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Junos® OS System Log Messages Reference
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The information in this document is current as of the date listed in the revision history.

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About This Guide

This preface provides the following guidelines for using the Junos® OS System Log Messages Reference:

- Junos OS Documentation and Release Notes on page lvii
- Objectives on page lviii
- Audience on page lviii
- Supported Platforms on page lviii
- Using the Examples in This Manual on page lix
- Documentation Conventions on page lx
- Documentation Feedback on page lxii
- Requesting Technical Support on page lxii

Junos OS Documentation and Release Notes

For a list of related Junos OS documentation, see http://www.juniper.net/techpubs/software/junos/.

If the information in the latest release notes differs from the information in the documentation, follow the Junos OS Release Notes.

To obtain the most current version of all Juniper Networks® technical documentation, see the product documentation page on the Juniper Networks website at http://www.juniper.net/techpubs/.

Juniper Networks supports a technical book program to publish books by Juniper Networks engineers and subject matter experts with book publishers around the world. These books go beyond the technical documentation to explore the nuances of network architecture, deployment, and administration using the Junos operating system (Junos OS) and Juniper Networks devices. In addition, the Juniper Networks Technical Library, published in conjunction with O'Reilly Media, explores improving network security, reliability, and availability using Junos OS configuration techniques. All the books are for sale at technical bookstores and book outlets around the world. The current list can be viewed at http://www.juniper.net/books.
Objectives

This reference describes system log messages generated by the Junos OS. Use the information to interpret system log messages and determine the appropriate corrective action for error conditions.

NOTE: For additional information about the Junos OS—either corrections to or information that might have been omitted from this guide—see the software release notes at http://www.juniper.net/.

Audience

This guide is designed for network administrators who are configuring and monitoring a Juniper Networks M Series, MX Series, T Series, EX Series, or J Series router or switch.

To use this reference, you need a broad understanding of networks in general, the Internet in particular, networking principles, and network configuration. You must also be familiar with one or more of the following Internet routing protocols:

- Border Gateway Protocol (BGP)
- Distance Vector Multicast Routing Protocol (DVMRP)
- Intermediate System-to-Intermediate System (IS-IS)
- Internet Control Message Protocol (ICMP) router discovery
- Internet Group Management Protocol (IGMP)
- Multiprotocol Label Switching (MPLS)
- Open Shortest Path First (OSPF)
- Protocol-independent Multicast (PIM)
- Resource Reservation Protocol (RSVP)
- Routing Information Protocol (RIP)
- Simple Network Management Protocol (SNMP)

Personnel operating the equipment must be trained and competent; must not conduct themselves in a careless, willfully negligent, or hostile manner; and must abide by the instructions provided by the documentation.

Supported Platforms

For the features described in this manual, the Junos OS currently supports the following platforms:

- J Series
- M Series
Using the Examples in This Manual

If you want to use the examples in this manual, you can use the `load merge` or the `load merge relative` command. These commands cause the software to merge the incoming configuration into the current candidate configuration. If the example configuration contains the top level of the hierarchy (or multiple hierarchies), the example is a full example. In this case, use the `load merge` command. If the example configuration does not start at the top level of the hierarchy, the example is a snippet. In this case, use the `load merge relative` command. These procedures are described in the following sections.

Merging a Full Example

To merge a full example, follow these steps:

1. From the HTML or PDF version of the manual, copy a configuration example into a text file, save the file with a name, and copy the file to a directory on your routing platform.

   For example, copy the following configuration to a file and name the file `ex-script.conf`. Copy the `ex-script.conf` file to the `/var/tmp` directory on your routing platform.

   ```
   system {
     scripts {
       commit {
         file ex-script.xsl;
       }
     }
   }

   interfaces {
     fxp0 {
       disable;
       unit 0 {
         family inet {
           address 10.0.0.1/24;
         }
       }
     }
   }
   ```

2. Merge the contents of the file into your routing platform configuration by issuing the `load merge` configuration mode command:

   ```
   [edit]
   user@host# load merge /var/tmp/ex-script.conf
   load complete
   ```
Merging a Snippet

To merge a snippet, follow these steps:

1. From the HTML or PDF version of the manual, copy a configuration snippet into a text file, save the file with a name, and copy the file to a directory on your routing platform.

   For example, copy the following snippet to a file and name the file `ex-script-snippet.conf`. Copy the `ex-script-snippet.conf` file to the `/var/tmp` directory on your routing platform.
   ```
   commit {
       file ex-script-snippet.xsl;
   }
   ```

2. Move to the hierarchy level that is relevant for this snippet by issuing the following configuration mode command:

   ```
   [edit]
   user@host# edit system scripts
   [edit system scripts]
   ```

3. Merge the contents of the file into your routing platform configuration by issuing the load merge relative configuration mode command:

   ```
   [edit system scripts]
   user@host# load merge relative /var/tmp/ex-script-snippet.conf
   load complete
   ```

   For more information about the load command, see the *Junos OS CLI User Guide*.

Documentation Conventions

Table 1 on page lx defines notice icons used in this guide.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="i" /></td>
<td>Informational note</td>
<td>Indicates important features or instructions.</td>
</tr>
<tr>
<td><img src="image" alt="警" /></td>
<td>Caution</td>
<td>Indicates a situation that might result in loss of data or hardware damage.</td>
</tr>
<tr>
<td><img src="image" alt="警告" /></td>
<td>Warning</td>
<td>Alerts you to the risk of personal injury or death.</td>
</tr>
<tr>
<td><img src="image" alt="警告" /></td>
<td>Laser warning</td>
<td>Alerts you to the risk of personal injury from a laser.</td>
</tr>
</tbody>
</table>

Table 2 on page lxi defines the text and syntax conventions used in this guide.
### Table 2: Text and Syntax Conventions

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bold text like this</strong></td>
<td>Represents text that you type.</td>
<td>To enter configuration mode, type the <code>configure</code> command:</td>
</tr>
<tr>
<td></td>
<td></td>
<td><code>user@host &gt; configure</code></td>
</tr>
<tr>
<td><strong>Fixed-width text like this</strong></td>
<td>Represents output that appears on the terminal screen.</td>
<td><code>user@host &gt; show chassis alarms</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td>No alarms currently active</td>
</tr>
<tr>
<td><strong>Italic text like this</strong></td>
<td>Introduces important new terms.</td>
<td>A policy term is a named structure that defines match conditions and actions.</td>
</tr>
<tr>
<td></td>
<td>Identifies book names.</td>
<td>- Junos OS System Basics Configuration Guide</td>
</tr>
<tr>
<td></td>
<td>Identifies RFC and Internet draft titles.</td>
<td>- RFC 1997, BGP Communities Attribute</td>
</tr>
<tr>
<td><strong>Italic text like this</strong></td>
<td>Represents variables (options for which you substitute a value) in commands or configuration statements.</td>
<td>Configure the machine’s domain name:</td>
</tr>
<tr>
<td></td>
<td></td>
<td><code>[edit]</code> <code>root@# set system domain-name domain-name</code></td>
</tr>
<tr>
<td><strong>Text like this</strong></td>
<td>Represents names of configuration statements, commands, files, and directories; interface names; configuration hierarchy levels; or labels on routing platform components.</td>
<td>To configure a stub area, include the <code>stub</code> statement at the <code>[edit protocols ospf area area-id]</code> hierarchy level.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The console port is labeled <code>CONSOLE</code></td>
</tr>
<tr>
<td><code>&lt; &gt;</code> (angle brackets)</td>
<td>Enclose optional keywords or variables.</td>
<td><code>stub &lt;default-metric metric &gt;;</code></td>
</tr>
<tr>
<td></td>
<td>(pipe symbol)</td>
<td>Indicates a choice between the mutually exclusive keywords or variables on either side of the symbol. The set of choices is often enclosed in parentheses for clarity.</td>
</tr>
<tr>
<td># (pound sign)</td>
<td>Indicates a comment specified on the same line as the configuration statement to which it applies.</td>
<td><code>rsvp { # Required for dynamic MPLS only</code></td>
</tr>
<tr>
<td>[ ] (square brackets)</td>
<td>Enclose a variable for which you can substitute one or more values.</td>
<td><code>community name members</code></td>
</tr>
<tr>
<td>Indentation and braces ( { } )</td>
<td>Identify a level in the configuration hierarchy.</td>
<td><code>[edit] routing-options { static { route default { nexthop address; retain; } } }</code></td>
</tr>
<tr>
<td>: (semicolon)</td>
<td>Identifies a leaf statement at a configuration hierarchy level.</td>
<td></td>
</tr>
</tbody>
</table>

### J-Web GUI Conventions
Table 2: Text and Syntax Conventions (continued)

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bold text like this</strong></td>
<td>Represents J-Web graphical user interface (GUI) items you click or select.</td>
<td>• In the Logical Interfaces box, select All Interfaces.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• To cancel the configuration, click Cancel.</td>
</tr>
<tr>
<td>&gt; (bold right angle bracket)</td>
<td>Separates levels in a hierarchy of J-Web selections.</td>
<td>In the configuration editor hierarchy, select Protocols&gt;ospf.</td>
</tr>
</tbody>
</table>

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. You can send your comments to techpubs-comments@juniper.net, or fill out the documentation feedback form at https://www.juniper.net/cgi-bin/docbugreport/. If you are using e-mail, be sure to include the following information with your comments:

- Document or topic name
- URL or page number
- Software release version (if applicable)

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need postsales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC Hours of Operation —The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: http://www.juniper.net/customers/support/
- Find product documentation: http://www.juniper.net/techpubs/
• Find solutions and answer questions using our Knowledge Base: http://kb.juniper.net/
• Download the latest versions of software and review release notes:
  http://www.juniper.net/customers/csc/software/
• Search technical bulletins for relevant hardware and software notifications:
  https://www.juniper.net/alerts/
• Join and participate in the Juniper Networks Community Forum:
  http://www.juniper.net/company/communities/
• Open a case online in the CSC Case Management tool: http://www.juniper.net/cm/

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: https://tools.juniper.net/SerialNumberEntitlementSearch/

Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

• Use the Case Management tool in the CSC at http://www.juniper.net/cm/.
• Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, visit us at http://www.juniper.net/support/requesting-support.html
PART 1

Overview

- Configuring System Log Messages on page 3
CHAPTER 1

Configuring System Log Messages

The Junos OS generates system log messages (also called syslog messages) to record events that occur on the routing platform, including the following:

- Routine operations, such as creation of an OSPF protocol adjacency or a user login into the configuration database
- Failure and error conditions, such as failure to access a configuration file or unexpected closure of a connection to a peer process
- Emergency or critical conditions, such as routing platform power-down due to excessive temperature

Each system log message identifies the Junos OS process that generated the message and briefly describes the operation or error that occurred. This reference provides more detailed information about each system log message and, when applicable, describes possible causes of the message and action you can take to correct error conditions.

NOTE: The configuration hierarchy in this chapter applies to Junos OS processes and libraries, not to the services on a PIC such as the Adaptive Services PIC. For information about configuring system logging for PIC services, see the Junos Services Interfaces Configuration Guide.

For information about interpreting messages generated by services on a PIC, see "Interpreting Messages Generated in Standard Format by Services on a PIC" on page 44.

This chapter discusses the following topics:

- System Logging Configuration Statements on page 4
- Minimum and Default System Logging Configuration on page 4
- Configuring System Logging for a Single-Chassis System on page 7
- Configuring System Logging for a Routing Matrix on page 28
- Displaying and Interpreting System Log Messages on page 37
- Getting Help About System Log Messages on page 48
System Logging Configuration Statements

To configure the routing platform to log system messages, include the `syslog` statement at the `[edit system]` hierarchy level:

```
[edit system]
syslog {
  archive {
    files number;
    size size;
    (world-readable | no-world-readable);
  }
  console {
    facility severity;
  }
  file filename {
    facility severity;
    explicit-priority;
    match "regular-expression";
    structured-data {
      brief;
    }
    archive {
      files number;
      size size;
      (world-readable | no-world-readable);
    }
  }
  host (hostname | other-routing-engine | scc-master) {
    facility severity;
    explicit-priority;
    facility-override facility;
    log-prefix string;
    match "regular-expression";
  }
  source-address source-address;
  time-format (year | millisecond | year millisecond);
  user (username | *) {
    facility severity;
    match "regular-expression";
  }
}
```

Minimum and Default System Logging Configuration

For information about the minimum and default system log settings on routing platforms that run the Junos OS, see the following sections:

- Minimum System Logging Configuration on page 5
- Default System Log Settings on page 5
Minimum System Logging Configuration

To record or view system log messages, you must include the `syslog` statement at the `[edit system]` hierarchy level. Specify at least one destination for the messages, as described in Table 3 on page 5.

Table 3: Minimum Configuration Statements for System Logging

<table>
<thead>
<tr>
<th>Destination</th>
<th>Minimum Configuration Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>File</td>
<td>[edit system syslog] \n  file filename { \n    facility severity; \n  }</td>
</tr>
<tr>
<td>Terminal session of one, several, or all users</td>
<td>[edit system syslog] \n  user (username</td>
</tr>
<tr>
<td>Routing platform console</td>
<td>[edit system syslog] \n  console { \n    facility severity; \n  }</td>
</tr>
<tr>
<td>Remote machine or the other Routing Engine on the routing platform</td>
<td>[edit system syslog] \n  host (hostname</td>
</tr>
</tbody>
</table>

Default System Log Settings

Table 4 on page 5 summarizes the default system log settings that apply to all platforms that run the Junos OS, and specifies which statement to include in the configuration to override the default value.

Table 4: Default System Logging Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Overriding Statement</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative facility for message forwarded to a remote machine</td>
<td>For <code>change-log</code>: <code>local6</code></td>
<td>[edit system syslog] \n  host hostname { \n    facility-override \n    facility; \n  }</td>
<td>“Changing the Alternative Facility Name for Remote Messages” on page 14</td>
</tr>
<tr>
<td>For <code>conflict-log</code>: <code>local5</code></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For <code>dfc</code>: <code>local1</code></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For <code>firewall</code>: <code>local3</code></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For <code>interactive-commands</code>: <code>local7</code></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For <code>pfe</code>: <code>local4</code></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 4: Default System Logging Settings (continued)

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Overriding Statement</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format of messages logged to a file</td>
<td>Standard Junos format, based on UNIX format</td>
<td>[edit system syslog] file filename { structured-data; }</td>
<td>“Logging Messages in Structured-Data Format” on page 11</td>
</tr>
<tr>
<td>Maximum number of files in the archived set</td>
<td>10</td>
<td>[edit system syslog] archive { files number; } file filename { archive { files number; } }</td>
<td>“Configuring the Size and Number of Log Files” on page 17</td>
</tr>
<tr>
<td>Maximum size of log file</td>
<td>J Series: 128 kilobytes (KB)</td>
<td>[edit system syslog] archive { size size; } file filename { archive { size size; } }</td>
<td>“Configuring the Size and Number of Log Files” on page 17</td>
</tr>
<tr>
<td></td>
<td>M Series, MX Series, and T Series: 1 megabyte (MB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TX Matrix: 10 MB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timestamp format</td>
<td>Month, date, hour, minute, second For example: Aug 21 12:36:30</td>
<td>[edit system syslog] time-format format;</td>
<td>“Including the Year or Millisecond in Timestamps” on page 22</td>
</tr>
<tr>
<td>Users who can read log files</td>
<td>root user and users with the Junos maintenance permission</td>
<td>[edit system syslog] archive { world-readable; } file filename { archive { world-readable; } }</td>
<td>“Configuring the Size and Number of Log Files” on page 17</td>
</tr>
</tbody>
</table>

In addition, the following messages are generated by default on specific platforms. To view either type of message, you must configure at least one destination for messages as described in “Minimum System Logging Configuration” on page 5.

- On J Series platforms, a message is logged when a process running in the kernel consumes 500 or more consecutive milliseconds of CPU time.

To log the message on an M Series, MX Series, or T Series platform, include the kernel info statement at the appropriate hierarchy level:

```plaintext
[edit system syslog]
(console | file filename | host destination | user username) {  
```
kernel info;
}

- The master Routing Engine on each T640 routing node in a routing matrix forwards to the master Routing Engine on the TX Matrix platform all messages with a severity of info and higher. This is equivalent to the following configuration statement included on the TX Matrix platform:

```
[edit system syslog]
host scc-master {
    any info;
}
```

### Configuring System Logging for a Single-Chassis System

The Junos system logging utility is similar to the UNIX `syslogd` utility. This section describes how to configure system logging for a single-chassis system that runs the Junos OS.

System logging configuration for the Junos-FIPS software and for Juniper Networks routing platforms in a Common Criteria environment is the same as for the Junos OS. For more information, see the Secure Configuration Guide for Common Criteria and Junos-FIPS.

Each system log message belongs to a facility, which groups together related messages. Each message is also preassigned a severity level, which indicates how seriously the triggering event affects routing platform functions. You always specify the facility and severity of the messages to include in the log. For more information, see “Specifying the Facility and Severity of Messages to Include in the Log” on page 9.

You direct messages to one or more destinations by including the appropriate statement at the `[edit system syslog]` hierarchy level:

- To a named file in a local file system, by including the `file` statement. See “Logging Messages in Structured-Data Format” on page 11.

- To the terminal session of one or more specific users (or all users) when they are logged in to the routing platform, by including the `user` statement. See “Directing Messages to a User Terminal” on page 12.

- To the routing platform console, by including the `console` statement. See “Directing Messages to the Console” on page 12.

- To a remote machine that is running the `syslogd` utility or to the other Routing Engine on the routing platform, by including the `host` statement. See “Directing Messages to a Remote Destination from the Routing Matrix” on page 34.
By default, messages are logged in a standard format, which is based on a UNIX system log format; for detailed information, see “Interpreting Messages Generated in Standard Format by a Junos Process or Library” on page 43, “Interpreting Messages Generated in Standard Format by Services on a PIC” on page 44, and “Interpreting Messages Generated in Structured-Data Format” on page 38. You can alter the content and format of logged messages in the following ways:

- In Junos 8.3 and later, you can log messages to a file in structured-data format instead of the standard Junos format. Structured-data format provides more information without adding significant length, and makes it easier for automated applications to extract information from the message. For more information, see “Logging Messages in Structured-Data Format” on page 11.

- A message’s facility and severity level are together referred to as its priority. By default, the standard Junos format for messages does not include priority information. (Structured-data format includes a priority code by default.) To include priority information in standard-format messages directed to a file or a remote destination, include the explicit-priority statement. For more information, see “Including Priority Information in System Log Messages” on page 18.

- By default, the standard Junos format for messages specifies the month, date, hour, minute, and second when the message was logged. You can modify the timestamp on standard-format messages to include the year, the millisecond, or both. (Structured-data format specifies the year and millisecond by default.) For more information, see “Including the Year or Millisecond in Timestamps” on page 22.

- When directing messages to a remote machine, you can specify the IP address that is reported in messages as their source. You can also configure features that make it easier to separate Junos-specific messages or messages generated on particular routing platforms. For more information, see “Directing Messages to a Remote Destination from the Routing Matrix” on page 34.

- The predefined facilities group together related messages, but you can also use regular expressions to specify more exactly which messages from a facility are logged to a file, a user terminal, or a remote destination. For more information, see “Using Regular Expressions to Refine the Set of Logged Messages” on page 23.

For a statement summary for the statements discussed in this chapter, see the Junos System Basics Configuration Guide.

For detailed information about configuring system logging, see the following sections:

- Specifying the Facility and Severity of Messages to Include in the Log on page 9
- Directing Messages to a Log File on page 11
- Logging Messages in Structured-Data Format on page 11
- Directing Messages to a User Terminal on page 12
- Directing Messages to the Console on page 12
- Directing Messages to a Remote Machine or the Other Routing Engine on page 13
- Configuring the Size and Number of Log Files on page 17
- Including Priority Information in System Log Messages on page 18
Specifying the Facility and Severity of Messages to Include in the Log

Each system log message belongs to a facility, which groups together messages that either are generated by the same source (such as a software process) or concern a similar condition or activity (such as authentication attempts). Each message is also preassigned a severity level, which indicates how seriously the triggering event affects routing platform functions.

When you configure logging for a facility and destination, you specify a severity level for each facility. Messages from the facility that are rated at that level or higher are logged to the following destination:

```
[edit system syslog]
(console | file filename | host destination | user username) {
  facility severity;
}
```

For more information about the destinations, see “Directing Messages to a User Terminal” on page 12, “Directing Messages to a User Terminal” on page 12, “Directing Messages to the Console” on page 12.

To log messages belonging to more than one facility to a particular destination, specify each facility and associated severity as a separate statement within the set of statements for the destination.

Table 5 on page 9 lists the facilities that you can specify in configuration statements at the [edit system syslog] hierarchy level.

### Table 5: Junos System Logging Facilities

<table>
<thead>
<tr>
<th>Facility</th>
<th>Type of Event or Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>any</td>
<td>All (messages from all facilities)</td>
</tr>
<tr>
<td>authorization</td>
<td>Authentication and authorization attempts</td>
</tr>
<tr>
<td>change-log</td>
<td>Changes to the Junos configuration</td>
</tr>
<tr>
<td>conflict-log</td>
<td>Specified configuration is invalid on the routing platform type</td>
</tr>
<tr>
<td>daemon</td>
<td>Actions performed or errors encountered by system processes</td>
</tr>
<tr>
<td>dfc</td>
<td>Events related to dynamic flow capture</td>
</tr>
<tr>
<td>firewall</td>
<td>Packet filtering actions performed by a firewall filter</td>
</tr>
</tbody>
</table>
Table 5: Junos System Logging Facilities *(continued)*

<table>
<thead>
<tr>
<th>Facility</th>
<th>Type of Event or Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>ftp</td>
<td>Actions performed or errors encountered by the FTP process</td>
</tr>
<tr>
<td>interactive-commands</td>
<td>Commands issued at the Junos OS command-line interface (CLI) prompt or invoked by a client application such as a Junos XML protocol or NETCONF client</td>
</tr>
<tr>
<td>kernel</td>
<td>Actions performed or errors encountered by the Junos kernel</td>
</tr>
<tr>
<td>pfe</td>
<td>Actions performed or errors encountered by the Packet Forwarding Engine</td>
</tr>
<tr>
<td>user</td>
<td>Actions performed or errors encountered by user-space processes</td>
</tr>
</tbody>
</table>

Table 6 on page 10 lists the severity levels that you can specify in configuration statements at the `[edit system syslog]` hierarchy level. The levels from `emergency` through `info` are in order from highest severity (greatest effect on functioning) to lowest.

Unlike the other severity levels, the `none` level disables logging of a facility instead of indicating how seriously a triggering event affects routing functions. For more information, see “Disabling Logging of a Facility” on page 25.

Table 6: System Log Message Severity Levels

<table>
<thead>
<tr>
<th>Severity Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>any</td>
<td>Includes all severity levels</td>
</tr>
<tr>
<td>none</td>
<td>Disables logging of the associated facility to a destination</td>
</tr>
<tr>
<td>emergency</td>
<td>System panic or other condition that causes the routing platform to stop functioning</td>
</tr>
<tr>
<td>alert</td>
<td>Conditions that require immediate correction, such as a corrupted system database</td>
</tr>
<tr>
<td>critical</td>
<td>Critical conditions, such as hard drive errors</td>
</tr>
<tr>
<td>error</td>
<td>Error conditions that generally have less serious consequences than errors in the emergency, alert, and critical levels</td>
</tr>
<tr>
<td>warning</td>
<td>Conditions that warrant monitoring</td>
</tr>
<tr>
<td>notice</td>
<td>Conditions that are not errors but might warrant special handling</td>
</tr>
<tr>
<td>info</td>
<td>Events or nonerror conditions of interest</td>
</tr>
</tbody>
</table>
Directing Messages to a Log File

To direct system log messages to a file in the `/var/log` directory of the local Routing Engine, include the `file` statement at the `[edit system syslog]` hierarchy level:

```
[edit system syslog]
file filename {
  facility severity;
  explicit-priority;
  match "regular-expression";
  structured-data {
    brief;
  }
  archive {
    files number :
    size size;
    (world-readable | no-world-readable);
  }
}
```

For the list of facilities and severity levels, see “Specifying the Facility and Severity of Messages to Include in the Log” on page 9.

To prevent log files from growing too large, the Junos OS system logging utility by default writes messages to a sequence of files of a defined size. By including the `archive` statement, you can configure the number of files, their maximum size, and who can read them, either for all log files or for a certain log file. For more information, see “Configuring the Size and Number of Log Files” on page 17.

For information about the following statements, see the indicated sections:

- **match**—See “Using Regular Expressions to Refine the Set of Logged Messages” on page 23.
- **structured-data**—See “Logging Messages in Structured-Data Format” on page 11.

Logging Messages in Structured-Data Format

You can log messages to a file in structured-data format instead of the standard Junos format. Structured-data format provides more information without adding significant length, and makes it easier for automated applications to extract information from a message.


To output messages to a file in structured-data format, include the `structured-data` statement at the `[edit system syslog file filename]` hierarchy level:
[edit system syslog file filename]
facility severity;
structured-data {
  brief;
}

The optional brief statement suppresses the English-language text that appears by default at the end of a message to describe the error or event. For information about the fields in a structured-data format message, see the Junos OS System Log Messages Reference.

The structured format is used for all messages logged to the file that are generated by a Junos process or software library.

NOTE: If you include either or both of the explicit-priority and time-format statements along with the structured-data statement, they are ignored. These statements apply to the standard Junos system log format, not to structured-data format.

Related Documentation
- Single-Chassis System Logging Configuration Overview
- Examples: Configuring System Logging

Directing Messages to a User Terminal

To direct system log messages to the terminal session of one or more specific users (or all users) when they are logged in to the local Routing Engine, include the user statement at the [edit system syslog] hierarchy level:

[edit system syslog]
user (username | *) {
  facility severity;
  match "regular-expression";
}

Specify one or more Junos OS usernames, separating multiple values with spaces, or use the asterisk (*) to indicate all users who are logged in to the local Routing Engine.

For the list of facilities and severity levels, see “Specifying the Facility and Severity of Messages to Include in the Log” on page 9. For information about the match statement, see “Using Regular Expressions to Refine the Set of Logged Messages” on page 23.

Directing Messages to the Console

To direct system log messages to the console of the local Routing Engine, include the console statement at the [edit system syslog] hierarchy level:

[edit system syslog]
console {
  facility severity;
}
For the list of facilities and severity levels, see “Specifying the Facility and Severity of Messages to Include in the Log” on page 9.

Directing Messages to a Remote Machine or the Other Routing Engine

To direct system log messages to a remote machine or to the other Routing Engine on the routing platform, include the `host` statement at the `[edit system syslog]` hierarchy level:

```
[edit system syslog]
host (hostname | other-routing-engine) {
  facility severity;
  explicit-priority;
  facility-override facility;
  log-prefix string;
  match "regular-expression";
}
```

To direct system log messages to a remote machine, include the `host hostname` statement to specify the remote machine’s IP version 4 (IPv4) address, IP version 6 (IPv6) address, or fully qualified hostname. The remote machine must be running the standard `syslogd` utility. We do not recommend directing messages to another Juniper Networks routing platform. In each system log message directed to the remote machine, the hostname of the local Routing Engine appears after the timestamp to indicate that it is the source for the message.

To direct system log messages to the other Routing Engine on a routing platform with two Routing Engines installed and operational, include the `host other-routing-engine` statement. The statement is not automatically reciprocal, so you must include it in each Routing Engine’s configuration if you want them to direct messages to each other. In each message directed to the other Routing Engine, the string `re0` or `re1` appears after the timestamp to indicate the source for the message.

For the list of facilities and severity levels to configure under the `host` statement, see “Specifying the Facility and Severity of Messages to Include in the Log” on page 9.

To record facility and severity level information in each message, include the `explicit-priority` statement. For more information, see “Including Priority Information in System Log Messages” on page 18.

For information about the `match` statement, see “Using Regular Expressions to Refine the Set of Logged Messages” on page 23.

When directing messages to remote machines, you can include the `source-address` statement to specify the IP address of the routing platform that is reported in the messages as their source. In each host statement, you can also include the `facility-override` statement to assign an alternative facility and the `log-prefix` statement to add a string to each message. For more information, see the following sections:

- Specifying an Alternative Source Address for System Log Messages on page 14
- Changing the Alternative Facility Name for Remote Messages on page 14
Specifying an Alternative Source Address for System Log Messages

To specify the routing platform that is reported in system log messages as their source when they are directed to a remote machine, include the `source-address` statement at the `[edit system syslog]` hierarchy level:

```
[edit system syslog]
source-address source-address;
```

`source-address` is a valid IPv4 or IPv6 address configured on one of the routing platform interfaces. The address is reported in the messages directed to all remote machines specified in `host hostname` statements at the `[edit system syslog]` hierarchy level, but not in messages directed to the other Routing Engine.

Changing the Alternative Facility Name for Remote Messages

Some facilities assigned to messages logged on the local routing platform have Junos-specific names (see Table Junos System Logging Facilities in "Specifying the Facility and Severity of Messages to Include in the Log" on page 9. In the recommended configuration, a remote machine designated at the `[edit system syslog host hostname]` hierarchy level is not a Juniper Networks routing platform, so its `syslogd` utility cannot interpret the Junos-specific names. To enable the standard `syslogd` utility to handle messages from these facilities, when messages are directed to a remote machine a standard `localX` facility name is used instead of the Junos-specific facility name.

Table 7 on page 14 lists the default alternative facility name used for each Junos-specific facility name. For facilities that are not listed, the default alternative name is the same as the local facility name.

Table 7: Default Facilities for Messages Directed to a Remote Destination

<table>
<thead>
<tr>
<th>Junos-Specific Local Facility</th>
<th>Default Facility When Directed to Remote Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td>change-log</td>
<td><code>local6</code></td>
</tr>
<tr>
<td>conflict-log</td>
<td><code>local5</code></td>
</tr>
<tr>
<td>dfc</td>
<td><code>local1</code></td>
</tr>
<tr>
<td>firewall</td>
<td><code>local3</code></td>
</tr>
<tr>
<td>interactive-commands</td>
<td><code>local7</code></td>
</tr>
<tr>
<td>pfe</td>
<td><code>local4</code></td>
</tr>
</tbody>
</table>

The `syslogd` utility on a remote machine handles all messages that belong to a facility in the same way, regardless of the source of the message (the Juniper Networks routing
platform or the remote machine itself). For example, the following statements in the configuration of the routing platform called local-router direct messages from the authorization facility to the remote machine called monitor.mycompany.com:

```
[edit system syslog]
  host monitor.mycompany.com {
    authorization info;
  }
```

The default alternative facility for the local authorization facility is also authorization. If the syslogd utility on monitor is configured to write messages belonging to the authorization facility to the file /var/log/auth-attempts, the file contains both the messages generated when users log in to local-router and the messages generated when users log in to monitor. Although the name of the source machine appears in each system log message, the mixing of messages from multiple machines can make it more difficult to analyze the contents of the auth-attempts file.

To make it easier to separate the messages from each source, you can assign an alternative facility to all messages generated on local-router when they are directed to monitor. You can then configure the syslogd utility on monitor to write messages with the alternative facility to a different file from messages generated on monitor itself.

To change the facility used for all messages directed to a remote machine, include the facility-override statement at the [edit system syslog host hostname] hierarchy level:

```
[edit system syslog host hostname]
  facility severity;
  facility-override facility;
```

In general, it makes sense to specify an alternative facility that is not already in use on the remote machine, such as one of the localX facilities. On the remote machine, you must also configure the syslogd utility to handle the messages in the desired manner.

Table 8 on page 15 lists the facilities that you can specify in the facility-override statement.

### Table 8: Facilities for the facility-override Statement

<table>
<thead>
<tr>
<th>Facility</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>authorization</td>
<td>Authentication and authorization attempts</td>
</tr>
<tr>
<td>daemon</td>
<td>Actions performed or errors encountered by system processes</td>
</tr>
<tr>
<td>ftp</td>
<td>Actions performed or errors encountered by the FTP process</td>
</tr>
<tr>
<td>kernel</td>
<td>Actions performed or errors encountered by the Junos kernel</td>
</tr>
<tr>
<td>local0</td>
<td>Local facility number 0</td>
</tr>
<tr>
<td>local1</td>
<td>Local facility number 1</td>
</tr>
<tr>
<td>local2</td>
<td>Local facility number 2</td>
</tr>
<tr>
<td>local3</td>
<td>Local facility number 3</td>
</tr>
</tbody>
</table>
Table 8: Facilities for the facility-override Statement (continued)

<table>
<thead>
<tr>
<th>Facility</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>local4</td>
<td>Local facility number 4</td>
</tr>
<tr>
<td>local5</td>
<td>Local facility number 5</td>
</tr>
<tr>
<td>local6</td>
<td>Local facility number 6</td>
</tr>
<tr>
<td>local7</td>
<td>Local facility number 7</td>
</tr>
<tr>
<td>user</td>
<td>Actions performed or errors encountered by user-space processes</td>
</tr>
</tbody>
</table>

We do not recommend including the `facility-override` statement at the `[edit system syslog host other-routing-engine]` hierarchy level. It is not necessary to use alternative facility names when directing messages to the other Routing Engine, because its Junos system logging utility can interpret the Junos-specific names.

Examples: Assigning an Alternative Facility

Log all messages generated on the local routing platform at the error level or higher to the `local0` facility on the remote machine called `monitor.mycompany.com`:

```
[edit system syslog]
  host monitor.mycompany.com {
    any error;
    facility-override local0;
  }
```

Configure routing platforms located in California and routing platforms located in New York to send messages to a single remote machine called `central-logger.mycompany.com`. The messages from California are assigned alternative facility `local0` and the messages from New York are assigned to alternative facility `local2`.

- Configure California routing platforms to aggregate messages in the `local0` facility:

  ```
  [edit system syslog]
  host central-logger.mycompany.com {
    change-log info;
    facility-override local0;
  }
  ```

- Configure New York routing platforms to aggregate messages in the `local2` facility:

  ```
  [edit system syslog]
  host central-logger.mycompany.com {
    change-log info;
    facility-override local2;
  }
  ```

On `central-logger`, you can then configure the system logging utility to write messages from the `local0` facility to the file `california-config` and the messages from the `local2` facility to the file `new-york-config`. 
Related Documentation

- Junos OS System Log Alternate Facilities for Remote Logging

Adding a Text String to System Log Messages

To add a text string to every system log message directed to a remote machine or to the other Routing Engine, include the `log-prefix` statement at the `[edit system syslog host]` hierarchy level:

```plaintext
[edit system syslog host (hostname | other-routing-engine)]
facility severity;
log-prefix string;
```

The string can contain any alphanumerical or special character except the equal sign (=) and the colon (:). It also cannot include the space character; do not enclose the string in quotation marks (" ") in an attempt to include spaces in it.

The Junos system logging utility automatically appends a colon and a space to the specified string. The string is inserted after the identifier for the Routing Engine that generated the message.

Adding a String

Add the string M120 to all messages to indicate that the router is an M120 router, and direct the messages to the remote machine `hardware-logger.mycompany.com`:

```plaintext
[edit system syslog]
host hardware-logger.mycompany.com {
    any info;
    log-prefix M120;
}
```

When these configuration statements are included on an M120 router called `origin1`, a message in the system log on `hardware-logger.mycompany.com` looks like the following:

```
Mar 9 17:33:23 origin1 M120: mgd[477]: UI_CMDLINE_READ_LINE: user 'root', command 'run show version'
```

Configuring the Size and Number of Log Files

To prevent log files from growing too large, the Junos system logging utility by default writes messages to a sequence of files of a defined size. The files in the sequence are referred to as `archive` files to distinguish them from the `active` file to which messages are currently being written. The default maximum size depends on the platform type:

- 128 kilobytes (KB) for J Series Services Routers
- 1 megabyte (MB) for M Series, MX Series, and T Series routing platforms

When an active log file called `logfile` reaches the maximum size, the logging utility closes the file, compresses it, and names the compressed archive file `logfile.0.gz`. The logging utility then opens and writes to a new active file called `logfile`. When the new `logfile` reaches the configured maximum size, `logfile.0.gz` is renamed `logfile.1.gz`, and the new `logfile` is closed, compressed, and renamed `logfile.0.gz`. By default, the logging utility creates up to 10 archive files in this manner. When the maximum number of archive files is reached, the oldest file is deleted.
is reached, each time the active file reaches the maximum size the contents of the oldest archive file are lost (overwritten by the next oldest file). The logging utility by default also limits the users who can read log files to the root user and users who have the Junos maintenance permission.

You can include the archive statement to change the maximum size of each file, how many archive files are created, and who can read log files. To configure values that apply to all log files, include the archive statement at the [edit system syslog] hierarchy level:

```
[edit system syslog]
archive {
  files number;
  size size;
  (world-readable | no-world-readable);
}
```

To configure values that apply to a particular log file, include the archive statement at the [edit system syslog file filename] hierarchy level:

```
[edit system syslog file filename]
facility severity;
archive {
  files number;
  size size;
  (world-readable | no-world-readable);
}
```

files number specifies the number of files to create before the oldest file is overwritten. The value can be from 1 through 1000.

size size specifies the maximum size of each file. The value can be from 64 KB (64k) through 1 gigabyte (1g); to represent megabytes, use the letter m after the integer. There is no space between the digits and the k, m, or g units letter.

world-readable enables all users to read log files. To restore the default permissions, include the no-world-readable statement.

**Including Priority Information in System Log Messages**

A message’s facility and severity level are together referred to as its priority. By default, messages logged in the standard Junos format do not include information about priority. To include priority information in standard-format messages directed to a file, include the explicit-priority statement at the [edit system syslog file filename] hierarchy level:

```
[edit system syslog file filename]
facility severity;
explicit-priority;
```
NOTE: Messages logged in structured-data format include priority information by default (structured-data format is available in Junos OS Release 8.3 and later and for file destinations only). If you include the structured-data statement at the [edit system syslog file filename] hierarchy level along with the explicit-priority statement, the explicit-priority statement is ignored and messages are logged in structured-data format.

For information about the structured-data statement, see "Logging Messages in Structured-Data Format" on page 11. For information about the contents of a structured-data message, see “Displaying a Log File from a Single-Chassis System” on page 37.

To include priority information in messages directed to a remote machine or the other Routing Engine, include the explicit-priority statement at the [edit system syslog host (hostname | other-routing-engine)] hierarchy level:

```
[edit system syslog host (hostname | other-routing-engine)]
facility severity;
explicit-priority;
```

The priority recorded in a message always indicates the original, local facility name. If the facility-override statement is included for messages directed to a remote destination, the Junos system logging utility still uses the alternative facility for the messages themselves when directing them to the remote destination. For more information about alternative facilities, see “Changing the Alternative Facility Name for Remote Messages” on page 14.

When the explicit-priority statement is included, the Junos logging utility prepends codes for the facility name and severity level to the message tag name, if the message has one:

```
FACILITY-severity[-TAG]
```

(The tag is a unique identifier assigned to some Junos system log messages; for more information, see “Interpreting Messages Generated in Structured-Data Format” on page 38, “Interpreting Messages Generated in Standard Format by Services on a PIC” on page 44, “Interpreting Messages Generated in Standard Format by a Junos Process or Library” on page 43, and “Displaying and Interpreting System Log Message Descriptions” on page 49.)

Table 9 on page 20 lists the facility codes that can appear in system log messages and maps them to facility names.

NOTE: If the second column in Table 9 on page 20 does not include the Junos facility name for a code, the facility cannot be included in a statement at the [edit system syslog] hierarchy level. The Junos OS might use the facilities in Table 9 on page 20—and others that are not listed—when reporting on internal operations.
<table>
<thead>
<tr>
<th>Code</th>
<th>Junos Facility Name</th>
<th>Type of Event or Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTH</td>
<td>authorization</td>
<td>Authentication and authorization attempts</td>
</tr>
<tr>
<td>AUTHPRIV</td>
<td></td>
<td>Authentication and authorization attempts that can be viewed by superusers only</td>
</tr>
<tr>
<td>CHANGE</td>
<td>change-log</td>
<td>Changes to the Junos configuration</td>
</tr>
<tr>
<td>CONFLICT</td>
<td>conflict-log</td>
<td>Specified configuration is invalid on the routing platform type</td>
</tr>
<tr>
<td>CONSOLE</td>
<td></td>
<td>Messages written to /dev/console by the kernel console output driver</td>
</tr>
<tr>
<td>CRON</td>
<td></td>
<td>Actions performed or errors encountered by the cron process</td>
</tr>
<tr>
<td>DAEMON</td>
<td>daemon</td>
<td>Actions performed or errors encountered by system processes</td>
</tr>
<tr>
<td>DFC</td>
<td>dfc</td>
<td>Actions performed or errors encountered by the dynamic flow capture process</td>
</tr>
<tr>
<td>FIREWALL</td>
<td>firewall</td>
<td>Packet filtering actions performed by a firewall filter</td>
</tr>
<tr>
<td>FTP</td>
<td>ftp</td>
<td>Actions performed or errors encountered by the FTP process</td>
</tr>
<tr>
<td>INTERACT</td>
<td>interactive-commands</td>
<td>Commands issued at the Junos OS CLI prompt or invoked by a client application such as a Junos XML protocol or NETCONF client</td>
</tr>
<tr>
<td>KERN</td>
<td>kernel</td>
<td>Actions performed or errors encountered by the Junos kernel</td>
</tr>
<tr>
<td>NTP</td>
<td></td>
<td>Actions performed or errors encountered by the Network Time Protocol (NTP) process</td>
</tr>
</tbody>
</table>
Table 9: Facility Codes Reported in Priority Information (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Junos Facility Name</th>
<th>Type of Event or Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFE</td>
<td>pfe</td>
<td>Actions performed or errors encountered by the Packet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Forwarding Engine</td>
</tr>
<tr>
<td></td>
<td>SYSLOG</td>
<td>Actions performed or errors encountered by the Junos system</td>
</tr>
<tr>
<td></td>
<td></td>
<td>logging utility</td>
</tr>
<tr>
<td>USER</td>
<td>user</td>
<td>Actions performed or errors encountered by user-space</td>
</tr>
<tr>
<td></td>
<td></td>
<td>processes</td>
</tr>
</tbody>
</table>

Table 10 on page 21 lists the numerical severity codes that can appear in system log messages and maps them to severity levels.

Table 10: Numerical Codes for Severity Levels Reported in Priority Information

<table>
<thead>
<tr>
<th>Numerical Code</th>
<th>Severity Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>emergency</td>
<td>System panic or other condition that causes the routing platform to stop</td>
</tr>
<tr>
<td></td>
<td></td>
<td>functioning</td>
</tr>
<tr>
<td>1</td>
<td>alert</td>
<td>Conditions that require immediate correction, such as a corrupted system</td>
</tr>
<tr>
<td></td>
<td></td>
<td>database</td>
</tr>
<tr>
<td>2</td>
<td>critical</td>
<td>Critical conditions, such as hard drive errors</td>
</tr>
<tr>
<td>3</td>
<td>error</td>
<td>Error conditions that generally have less serious consequences than errors</td>
</tr>
<tr>
<td></td>
<td></td>
<td>in the emergency, alert, and critical levels</td>
</tr>
<tr>
<td>4</td>
<td>warning</td>
<td>Conditions that warrant monitoring</td>
</tr>
<tr>
<td>5</td>
<td>notice</td>
<td>Conditions that are not errors but might warrant special handling</td>
</tr>
<tr>
<td>6</td>
<td>info</td>
<td>Events or nonerror conditions of interest</td>
</tr>
</tbody>
</table>
Table 10: Numerical Codes for Severity Levels Reported in Priority Information (continued)

<table>
<thead>
<tr>
<th>Numerical Code</th>
<th>Severity Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>debug</td>
<td>Software debugging messages (these appear only if a technical support representative has instructed you to configure this severity level)</td>
</tr>
</tbody>
</table>

In the following example, the **CHASSISD_PARSE_COMPLETE** message belongs to the **daemon** facility and is assigned severity **info (6)**:

```
Aug 21 12:36:30 router1 chassisd[522]:

%DAEMON-6-CHASSISD_PARSE_COMPLETE: Using new configuration
```

When the **explicit-priority** statement is not included, the priority does not appear in the message:

```
Aug 21 12:36:30 router1 chassisd[522]: CHASSISD_PARSE_COMPLETE: Using new configuration
```

For more information about message formatting, see “Displaying and Interpreting System Log Message Descriptions” on page 49.

Including the Year or Millisecond in Timestamps

By default, the timestamp recorded in a standard-format system log message specifies the month, date, hour, minute, and second when the message was logged, as in the following example:

```
Aug 21 12:36:30
```

To include the year, the millisecond, or both in the timestamp, include the **time-format** statement at the [edit system syslog] hierarchy level:

```
edit system syslog
time-format (year | millisecond | year millisecond);
```

The modified timestamp is used in messages directed to each destination configured by a **file**, **console**, or **user** statement at the [edit system syslog] hierarchy level, but not to destinations configured by a **host** statement.

The following example illustrates the format for a timestamp that includes both the millisecond (401) and the year (2006):

```
Aug 21 12:36:30.401 2006
```
NOTE: Messages logged in structured-data format (available in Junos OS Release 8.3 and later for file destinations) include the year and millisecond by default. If you include the structured-data statement at the \[edit system syslog file filename\] hierarchy level along with the time-format statement, the time-format statement is ignored and messages are logged in structured-data format.

For information about the structured-data statement, see "Logging Messages in Structured-Data Format" on page 11. For information about the information in a structured-data message, see "Displaying a Log File from a Single-Chassis System" on page 37.

Using Regular Expressions to Refine the Set of Logged Messages

The predefined facilities group together related messages, but you can also use regular expression matching to specify more exactly which messages from a facility are logged to a file, a user terminal, or a remote destination.

To specify the text string that must (or must not) appear in a message for the message to be logged to a destination, include the match statement and specify the regular expression which the text string must match:

```
match "regular-expression";
```

You can include this statement at the following hierarchy levels:

- \[edit system syslog file filename\] (for a file)
- \[edit system syslog user (username [*])\] (for a specific user session or for all user sessions on a terminal)
- \[edit system syslog host (hostname | other-routing-engine)\] (for a remote destination)

In specifying the regular expression, use the notation defined in POSIX Standard 1003.2 for extended (modern) UNIX regular expressions. Explaining regular expression syntax is beyond the scope of this document, but POSIX standards are available from the Institute of Electrical and Electronics Engineers (IEEE, http://www.ieee.org).

Table 11 on page 23 specifies which character or characters are matched by some of the regular expression operators that you can use in the match statement. In the descriptions, the term term refers to either a single alphanumeric character or a set of characters enclosed in square brackets, parentheses, or braces.

NOTE: The match statement is not case-sensitive.

### Table 11: Regular Expression Operators for the match Statement

<table>
<thead>
<tr>
<th>Operator</th>
<th>Matches</th>
</tr>
</thead>
<tbody>
<tr>
<td>. (period)</td>
<td>One instance of any character except the space.</td>
</tr>
</tbody>
</table>
Table 11: Regular Expression Operators for the match Statement (continued)

<table>
<thead>
<tr>
<th>Operator</th>
<th>Matches</th>
</tr>
</thead>
<tbody>
<tr>
<td>* (asterisk)</td>
<td>Zero or more instances of the immediately preceding term.</td>
</tr>
<tr>
<td>+ (plus sign)</td>
<td>One or more instances of the immediately preceding term.</td>
</tr>
<tr>
<td>? (question mark)</td>
<td>Zero or one instance of the immediately preceding term.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>(pipe)</td>
<td>One of the terms that appears on either side of the pipe operator.</td>
</tr>
<tr>
<td>! (exclamation point)</td>
<td>Any string except the one specified by the expression, when the exclamation point appears at the start of the expression. Use of the exclamation point is Junos OS-specific.</td>
</tr>
<tr>
<td>` (caret)</td>
<td>Start of a line, when the caret appears outside square brackets.</td>
</tr>
<tr>
<td></td>
<td>One instance of any character that does not follow it within square brackets, when the caret is the first character inside square brackets.</td>
</tr>
<tr>
<td>$ (dollar sign)</td>
<td>End of a line.</td>
</tr>
<tr>
<td>[] (paired square brackets)</td>
<td>One instance of one of the enclosed alphanumeric characters. To indicate a range of characters, use a hyphen (-) to separate the beginning and ending characters of the range. For example, [a-z0-9] matches any letter or number.</td>
</tr>
<tr>
<td>() (paired parentheses)</td>
<td>One instance of the evaluated value of the enclosed term. Parentheses are used to indicate the order of evaluation in the regular expression.</td>
</tr>
</tbody>
</table>

Using Regular Expressions

Filter messages that belong to the interactive-commands facility, directing those that include the string configure to the terminal of the root user:

```
[edit system syslog]
user root {
    interactive-commands any;
    match ".*configure.*";
}
```

Messages like the following appear on the root user’s terminal when a user issues a configure command to enter configuration mode:

```
timestamp router-name mgd[PID]: UI_CMDLINE_READ_LINE: User 'user', command 'configure private'
```

Filter messages that belong to the daemon facility and have a severity of error or higher, directing them to the file /var/log/process-errors. Omit messages generated by the SNMP process (snmpd), instead directing them to the file /var/log/snmpd-errors:

```
[edit system syslog]
file process-errors {
    daemon error;
    match "!(.*snmpd.*)";
}
```

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Disabling Logging of a Facility

To disable the logging of messages that belong to a particular facility, include the `facility none` statement in the configuration. This statement is useful when, for example, you want to log messages that have the same severity level and belong to all but a few facilities. Instead of including a statement for each facility you want to log, you can include the `any severity` statement and then a `facility none` statement for each facility that you do not want to log. For example, the following logs all messages at the error level or higher to the console, except for messages from the `daemon` and `kernel` facilities. Messages from those facilities are logged to the file `/var/log/internals` instead:

```
[edit system syslog]
console {
  any error;
  daemon none;
  kernel none;
}
file internals {
  daemon info;
  kernel info;
}
```

Examples: Configuring System Logging

Log messages about all commands entered by users at the CLI prompt or invoked by client applications such as Junos XML protocol or NETCONF clients, and all authentication or authorization attempts, both to the file `cli-commands` and to the terminal of any user who is logged in:

```
[edit system]
syslog {
  file cli-commands {
    interactive-commands info;
    authorization info;
  }
  user * {
    interactive-commands info;
    authorization info;
  }
}
```
Log all changes in the state of alarms to the file /var/log/alarms:

[edit system]
syslog {
  file alarms {
    kernel warning;
  }
}

Configure the handling of messages of various types, as described in the comments. Information is logged to two files, to the terminal of user alex, to a remote machine, and to the console:

[edit system]
syslog {
  /* write all security-related messages to file /var/log/security */
  file security {
    authorization info;
    interactive-commands info;
  }
  /* write messages about potential problems to file /var/log/messages: */
  /* messages from “authorization” facility at level “notice” and above, */
  /* messages from all other facilities at level “warning” and above */
  file messages {
    authorization notice;
    any warning;
  }
  /* write all messages at level “critical” and above to terminal of user “alex” if */
  /* that user is logged in */
  user alex {
    any critical;
  }
  /* write all messages from the “daemon” facility at level “info” and above, and */
  /* messages from all other facilities at level “warning” and above, to the */
  /* machine monitor.mycompany.com */
  host monitor.mycompany.com {
    daemon info;
    any warning;
  }
  /* write all messages at level “error” and above to the system console */
  console {
    any error;
  }
}

Configure the handling of messages generated when users issue Junos OS CLI commands, by specifying the interactive-commands facility at the following severity levels:

- **info**—Logs a message when users issue any command at the CLI operational or configuration mode prompt. The example writes the messages to the file /var/log/user-actions.
- **notice**—Logs a message when users issue the configuration mode commands rollback and commit. The example writes the messages to the terminal of user philip.
- **warning**—Logs a message when users issue a command that restarts a software process. The example writes the messages to the console.

    [edit system]
    syslog {
        file user-actions {
            interactive-commands info;
        }
        user philip {
            interactive-commands notice;
        }
        console {
            interactive-commands warning;
        }
    }
Configuring System Logging for a Routing Matrix

This section explains how to configure system logging for the T640 Internet routing nodes and TX Matrix platform in a routing matrix. It assumes you are familiar with system logging for single-chassis systems. For more information about routing matrixes, see the Junos System Basics Configuration Guide and the TX Matrix Platform Hardware Guide.

To configure system logging for all platforms in a routing matrix, include the `syslog` statement at the [edit system] hierarchy level on the TX Matrix platform. The `syslog` statement applies to every platform in the routing matrix.

```plaintext
[edit system]
syslog {
    archive {
        files number;
        size size;
        (world-readable | no-world-readable);
    }
    console {
        facility severity;
    }
    file filename {
        facility severity;
        explicit-priority;
        match "regular-expression";
        structured-data {
            brief;
        }
    }
    archive {
        files number;
        size size;
        (world-readable | no-world-readable);
    }
    host (hostname | other-routing-engine | scc-master) {
        facility severity;
        explicit-priority;
        facility-override facility;
        log-prefix string;
        match "regular-expression";
    }
    source-address source-address;
    time-format (year | millisecond | year millisecond);
    user (username | *) {
        facility severity;
        match "regular-expression";
    }
    }
```

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When included in the configuration on the TX Matrix platform, the following configuration statements have the same effect as on a single-chassis system, except that they apply to every platform in the routing matrix:

- **archive**—Sets the size and number of log files archived on each platform in the routing matrix. See “Configuring the Size and Number of Log Files” on page 17.
- **console**—Directs the specified messages to the console of each platform in the routing matrix. See “Directing Messages to the Console” on page 12.
- **file**—Directs the specified messages to a file of the same name on each platform in the routing matrix. See “Logging Messages in Structured-Data Format” on page 11.
- **match**—Limits the set of messages logged to a destination to those that contain (or do not contain) a text string matching a regular expression. See “Using Regular Expressions to Refine the Set of Logged Messages” on page 23.
- **source-address**—Sets the IP address of the routing platform to report in system log messages as the message source, when the messages are directed to the remote machines specified in all **host hostname** statements at the [edit system syslog] hierarchy level, for each platform in the routing matrix. The address is not reported in messages directed to the other Routing Engine on each platform or forwarded to the TX Matrix platform by the T640 routing nodes. See “Specifying an Alternative Source Address for System Log Messages” on page 14.
- **structured-data**—Writes messages to a file in structured-data format. See “Logging Messages in Structured-Data Format” on page 11.
- **time-format**—Adds the millisecond, year, or both to the timestamp in each standard-format message. See “Including the Year or Millisecond in Timestamps” on page 22.
- **user**—Directs the specified messages to the terminal session of one or more specified users on each platform in the routing matrix that they are logged in to. See “Directing Messages to a User Terminal” on page 12.

The effect of the other statements differs somewhat for a routing matrix than for a single-chassis system. For more information, see the following sections:

- Configuring Message Forwarding in the Routing Matrix on page 29
- Configuring Optional Features for Forwarded Messages on page 33
- Directing Messages to a Remote Destination from the Routing Matrix on page 34
- Configuring System Logging Differently on Each Platform on page 35

### Configuring Message Forwarding in the Routing Matrix

By default, the master Routing Engine on each T640 routing node forwards to the master Routing Engine on the TX Matrix platform all messages from all facilities with severity
info and higher. To change the facility, the severity level, or both, include the **host scc-master** statement at the **[edit system syslog]** hierarchy level on the TX Matrix platform:

```plaintext
[edit system syslog]
host scc-master {
  facility severity;
}
```

To disable message forwarding, set the facility to **any** and the severity level to **none**:

```plaintext
[edit system syslog]
host scc-master {
  any none;
}
```

In either case, the setting applies to all T640 routing nodes in the routing matrix.

To capture the messages forwarded by the T640 routing nodes (as well as messages generated on the TX Matrix platform itself), you must also configure system logging on the TX Matrix platform. Direct the messages to one or more destinations by including the appropriate statements at the **[edit system syslog]** hierarchy level on the TX Matrix platform:

- To a file, as described in **Directing Messages to a Log File**.
- To the terminal session of one or more specific users (or all users), as described in “**Directing Messages to a User Terminal**” on page 12.
- To the console, as described in “**Directing Messages to the Console**” on page 12.
- To a remote machine that is running the **syslogd** utility or to the other Routing Engine. For more information, see “**Directing Messages to a Remote Destination from the Routing Matrix**” on page 34.

As previously noted, the configuration statements included on the TX Matrix platform also configure the same destinations on each T640 routing node.

When specifying the severity level for local messages (at the **[edit system syslog (file | host | console | user)]** hierarchy level) and forwarded messages (at the **[edit system syslog host scc-master]** hierarchy level), you can set the same severity level for both, set a lower severity level for local messages, or set a higher severity level for local messages. The following examples describe the consequence of each configuration. (For simplicity, the examples use the **any** facility in every case. You can also specify different severities for different facilities, with more complex consequences.)

- **Messages Logged When Local and Forwarded Severity Level Are the Same** on page 30
- **Messages Logged When Local Severity Level Is Lower** on page 31
- **Messages Logged When Local Severity Level Is Higher** on page 32

**Messages Logged When Local and Forwarded Severity Level Are the Same**

When the severity level is the same for local and forwarded messages, the log on the TX Matrix platform contains all messages from the logs on the T640 routing nodes. For
example, you can specify severity info for the /var/log/messages file, which is the default severity level for messages forwarded by T640 routing nodes:

```
[edit system syslog]
file messages {
    any info;
}
```

Table 12 on page 31 specifies which messages are included in the logs on the T640 routing nodes and the TX Matrix platform.

### Table 12: Example: Local and Forwarded Severity Level Are Both info

<table>
<thead>
<tr>
<th>Log Location</th>
<th>Source of Messages</th>
<th>Lowest Severity Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>T640 routing node</td>
<td>Local</td>
<td>info</td>
</tr>
<tr>
<td>TX Matrix platform</td>
<td>Local</td>
<td>info</td>
</tr>
<tr>
<td></td>
<td>Forwarded from T640 routing nodes</td>
<td>info</td>
</tr>
</tbody>
</table>

**Messages Logged When Local Severity Level Is Lower**

When the severity level is lower for local messages than for forwarded messages, the log on the TX Matrix platform includes fewer forwarded messages than when the severities are the same. Locally generated messages are still logged at the lower severity level, so their number in each log is the same as when the severities are the same.

For example, you can specify severity notice for the /var/log/messages file and severity critical for forwarded messages.

```
[edit system syslog]
file messages {
    any notice;
}
host scc-master {
    any critical;
}
```
Table 13 on page 32 specifies which messages are included in the logs on the T640 routing nodes and the TX Matrix platform. The T640 routing nodes forward only those messages with severity critical and higher, so the log on the TX Matrix platform does not include the messages with severity error, warning, or notice that the T640 routing nodes log locally:

Table 13: Example: Local Severity Is notice, Forwarded Severity Is critical

<table>
<thead>
<tr>
<th>Log Location</th>
<th>Source of Messages</th>
<th>Lowest Severity Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>T640 routing node</td>
<td>Local</td>
<td>notice</td>
</tr>
<tr>
<td>TX Matrix platform</td>
<td>Local</td>
<td>notice</td>
</tr>
<tr>
<td></td>
<td>Forwarded from T640 routing nodes</td>
<td>critical</td>
</tr>
</tbody>
</table>

**Messages Logged When Local Severity Level Is Higher**

When the severity level is higher for local messages than for forwarded messages, the log on the TX Matrix platform includes fewer forwarded messages than when the severities are the same, and all local logs contain fewer messages overall.

For example, you can specify severity critical for the /var/log/messages file and severity notice for forwarded messages:

```
[edit system syslog]
file messages {
    any critical;
}
host scc-master {
    any notice;
}
```

Table 14 on page 32 specifies which messages are included in the logs on the T640 routing nodes and the TX Matrix platform. Although the T640 routing nodes forward messages with severity notice and higher, the TX Matrix platform discards any of those messages with severity lower than critical (does not log forwarded messages with severity error, warning, or notice). None of the logs include messages with severity error or lower.

Table 14: Example: Local Severity Is critical, Forwarded Severity Is notice

<table>
<thead>
<tr>
<th>Log Location</th>
<th>Source of Messages</th>
<th>Lowest Severity Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>T640 routing node</td>
<td>Local</td>
<td>critical</td>
</tr>
<tr>
<td>TX Matrix platform</td>
<td>Local</td>
<td>critical</td>
</tr>
<tr>
<td></td>
<td>Forwarded from T640 routing nodes</td>
<td>critical</td>
</tr>
</tbody>
</table>

We do not recommend this type of configuration, because it wastes bandwidth for the routing nodes to forward messages that are not recorded in the log on the TX Matrix platform.
Configuring Optional Features for Forwarded Messages

To configure additional optional features when specifying how the T640 routing nodes forward messages to the TX Matrix platform, include statements at the [edit system syslog host scc-master] hierarchy level. To include priority information (facility and severity level) in each forwarded message, include the `explicit-priority` statement. To insert a text string in each forwarded message, include the `log-prefix` statement. To use regular expression matching to specify more exactly which messages from a facility are forwarded, include the `match` statement.

```bash
[edit system syslog host scc-master]
facility severity;
explicit-priority;
log-prefix string;
match "regular-expression";
}
```

**NOTE:** You can also include the `facility-override` statement at the [edit system syslog host scc-master] hierarchy level, but we do not recommend doing so. It is not necessary to use alternative facilities for messages forwarded to the TX Matrix platform, because it runs the Junos system logging utility and can interpret the Junos-specific facilities. For more information about alternative facilities, see "Changing the Alternative Facility Name for Remote Messages" on page 14.

1. Including Priority Information in Forwarded Messages on page 33
2. Adding a Text String to Forwarded Messages on page 34
3. Using Regular Expressions to Refine the Set of Forwarded Messages on page 34

Including Priority Information in Forwarded Messages

When you include the `explicit-priority` statement at the [edit system syslog host scc-master] hierarchy level, messages forwarded to the TX Matrix platform include priority information. For the information to appear in a log file on the TX Matrix platform, you must also include the `explicit-priority` statement at the [edit system syslog file filename] hierarchy level for the file on the TX Matrix platform. As a consequence, the log file with the same name on each platform in the routing matrix also includes priority information for locally generated messages.

To include priority information in messages directed to a remote machine from all platforms in the routing matrix, also include the `explicit-priority` statement at the [edit system syslog host hostname] hierarchy level for the remote machine. For more information, see "Directing Messages to a Remote Destination from the Routing Matrix" on page 34.

In the following example, the `/var/log/messages` file on all platforms includes priority information for messages with severity `notice` and higher from all facilities. The log on the TX Matrix platform also includes messages with those characteristics forwarded from the T640 routing nodes.
Adding a Text String to Forwarded Messages

When you include the log-prefix statement at the [edit system syslog host scc-master] hierarchy level, the string that you define appears in every message forwarded to the TX Matrix platform. For more information, see “Adding a Text String to System Log Messages” on page 17.

Using Regular Expressions to Refine the Set of Forwarded Messages

When you include the match statement at the [edit system syslog host scc-master] hierarchy level, the regular expression that you specify controls which messages from the T640 routing nodes are forwarded to the TX Matrix platform. The regular expression is not applied to messages from the T640 routing notes that are directed to destinations other than the TX Matrix platform. For more information about regular expression matching, see “Using Regular Expressions to Refine the Set of Logged Messages” on page 23.

Directing Messages to a Remote Destination from the Routing Matrix

You can configure a routing matrix to direct system logging messages to a remote machine or the other Routing Engine on each routing platform, just as on a single-chassis system. Include the host statement at the [edit system syslog] hierarchy level on the TX Matrix platform:

```
[edit system syslog]
host (hostname | other-routing-engine) {
   facility severity;
   explicit-priority;
   facility-override facility;
   log-prefix string;
   match "regular-expression";
}
source-address source-address;
```

The TX Matrix platform directs messages to a remote machine or the other Routing Engine in the same way as a single-chassis system, and the optional statements (explicit-priority, facility-override, log-prefix, match, and source-address) also have the same effect as on a single-chassis system.

For the TX Matrix platform to include priority information when it directs messages that originated on a T640 routing node to the remote destination, you must also include the explicit-priority statement at the [edit system syslog host scc-master] hierarchy level.
The other-routing-engine statement does not interact with message forwarding from the T640 routing nodes to the TX Matrix platform. For example, if you include the statement in the configuration for the Routing Engine in slot 0 (re0), the re0 Routing Engine on each T640 routing node sends messages to the re1 Routing Engine on its platform only. It does not also send messages directly to the re1 Routing Engine on the TX Matrix platform.

Because the configuration on the TX Matrix platform applies to the T640 routing nodes, any T640 routing node that has interfaces for direct access to the Internet also directs messages to the remote machine which has the following consequences:

- If the T640 routing nodes are configured to forward messages to the TX Matrix platform (as in the default configuration), the remote machine receives two copies of some messages: one directly from the T640 routing node and the other from the TX Matrix platform. Which messages are duplicated depends on whether the severities are the same for local logging and for forwarded messages. For more information, see “Messages Logged When Local Severity Level Is Lower” on page 31,”Messages Logged When Local Severity Level Is Higher” on page 32, and “Messages Logged When Local and Forwarded Severity Level Are the Same” on page 30.

- If the source-address statement is configured at the [edit system syslog] hierarchy level, all platforms in the routing matrix report the same source routing platform in messages directed to the remote machine. This is appropriate, because the routing matrix functions as a single routing platform.

- If the log-prefix statement is included, the messages from all platforms in the routing matrix include the same text string. You cannot use the string to distinguish between the platforms in the routing matrix.

### Configuring System Logging Differently on Each Platform

We recommend that all platforms in a routing matrix use the same configuration, which implies that you include system logging configuration statements on the TX Matrix platform only. In rare circumstances, however, you might choose to log different messages on different platforms. For example, if one platform in the routing matrix is experiencing problems with authentication, a Juniper Networks support representative might instruct you to log messages from the authorization facility on that platform.

To configure platforms separately, include configuration statements in the appropriate groups at the [edit groups] hierarchy level on the TX Matrix platform:

- To configure settings that apply to the TX Matrix platform but not the T640 routing nodes, include them in the re0 and re1 configuration groups.

- To configure settings that apply to particular T640 routing nodes, include them in the lccn-re0 and lccn-re1 configuration groups, where n is the line-card chassis (LCC) index number of the routing node.

When you use configuration groups, do not issue CLI configuration-mode commands to change the statements at the [edit system syslog] hierarchy level on the TX Matrix platform. If you do, the resulting statements overwrite the statements defined in configuration groups and apply to the T640 routing nodes also. (We further recommend
that you do not issue CLI configuration mode commands on the T640 routing nodes at any time.)

For more information about the configuration groups for a routing matrix, see the chapter about configuration groups in the Junos OS CLI User Guide.

The following example shows how to configure the /var/log/messages files on three platforms to include different sets of messages:

- On the TX Matrix platform, local messages with severity info and higher from all facilities. The file does not include messages from the T640 routing nodes, because the host scc-master statement disables message forwarding.

- On the T640 routing node designated LCC0, messages from the authorization facility with severity info and higher.

- On the T640 routing node designated LCC1, messages with severity notice from all facilities.

    [edit groups]
    re0 {
        system {
            syslog {
                file messages {
                    any info;
                }
                host scc-master {
                    any none;
                }
            }
        }
        re1 {
            ... same statements as for re0 ...
        }
        lcc0-re0 {
            system {
                syslog {
                    file messages {
                    authorization info;
                    }
                }
            }
        }
        lcc0-re1 {
            ... same statements as for lcc0-re0 ...
        }
        lcc1-re0 {
            system {
                syslog {
                    file messages {
                        any notice;
                    }
                }
            }
        }
        }

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Displaying and Interpreting System Log Messages

This section explains how to display a log file and interpret the contents of system log messages:

For more information about the commands discussed in this section, see the Junos System Basics and Services Command Reference.

- Displaying a Log File from a Single-Chassis System on page 37
- Displaying a Log File from a Routing Matrix on page 37
- Interpreting System Log Messages on page 38
- Format of the message-source Field on page 45
- Examples: Displaying a Log File on page 48

Displaying a Log File from a Single-Chassis System

To display a log file stored on a single-chassis system, enter Junos OS CLI operational mode and issue either of the following commands:

```
user@host> show log
user@host> file show
```

By default, the commands display the file stored on the local Routing Engine. To display the file stored on a particular Routing Engine, prefix the file- or pathname with the string `re0` or `re1` and a colon. The following examples both display the `/var/log/messages` file stored on the Routing Engine in slot 1:

```
user@host> show log re1:messages
user@host> file show re1:/var/log/messages
```


Displaying a Log File from a Routing Matrix

One way to display a log file stored on the local Routing Engine of any of the individual platforms in a routing matrix (T640 routing nodes or TX Matrix platform) is to log in to a Routing Engine on the platform, enter Junos OS CLI operational mode, and issue the `show log` or `file show` command described in “Displaying a Log File from a Single-Chassis System” on page 37.

To display a log file stored on a T640 routing node during a terminal session on the TX Matrix platform, issue the `show log` or `file show` command and add a prefix that specifies
the T640 routing node’s LCC index number as lccn, followed by a colon. The index can be from 0 (zero) through 3:

```
user@host> show log lccn:log-filename
user@host> file show lccn:log-file-pathname
```

By default, the `show log` and `file show` commands display the specified log file stored on the master Routing Engine on the T640 routing node. To display the log from a particular Routing Engine, prefix the file- or pathname with the string lccn-master, lccn-re0, or lccn-re1, followed by a colon. The following examples all display the `/var/log/messages` file stored on the master Routing Engine (in slot 0) on routing node LCC2:

```
user@host> show log lcc2:messages
user@host> show log lcc2-master:messages
user@host> show log lcc2-re0:messages
user@host> file show lcc2:/var/log/messages
```

If the T640 routing nodes are forwarding messages to the TX Matrix platform (as in the default configuration), another way to view messages generated on a T640 routing node during a terminal session on the TX Matrix platform is simply to display a local log file. However, the messages are intermixed with messages from other T640 routing nodes and the TX Matrix platform itself. For more information about message forwarding, see “Messages Logged When Local Severity Level Is Lower” on page 31, “Messages Logged When Local Severity Level Is Higher” on page 32, and “Messages Logged When Local and Forwarded Severity Level Are the Same” on page 30.


**Interpreting System Log Messages**

The fields in a message written to the system log depend on whether the message was generated by a Junos process or subroutine library, or by services on a PIC, and whether it is in standard format or structured-data format. For more information, see the following sections:

- Interpreting Messages Generated in Structured-Data Format on page 38
- Interpreting Messages Generated in Standard Format by a Junos Process or Library on page 43
- Interpreting Messages Generated in Standard Format by Services on a PIC on page 44

**Interpreting Messages Generated in Structured-Data Format**

Beginning in Junos OS Release 8.3, when the `structured-data` statement is included in the configuration for a log file, Junos processes and software libraries write messages to the file in structured-data format instead of the standard Junos format. For information about the `structured-data` statement, see “Logging Messages in Structured-Data Format” on page 11.
Structured-format makes it easier for automated applications to extract information from the message. In particular, the standardized format for reporting the value of variables (elements in the English-language message that vary depending on the circumstances that triggered the message) makes it easy for an application to extract those values. In standard format, the variables are interspersed in the message text and not identified as variables.

The structured-data format for a message includes the following fields (which appear here on two lines only for legibility):

\(<\text{priority code}>\text{version timestamp hostname process processID TAG [junos@2636.platform variable-value-pairs] message-text}\)

Table 15 on page 39 describes the fields. If the system logging utility cannot determine the value in a particular field, a hyphen ( - ) appears instead.

Table 15: Fields in Structured-Data Messages

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;priority code&gt;</td>
<td>Number that indicates the message’s facility and severity. It is calculated by multiplying the facility number by 8 and then adding the numerical value of the severity. For a mapping of the numerical codes to facility and severity, see Table: Facility and Severity Codes in the priority-code Field in “Specifying the Facility and Severity of Messages to Include in the Log” on page 9.</td>
<td>&lt;165&gt; for a message from the pfe facility (facility=20) with severity notice (severity=5).</td>
</tr>
<tr>
<td>version</td>
<td>Version of the Internet Engineering Task Force (IETF) system logging protocol specification.</td>
<td>1 for the initial version</td>
</tr>
<tr>
<td>timestamp</td>
<td>Time when the message was generated, in one of two representations:</td>
<td>2007-02-15T09:17:15.719Z is 9:17 AM UTC on 15 February 2007. 2007-02-15T01:17:15.719-08:00 is the same timestamp expressed as Pacific Standard Time in the United States.</td>
</tr>
<tr>
<td>hostname</td>
<td>Name of the host that originally generated the message.</td>
<td>router1</td>
</tr>
<tr>
<td>process</td>
<td>Name of the Junos process that generated the message.</td>
<td>mgd</td>
</tr>
<tr>
<td>processID</td>
<td>UNIX process ID (PID) of the Junos process that generated the message.</td>
<td>3046</td>
</tr>
</tbody>
</table>
Table 15: Fields in Structured-Data Messages (continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAG</td>
<td>Junos system log message tag, which uniquely identifies the message.</td>
<td>UI_DBASE_LOGOUT_EVENT</td>
</tr>
<tr>
<td><a href="mailto:junos@2636.platform">junos@2636.platform</a></td>
<td>An identifier for the type of hardware platform that generated the message.</td>
<td>junos@2636.1.1.2.18 for the M120 router</td>
</tr>
<tr>
<td></td>
<td>The junos@2636 prefix indicates that the platform runs the Junos OS. It is</td>
<td></td>
</tr>
<tr>
<td></td>
<td>followed by a dot-separated numerical identifier for the platform type. For</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a list of the identifiers, see Table 17 on page 42.</td>
<td></td>
</tr>
<tr>
<td>variable-value-pairs</td>
<td>A variable-value pair for each element in the message-text string that varies</td>
<td>username=&quot;regress&quot;</td>
</tr>
<tr>
<td></td>
<td>depending on the circumstances that triggered the message. Each pair appears</td>
<td></td>
</tr>
<tr>
<td></td>
<td>in the format variable = &quot;value&quot;.</td>
<td></td>
</tr>
<tr>
<td>message-text</td>
<td>English-language description of the event or error (omitted if the brief</td>
<td>User 'regress' exiting configuration mode</td>
</tr>
<tr>
<td></td>
<td>statement is included at the [edit system syslog file filename structured-data] hierarchy level). For the text for each message, see the chapters following System Log Messages.</td>
<td></td>
</tr>
</tbody>
</table>

By default, the structured-data version of a message includes English text at the end, as in the following example (which appears on multiple lines only for legibility):

```plaintext
<165>1 2007-02-15T09:17:15.719Z router1 mgd 3046 UI_DBASE_LOGOUT_EVENT [junos@2636.1.1.2.18 username="regress"] User 'regress' exiting configuration mode
```

When the brief statement is included at the [edit system syslog file filename structured-data] hierarchy level, the English text is omitted, as in this example:

```plaintext
<165>1 2007-02-15T09:17:15.719Z router1 mgd 3046 UI_DBASE_LOGOUT_EVENT [junos@2636.1.1.2.18 username="regress"]
```

Table 16 on page 41 maps the codes that appear in the priority-code field to facility and severity level.

**NOTE:** Not all of the facilities and severities listed in Table 16 on page 41 can be included in statements at the [edit system syslog] hierarchy level (some are used by internal processes). For a list of the facilities and severity levels that can be included in the configuration, see “Specifying the Facility and Severity of Messages to Include in the Log” on page 9.
### Table 16: Facility and Severity Codes in the priority-code Field

<table>
<thead>
<tr>
<th>Facility (number)</th>
<th>Severity emergency</th>
<th>alert</th>
<th>critical</th>
<th>error</th>
<th>warning</th>
<th>notice</th>
<th>info</th>
<th>debug</th>
</tr>
</thead>
<tbody>
<tr>
<td>kernel (0)</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>user (1)</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>mail (2)</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
</tr>
<tr>
<td>daemon (3)</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
</tr>
<tr>
<td>authorization (4)</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>35</td>
<td>36</td>
<td>37</td>
<td>38</td>
<td>39</td>
</tr>
<tr>
<td>syslog (5)</td>
<td>40</td>
<td>41</td>
<td>42</td>
<td>43</td>
<td>44</td>
<td>45</td>
<td>46</td>
<td>47</td>
</tr>
<tr>
<td>printer (6)</td>
<td>48</td>
<td>49</td>
<td>50</td>
<td>51</td>
<td>52</td>
<td>53</td>
<td>54</td>
<td>55</td>
</tr>
<tr>
<td>news (7)</td>
<td>56</td>
<td>57</td>
<td>58</td>
<td>59</td>
<td>60</td>
<td>61</td>
<td>62</td>
<td>63</td>
</tr>
<tr>
<td>uucp (8)</td>
<td>64</td>
<td>65</td>
<td>66</td>
<td>67</td>
<td>68</td>
<td>69</td>
<td>70</td>
<td>71</td>
</tr>
<tr>
<td>clock (9)</td>
<td>72</td>
<td>73</td>
<td>74</td>
<td>75</td>
<td>76</td>
<td>77</td>
<td>78</td>
<td>79</td>
</tr>
<tr>
<td>authorization-private (10)</td>
<td>80</td>
<td>81</td>
<td>82</td>
<td>83</td>
<td>84</td>
<td>85</td>
<td>86</td>
<td>87</td>
</tr>
<tr>
<td>ftp (11)</td>
<td>88</td>
<td>89</td>
<td>90</td>
<td>91</td>
<td>92</td>
<td>93</td>
<td>94</td>
<td>95</td>
</tr>
<tr>
<td>ntp (12)</td>
<td>96</td>
<td>97</td>
<td>98</td>
<td>99</td>
<td>100</td>
<td>101</td>
<td>102</td>
<td>103</td>
</tr>
<tr>
<td>security (13)</td>
<td>104</td>
<td>105</td>
<td>106</td>
<td>107</td>
<td>108</td>
<td>109</td>
<td>110</td>
<td>111</td>
</tr>
<tr>
<td>console (14)</td>
<td>112</td>
<td>113</td>
<td>114</td>
<td>115</td>
<td>116</td>
<td>117</td>
<td>118</td>
<td>119</td>
</tr>
<tr>
<td>local0 (16)</td>
<td>128</td>
<td>129</td>
<td>130</td>
<td>131</td>
<td>132</td>
<td>133</td>
<td>134</td>
<td>135</td>
</tr>
<tr>
<td>dfc (17)</td>
<td>136</td>
<td>137</td>
<td>138</td>
<td>139</td>
<td>140</td>
<td>141</td>
<td>142</td>
<td>143</td>
</tr>
<tr>
<td>local2 (18)</td>
<td>144</td>
<td>145</td>
<td>146</td>
<td>147</td>
<td>148</td>
<td>149</td>
<td>150</td>
<td>151</td>
</tr>
<tr>
<td>firewall (19)</td>
<td>152</td>
<td>153</td>
<td>154</td>
<td>155</td>
<td>156</td>
<td>157</td>
<td>158</td>
<td>159</td>
</tr>
<tr>
<td>pfe (20)</td>
<td>160</td>
<td>161</td>
<td>162</td>
<td>163</td>
<td>164</td>
<td>165</td>
<td>166</td>
<td>167</td>
</tr>
<tr>
<td>conflict-log (21)</td>
<td>168</td>
<td>169</td>
<td>170</td>
<td>171</td>
<td>172</td>
<td>173</td>
<td>174</td>
<td>175</td>
</tr>
<tr>
<td>change-log (22)</td>
<td>176</td>
<td>177</td>
<td>178</td>
<td>179</td>
<td>180</td>
<td>181</td>
<td>182</td>
<td>183</td>
</tr>
<tr>
<td>interactive-commands (23)</td>
<td>184</td>
<td>185</td>
<td>186</td>
<td>187</td>
<td>188</td>
<td>189</td>
<td>190</td>
<td>191</td>
</tr>
</tbody>
</table>
Table 17 on page 42 lists the numerical identifiers for routing platforms that appear in the platform field. The identifier is derived from the platform’s SNMP object identifier (OID) as defined in the Juniper Networks routing platform MIB. For more information about OIDs, see the Junos Network Management Configuration Guide.

**Table 17: Platform Identifiers in the platform Field**

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Platform Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.1.2.1</td>
<td>M40 router</td>
</tr>
<tr>
<td>1.1.1.2.2</td>
<td>M20 router</td>
</tr>
<tr>
<td>1.1.1.2.3</td>
<td>M160 router</td>
</tr>
<tr>
<td>1.1.1.2.4</td>
<td>M10 router</td>
</tr>
<tr>
<td>1.1.1.2.5</td>
<td>M5 router</td>
</tr>
<tr>
<td>1.1.1.2.6</td>
<td>T640 routing node</td>
</tr>
<tr>
<td>1.1.1.2.7</td>
<td>T320 router</td>
</tr>
<tr>
<td>1.1.1.2.8</td>
<td>M40e router</td>
</tr>
<tr>
<td>1.1.1.2.9</td>
<td>M320 router</td>
</tr>
<tr>
<td>1.1.1.2.10</td>
<td>M7i router</td>
</tr>
<tr>
<td>1.1.1.2.11</td>
<td>M10i router</td>
</tr>
<tr>
<td>1.1.1.2.13</td>
<td>J2300 Services Router</td>
</tr>
<tr>
<td>1.1.1.2.14</td>
<td>J4300 Services Router</td>
</tr>
<tr>
<td>1.1.1.2.15</td>
<td>J6300 Services Router</td>
</tr>
<tr>
<td>1.1.1.2.17</td>
<td>TX Matrix platform</td>
</tr>
<tr>
<td>1.1.1.2.18</td>
<td>M120 router</td>
</tr>
<tr>
<td>1.1.1.2.19</td>
<td>J4350 Services Router</td>
</tr>
<tr>
<td>1.1.1.2.20</td>
<td>J6350 Services Router</td>
</tr>
<tr>
<td>1.1.1.2.23</td>
<td>J2320 Services Router</td>
</tr>
<tr>
<td>1.1.1.2.24</td>
<td>J2350 Services Router</td>
</tr>
</tbody>
</table>
Interpreting Messages Generated in Standard Format by a Junos Process or Library

The syntax of a standard-format message generated by a Junos OS process or subroutine library depends on whether it includes priority information:

- When the `explicit-priority` statement is included at the `[edit system syslog file filename]` or `[edit system syslog host (hostname | other-routing-engine)]` hierarchy level, a system log message has the following syntax:

  \[\text{timestamp} \ \text{message-source:} \ %\text{facility}-\text{severity}-\text{TAG}: \text{message-text}\]

- When directed to the console or to users, or when the `explicit-priority` statement is not included for files or remote hosts, a system log message has the following syntax:

  \[\text{timestamp} \ \text{message-source:} \ \text{TAG}: \text{message-text}\]

Table 18 on page 43 describes the message fields.

Table 18: Fields in Standard-Format Messages Generated by a Junos Process or Library

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>timestamp</code></td>
<td>Time at which the message was logged.</td>
</tr>
<tr>
<td><code>message-source</code></td>
<td>Identifier of the process or component that generated the message and the routing platform on which the message was logged. This field includes two or more subfields, depending on how system logging is configured. See “The <code>message-source</code> Field on a TX Matrix Platform” on page 45, “The <code>message-source</code> Field on a T640 Routing Node in a Routing Matrix” on page 47, and “The <code>message-source</code> Field on a Single-Chassis System” on page 45.</td>
</tr>
<tr>
<td><code>facility</code></td>
<td>Code that specifies the facility to which the system log message belongs. For a mapping of codes to facility names, see Table: Facility Codes Reported in Priority Information in “Including Priority Information in System Log Messages” on page 18.</td>
</tr>
<tr>
<td><code>severity</code></td>
<td>Numerical code that represents the severity level assigned to the system log message. For a mapping of codes to severity names, see Table: Numerical Codes for Severity Levels Reported in Priority Information in “Including Priority Information in System Log Messages” on page 18.</td>
</tr>
<tr>
<td><code>TAG</code></td>
<td>Text string that uniquely identifies the message, in all uppercase letters and using the underscore (_) to separate words. The tag name begins with a prefix that indicates the generating software process or library. The entries in this reference are ordered alphabetically by this prefix. Not all processes on a routing platform use tags, so this field does not always appear.</td>
</tr>
<tr>
<td><code>message-text</code></td>
<td>Text of the message. For the text for each message, see the chapters following System Log Messages.</td>
</tr>
</tbody>
</table>
Interpreting Messages Generated in Standard Format by Services on a PIC

Standard-format system log messages generated by services on a PIC, such as the Adaptive Services (AS) PIC, have the following syntax:

```
timestamp (FPC Slot fpc-slot, PIC Slot pic-slot) {service-set} [SERVICE]:
optional-string TAG: message-text
```

**NOTE:** System logging for services on PICs is not configured at the [edit system syslog] hierarchy level as discussed in this chapter. For configuration information, see the Junos Services Interfaces Configuration Guide.

The (FPC Slot fpc-slot, PIC Slot pic-slot) field appears only when the standard system logging utility that runs on the Routing Engine writes the messages to the system log. When the PIC writes the message directly, the field does not appear.

Table 19 on page 44 describes the message fields.

Table 19: Fields in Messages Generated by a PIC

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>timestamp</code></td>
<td>Time at which the message was logged.</td>
</tr>
<tr>
<td><code>fpc-slot</code></td>
<td>Slot number of the Flexible PIC Concentrator (FPC) that houses the PIC that generated the message.</td>
</tr>
<tr>
<td><code>pic-slot</code></td>
<td>Number of the PIC slot on the FPC in which the PIC that generated the message resides.</td>
</tr>
<tr>
<td><code>service-set</code></td>
<td>Name of the service set that generated the message.</td>
</tr>
<tr>
<td><code>SERVICE</code></td>
<td>Code representing the service that generated the message. The codes include the following:</td>
</tr>
<tr>
<td></td>
<td>• FWNAT—Network Address Translation (NAT) service</td>
</tr>
<tr>
<td></td>
<td>• IDS—Intrusion detection service</td>
</tr>
<tr>
<td><code>optional-string</code></td>
<td>A text string that appears if the configuration for the PIC includes the log-prefix statement at the [edit interfaces interface-name services-options syslog] hierarchy level. For more information, see the Junos Services Interfaces Configuration Guide.</td>
</tr>
<tr>
<td><code>TAG</code></td>
<td>Text string that uniquely identifies the message, in all uppercase letters and using the underscore (_) to separate words. The tag name begins with a prefix that indicates the generating PIC. The entries in this reference are ordered alphabetically by this prefix.</td>
</tr>
<tr>
<td><code>message-text</code></td>
<td>Text of the message. For the text of each message, see System Log Messages.</td>
</tr>
</tbody>
</table>

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Format of the message-source Field

The message-source field discussed in "Interpreting Messages Generated in Standard Format by a Junos Process or Library" on page 43 has two or more subfields, depending on whether the message is logged on a single-chassis system or on a platform in a routing matrix, and whether message forwarding is configured in the routing matrix.

For more information, see the following sections:

- The message-source Field on a Single-Chassis System on page 45
- The message-source Field on a TX Matrix Platform on page 45
- The message-source Field on a T640 Routing Node in a Routing Matrix on page 47

The message-source Field on a Single-Chassis System

The format of the message-source field in a message on a single-chassis system depends on whether the message was generated on the local Routing Engine or the other Routing Engine (on a system with two Routing Engines installed and operational). Messages from the other Routing Engine appear only if its configuration includes the other-routing-engine statement at the [edit system syslog host] hierarchy level.

- When the local Routing Engine generated the message, there are two subfields:
  
  hostname process[process-ID]

- When the other Routing Engine generated the message, there are three subfields:

  hostname reX process[process-ID]

hostname is the hostname of the local Routing Engine.

process[process-ID] is the name and PID of the process that generated the message. If the reX field also appears, the process is running on the other Routing Engine. If a process does not report its PID, the [process-ID] part does not appear.

reX indicates that the other Routing Engine generated the message (X is 0 or 1).

The message-source Field on a TX Matrix Platform

The format of the message-source field in a message on a TX Matrix platform depends on several factors:

- Whether the message was generated on the TX Matrix platform or a T640 routing node in the routing matrix. By default, the master Routing Engine on each T640 routing node forwards messages from all facilities with severity info and higher to the master Routing Engine on the TX Matrix platform. When you configure system logging on the TX Matrix platform, its logs include the forwarded messages. For more information, see "Messages Logged When Local Severity Level Is Lower" on page 31, "Messages Logged When Local Severity Level Is Higher" on page 32, and "Messages Logged When Local and Forwarded Severity Level Are the Same" on page 30.

- Whether the message was generated on the local Routing Engine or the other Routing Engine on the originating machine (TX Matrix platform or T640 routing node). Messages
from the other Routing Engine appear only if its configuration includes the `other-routing-engine` statement at the [edit system syslog host] hierarchy level.

- Whether the message was generated by a kernel or user-space process, or by the microkernel on a hardware component.

Table 20 on page 46 specifies the format of the message-source field in the various cases.

### Table 20: Format of message-source Field in Messages Logged on TX Matrix Platform

<table>
<thead>
<tr>
<th>Generating Machine</th>
<th>Generating Routing Engine</th>
<th>Process or Component</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX Matrix platform</td>
<td>Local</td>
<td>Process</td>
<td><code>hostname process[processID]</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Component</td>
<td><code>hostname scc-reX process[processID]</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other</td>
<td><code>hostname scc-reX scc-componentZ process</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Component</td>
<td><code>hostname scc-reX scc-componentZ process</code></td>
</tr>
<tr>
<td>T640 routing node</td>
<td>Local</td>
<td>Process</td>
<td><code>hostname lccY-master process[processID]</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Component</td>
<td><code>hostname lccY-master scc-componentZ process</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other</td>
<td><code>hostname lccY-master lccY-reX process[processID]</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Component</td>
<td><code>hostname lccY-master lccY-reX scc-componentZ process</code></td>
</tr>
</tbody>
</table>

- `hostname` is the hostname of the local Routing Engine on the TX Matrix platform.

- `lccY-master` is the master Routing Engine on the T640 routing node with the indicated LCC index number (Y is from 0 through 3).

- `lccY-reX` indicates that the backup Routing Engine on the T640 routing node generated the message (X is 0 or 1). The routing node has the indicated LCC index number (Y matches the value in the `lccY-master` field.

- `lccY-componentZ` process identifies the hardware component and process on the T640 routing node that generated the message (Y matches the value in the `lccY-master` field and the range of values for Z depends on the component type). For example, `lcc2-fpc1 PFEMAN` refers to a process on the FPC in slot 1 on the T640 routing node with index LCC2.
**process[process-ID]** is the name and PID of the kernel or user-space process that generated the message. If the **scc-reX** or **lccY-reX** field also appears, the process is running on the other Routing Engine. If a process does not report its PID, the **[process-ID]** part does not appear.

**scc-componentZ** process identifies the hardware component and process on the TX Matrix platform that generated the message (the range of values for **Z** depends on the component type). For example, **spmb1 GSIB** refers to a process on one of the processor boards in the Switch Interface Board (SiB) with index 1.

**scc-reX** indicates that the other Routing Engine on the TX Matrix platform generated the message (**X** is 0 or 1).

The **message-source** Field on a T640 Routing Node in a Routing Matrix

The format of the **message-source** field in a message on a T640 routing node in a routing matrix depends on two factors:

- Whether the message was generated on the local Routing Engine or the other Routing Engine. Messages from the other Routing Engine appear only if its configuration includes the **other-routing-engine** statement at the [edit system syslog host] hierarchy level.
- Whether the message was generated by a kernel or user-space process, or by the microkernel on a hardware component.

Table 21 on page 47 specifies the format of the **message-source** field in the various cases.

**Table 21: Format of message-source Field in Messages Logged on TX Matrix Platform**

<table>
<thead>
<tr>
<th>Generating Routing Engine</th>
<th>Process or Component</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local</td>
<td>Process</td>
<td><strong>hostname-lccY</strong> process[processID]</td>
</tr>
<tr>
<td></td>
<td>Component</td>
<td><strong>hostname-lccY</strong> lccY-componentZ process</td>
</tr>
<tr>
<td>Other</td>
<td>Process</td>
<td><strong>hostname-lccY</strong> lccY-reX process[processID]</td>
</tr>
<tr>
<td></td>
<td>Component</td>
<td><strong>hostname-lccY</strong> lccY-reX lccY-componentZ process</td>
</tr>
</tbody>
</table>

**hostname-lccY** is the hostname of the local Routing Engine and the T640 routing node’s LCC index number.

**lccY-componentZ** process identifies the hardware component and process that generated the message (**Y** matches the value in the **hostname-lccY** field and the range of values for **Z** depends on the component type). For example, **lcc0-fpc0 CMLC** refers to a process on the FPC in slot 0. The T640 routing node has index LCC0 in the routing matrix.

**lccY-reX** indicates that the other Routing Engine on the routing node generated the message (**Y** matches the value in the **hostname-lccY** field and **X** is 0 or 1).
**process[process-ID]** is the name and PID of the kernel or user-space process that generated the message. If the lccY-reX field also appears, the process is running on the other Routing Engine. If a process does not report its PID, the [process-ID] part does not appear.

**Examples: Displaying a Log File**

Display the contents of the /var/log/messages file stored on the local Routing Engine. (The /var/log directory is the default location for log files, so you do not need to include it in the filename. The messages file is a commonly configured destination for system log messages.)

```
user@host> show log messages Apr 11 10:27:25 router1 mgd[3606]:
    UI_DBASE_LOGIN_EVENT: User 'barbara' entering configuration mode
Apr 11 10:32:22 router1 mgd[3606]: UI_DBASE_LOGOUT_EVENT: User 'barbara' exiting configuration mode
Apr 11 11:36:15 router1 mgd[3606]: UL_COMMIT: User 'root' performed commit: no comment
Apr 11 11:46:37 router1 mib2d[2905]: SNMP_TRAP_LINK_DOWN: ifIndex 82, ifAdminStatus up(1), ifOperStatus down(2), ifName at-1/0/0
```

Display the contents of the file /var/log/processes, which has been previously configured to include messages from the daemon facility. When issuing the file show command, you must specify the full pathname of the file:

```
user@host> file show /var/log/processes Feb 22 08:58:24 router1 snmpd[359]:
    SNMPD_TRAP_WARM_START: trap_generate_warm: SNMP trap: warm start
    Feb 22 20:35:07 router1 snmpd[359]: SNMPD_THROTTLE_QUEUE_DRAINED:
        trap_throttle_timer_handler: cleared all throttled traps
    Feb 23 07:34:56 router1 snmpd[359]: SNMPD_TRAP_WARM_START: trap_generate_warm:
        SNMP trap: warm start
    Feb 23 07:38:19 router1 snmpd[359]: SNMPD_TRAP_COLD_START: trap_generate_cold:
        SNMP trap: cold start
```

Display the contents of the file /var/log/processes when the explicit-priority statement is included at the [edit system syslog file processes] hierarchy level:

```
user@host> file show /var/log/processes Feb 22 08:58:24 router1 snmpd[359]:
    %DAEMON-3-SNMPD_TRAP_WARM_START: trap_generate_warm: SNMP trap: warm start
    Feb 22 20:35:07 router1 snmpd[359]:
    %DAEMON-6-SNMPD_THROTTLE_QUEUE_DRAINED:trap_throttle_timer_handler: cleared all throttled traps
    Feb 23 07:34:56 router1 snmpd[359]:
    %DAEMON-3-SNMPD_TRAP_WARM_START: trap_generate_warm: SNMP trap: warm start
    Feb 23 07:38:19 router1 snmpd[359]:
    %DAEMON-2-SNMPD_TRAP_COLD_START: trap_generate_cold: SNMP trap: cold start
```

**Getting Help About System Log Messages**

System log message tag names begin with a prefix that indicates which Junos OS process, subroutine library, or service on a PIC generated the message. This section explains how to learn more about the messages with each prefix, both in this reference and while you are using the CLI.
For a list of the prefixes for messages described in this reference, see System Log Messages. For information about displaying and interpreting messages, see the following sections:

- Displaying and Interpreting System Log Message Descriptions on page 49
- Examples: Displaying System Log Message Descriptions on page 51

Displaying and Interpreting System Log Message Descriptions

This reference lists the messages available at the time of its publication. To display the list of messages that applies to the version of the Junos OS that is running on a routing platform, enter Junos OS CLI operational mode and issue the following command:

```
user@host> help syslog ?
```

To display the list of available descriptions for tags whose names begin with a specific character string, substitute the string (in all capital letters) for the variable `TAG-PREFIX` (there is no space between the prefix and the question mark):

```
user@host> help syslog TAG-PREFIX?
```

To display the complete descriptions for tags whose name includes a regular expression, substitute a Perl-based expression for the variable `regex`. The match is not case-sensitive. For information about Perl-based regular expressions, consult a Perl reference manual or website such as [http://perldoc.perl.org](http://perldoc.perl.org).

```
user@host> help syslog regex
```

To display the complete description of a particular message, substitute its name for the variable `TAG` (in all capital letters):

```
user@host> help syslog TAG
```

Table 22 on page 49 describes the fields in a system log message description in this reference or in the CLI.

Table 22: Fields in System Log Message Descriptions

<table>
<thead>
<tr>
<th>Field Name in Reference</th>
<th>Field Name in CLI</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Name</td>
<td>The message tag in all capital letters.</td>
</tr>
</tbody>
</table>
Table 22: Fields in System Log Message Descriptions (continued)

<table>
<thead>
<tr>
<th>Field Name in Reference</th>
<th>Field Name in CLI</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Message</td>
<td>Text of the message written to the system log. In the log, a specific value is substituted for each variable that appears in italics in this reference or in angle brackets (&lt;&lt;&gt;) in the CLI. In this reference, the message text appears on the second line of the System Log Message field. The first line is the message tag (the same text as in the CLI Name field). The prefix on each tag identifies the message source and the rest of the tag indicates the specific event or error.</td>
</tr>
<tr>
<td>—</td>
<td>Help</td>
<td>Short description of the message, which also appears in the right-hand column of CLI output for the help syslog command when the output lists multiple messages.</td>
</tr>
<tr>
<td>Description</td>
<td>Description</td>
<td>More detailed explanation of the message.</td>
</tr>
<tr>
<td>Type</td>
<td>Type</td>
<td>Category to which the message belongs:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Error: The message reports an error or failure condition that might require corrective action.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Event: The message reports a condition or occurrence that does not generally require corrective action.</td>
</tr>
<tr>
<td>Severity</td>
<td>Severity</td>
<td>Message severity level as described in Table: System Log Message Severity Levels in “Specifying the Facility and Severity of Messages to Include in the Log” on page 9.</td>
</tr>
<tr>
<td>Cause</td>
<td>Cause</td>
<td>(Optional) Possible cause for message generation. There can be more than one cause.</td>
</tr>
</tbody>
</table>
Table 22: Fields in System Log Message Descriptions (continued)

<table>
<thead>
<tr>
<th>Field Name in Reference</th>
<th>Field Name in CLI</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Action</td>
<td>(Optional) Action you can perform to resolve the error or failure condition described in the message. If this field does not appear in an entry, either no action is required or the action is self-explanatory.</td>
</tr>
</tbody>
</table>

Examples: Displaying System Log Message Descriptions

Display the list of all currently available system log message descriptions:

```
user@host> help syslog ?
```

Possible completions:

```
<syslog-tag>  Syslog tag
...
BOOTPD_ARG_ERR  Command-line option was invalid
BOOTPD_BAD_ID   Request failed because assembly ID was unknown
BOOTPD_BOOTSTRING  tnp.bootpd provided boot string
used default settings
BOOTPD_CONF_OPEN  tnp.bootpd could not open configuration file
BOOTPD_DUP_REV   Extra boot string definitions for revision were ignored
---(more 4%)---
```

Display the list of all currently available system log message descriptions for tags that begin with the letters ACCT (there is no space between ACCT and the question mark, and some descriptions are shortened for legibility):

```
user@host> help syslog ACCT?
```

Possible completions:

```
<syslog-tag>       System log tag or regular expression
ACCT_ACCOUNTING_FERROR    Error occurred during file processing
ACCT_ACCOUNTING_FOPEN_ERROR   Open operation failed on file
ACCT_ACCOUNTING_SMALL_FILE_SIZE Maximum file size is smaller than ...
ACCT_BAD_RECORD_FORMAT    Record format does not match accounting profile
ACCT_CI_RTSLIB_ERROR     Error occurred obtaining current class usage ...
ACCT_FORK_ERR               Could not create child process
ACCT_FORK_LIMIT_EXCEEDED   Could not create child process because of limit
ACCT_GETHOSTNAME_ERROR      gethostname function failed
ACCT_MALLOC_FAILURE       Memory allocation failed
ACCT_UNDEFINED_COUNTER_NAME  Filter profile used undefined counter name
ACCT_XFER_FAILED          Attempt to transfer file failed
ACCT_XFER_POPEN_FAIL      File transfer failed
```

Display the description of the UI_CMDLINE_READ_LINE message:

```
user@host> help syslog UI_CMDLINE_READ_LINE
```

Name:    UI_CMDLINE_READ_LINE
Message:   User '<users>', command '<input>'
Help:    User entered command at CLI prompt
Description: The indicated user typed the indicated command at the CLI
prompt and pressed the Enter key, sending the command string to the management process (mgd).
Type: Event: This message reports an event, not an error
Severity: info
PART 2

System Log Messages

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- APPIDD System Log Messages on page 75
- APPXY System Log Messages on page 77
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• PFED System Log Messages on page 537
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CHAPTER 2

ACCT System Log Messages

This chapter describes messages with the ACCT prefix. They are generated by the accounting statistics process, which collects and records interface, filter, and class usage statistics.

**ACCT_ACCOUNTING_FERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unexpected error error-code from file filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An error prevented the accounting statistics process from processing the indicated file.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**ACCT_ACCOUNTING_FOPEN_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to open file filename: error-code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The accounting statistics process could not open the indicated file.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**ACCT_ACCOUNTING_SMALL_FILE_SIZE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>File filename size (file-size) is smaller than record size (record-size)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The size limit configured for the indicated file is smaller than the record to be written to it.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**ACCT_BAD_RECORD_FORMAT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Invalid statistics record: entry</th>
</tr>
</thead>
</table>
Description: The number of columns in the indicated record does not match the number of columns in the accounting profile.

Type: Error: An error occurred

Severity: warning

Facility: LOG_PFE

**ACCT_CU_RTSLIB_ERROR**

System Log Message: Error getting class usage statistics for interface interface-name.unit-id: error-message

Description: The accounting statistics process could not obtain current class usage statistics.

Type: Error: An error occurred

Severity: error

Facility: LOG_PFE

**ACCT_FORK_ERR**

System Log Message: Unable to fork: error-message

Description: The accounting statistics process could not create a child process for transferring files, for the indicated reason.

Type: Error: An error occurred

Severity: error

Facility: LOG_PFE

**ACCT_FORK_LIMIT_EXCEEDED**

System Log Message: Unable to fork: too many child processes

Description: The accounting statistics process could not create a child process for transferring files, because adding another child would have made the number of children exceed the limit.

Type: Error: An error occurred

Severity: error

Facility: LOG_PFE

**ACCT_GETHOSTNAME_ERROR**

System Log Message: Error error-code trying to get hostname

Description: A call to the gethostname() function failed.

Type: Error: An error occurred

Severity: error

Facility: LOG_PFE
## ACCT_MALLOC_FAILURE

**System Log Message**: Memory allocation failed while reallocating filter profile interface list

**Description**: The accounting statistics process could not allocate memory from the heap.

**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_PFE  
**Cause**: An internal software failure occurred.  
**Action**: Contact your technical support representative. For more information, see [KB18749](#).

## ACCT_UNDEFINED_COUNTER_NAME

**System Log Message**: Counter `profile-name` in accounting profile `counter-name` is not defined in a firewall using this filter profile

**Description**: The indicated filter profile referenced the indicated counter name, which is not defined in a firewall filter that uses the filter profile.

**Type**: Error: An error occurred  
**Severity**: warning  
**Facility**: ANY  
**Action**: Change the filter profile counter name to match the name defined in the firewall configuration.

## ACCT_XFER_FAILED

**System Log Message**: Error transferring `filename`

**Description**: An attempt to transfer the indicated file failed.

**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_PFE

## ACCT_XFER_POPEN_FAIL

**System Log Message**: `error-code` in invoking command `command` to transfer file `filename`

**Description**: A call to the `popen()` function failed when the accounting statistics process invoked the indicated command to transfer the indicated file.

**Type**: Error: An error occurred  
**Severity**: error
Facility  LOG_PFE
Action    For more information, see KB18750.
CHAPTER 3

ALARMD System Log Messages

This chapter describes messages with the ALARMD prefix. They are generated by the alarm process (alarmd).

**ALARMD_CONFIG_ACCESS_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The alarm process (alarmd) experienced the indicated problem while attempting to parse the configuration database.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**ALARMD_CONFIG_CLOSE_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to close configuration database</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The alarm process (alarmd) could not close the configuration database.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**ALARMD_CONFIG_PARSE_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to parse configuration; using defaults</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The alarm process (alarmd) could not parse the configuration and used default values while initializing.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
</tbody>
</table>
Facility  LOG_DAEMON  
Action  Contact your technical support representative.

**ALARMD_CONFIG_RECONFIG_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Re-configuration failed, using previous values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The alarm process (alarmd) could not parse new configuration and used previous values.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**ALARMD_CONNECTION_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>after count attempts process-name connect returned error: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The alarm process (alarmd) was unable to connect to the indicated process</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**ALARMD_DECODE_ALARM_OBJECT_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Cannot decode error test from object alarm-object, reason alarm-reason for if_name interface-type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The alarm process (alarmd) encountered invalid alarm object.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**ALARMD_EXISTS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>alarmd already running; exiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The alarm process (alarmd) exited because it discovered that another alarmd process is already running.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
ALARMD_EXISTS_TERM_OTHER

System Log Message  Killing existing alarmd and exiting

Description  The alarm process (alarmd) discovered that another alarmd process is already running. It terminated the other process and exited.

Type  Event: This message reports an event, not an error

Severity  error

Facility  LOG_DAEMON

ALARMD_IFDALARmA_TYPE_ERROR

System Log Message  Unknown interface alarm type: alarm-type

Description  The alarm process (alarmd) could not recognize an interface type alarm due to it's unknown alarm type.

Type  Error: An error occurred

Severity  error

Facility  LOG_DAEMON

Action  Contact your technical support representative.

ALARMD_IFDEV_RTSLIB_FAILURE

System Log Message  function-name: library-function-name failed on error-message socket (socket-option)

Description  The alarm process (alarmd) failed to access an interface device because an error occurred during the indicated call to the routing socket library.

Type  Error: An error occurred

Severity  error

Facility  LOG_DAEMON

Action  Contact your technical support representative.

ALARMD_IPC_MSG_ERROR

System Log Message  function-name: error code error-code, type message-type, subtype message-subtype, opcode message-opcode

Description  The alarm process (alarmd) detected an error in an interprocess communication (IPC) message with the indicated characteristics.

Type  Error: An error occurred

Severity  error

Facility  LOG_DAEMON
Action | Contact your technical support representative.

**ALARMD_IPC_MSG_WRITE_ERROR**

**System Log Message** | alarmd_send_msg: ipc_msg_write failed: error-message.
**Description** | The alarm process (alarmd) is not able to write a new ipc message to the given ipc pipe.
**Type** | Error: An error occurred
**Severity** | warning
**Facility** | LOG_DAEMON

**ALARMD_IPC_UNEXPECTED_CONN**

**System Log Message** | Invalid connection id: connection-who
**Description** | The alarm process (alarmd) received an ipc message from an unexpected connection.
**Type** | Error: An error occurred
**Severity** | error
**Facility** | LOG_DAEMON
**Action** | Contact your technical support representative.

**ALARMD_IPC_UNEXPECTED_MSG**

**System Log Message** | function-name: invalid message received: message (message type message-type, subtype message-subtype)
**Description** | The alarm process (alarmd) received an unexpected message with the indicated characteristics.
**Type** | Error: An error occurred
**Severity** | error
**Facility** | LOG_DAEMON
**Action** | Contact your technical support representative.

**ALARMD_MEM_ALLOC_FAILURE**

**System Log Message** | function-name: alarmd memory allocation failed
**Description** | The alarm process (alarmd) could not allocate memory.
**Type** | Error: An error occurred
**Severity** | error
**Facility** | LOG_DAEMON
**Action** | Contact your technical support representative.
ALARMD_MGR_CONNECT

System Log Message  function-name evSelectFD: initial pipe create aborted (errno error-code)
Description  The alarm process (alarmd) could not open a pipe for interprocess communication (IPC).
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative.

ALARMD_MULTIPLE_ALARM_BIT_ERROR

System Log Message  Multiple alarm bits: 0xalarm-bit
Description  The alarm process (alarmd) expected one alarm bit set for an interface alarm when it received multiple.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative.

ALARMD_PIDFILE_OPEN

System Log Message  Unable to open PID file 'filename': errno error-code
Description  The alarm process (alarmd) could not open the file where it stores its process ID (PID).
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Cause  The alarm process (alarmd) might have detected that another alarmd process was running and tried to read the file so that it could use the PID recorded there when terminating the other process.

ALARMD_PIPE_WRITE_ERROR

System Log Message  Pipe write error: error-message
Description  The alarm process (alarmd) experienced a fatal error while writing to a pipe.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Cause  There was no reader for the pipe.

**ALARMD_SOCKET_CREATE**

**System Log Message**  Unable to create socket for *process-name* connection: errno *error-code*

**Description**  The alarm process (alarmd) could not create socket.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**ALARMD_UNEXPECTED_EXIT**

**System Log Message**  evMainLoop returned *return-value* (errno *error-code*)

**Description**  The alarm process (alarmd) exited unexpectedly and reported the indicated error.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON
This chapter describes messages with the **ANALYZER** prefix on the Juniper Networks EX Series switches. They are generated by the sample process (sampled), which gathers information on mirrored traffic analysis for EX Series switches.

### ANALYZER_INPUT_INTERFACES_LIMIT

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Number of analyzer input interface is exceeding <em>error-message</em>.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>In an analyzer session, the number of input interfaces exceeded the platform limit.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>alert</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the **ANCPD** prefix. They are generated by the Access Node Control Protocol process (ancpd), also known as Layer 2 control (l2c), which works with a special Internet Group Management Protocol (igmp) session to collect outgoing interface (oif) mapping events in a scalable manner.

### ANCPD_COMMAND_OPTIONS

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ancpd_cmd_opts</td>
<td>ancpd_cmd_opts called with option index arg argument</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the **ANTISPAM** prefix. They are generated by the antispam process, which decides what action should be performed when the device detects a message that it deems to be spam.

### ANTISPAM_SPAM_DETECTED_MT

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>AntiSpam: SPAM detected: <em>source-name</em> <em>(source-address)</em> action reason: <em>reason</em></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The email is detected as a spam; the IP address of the source and its name will be logged together with the reason for it being categorized as spam</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>info</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>The email is detected as a spam</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Verify the spam to make sure it is not a false positive</td>
</tr>
</tbody>
</table>
APPID System Log Messages

This chapter describes messages with the APPID prefix. They are generated by the application identification process (appid), which is a passive application protocol identification library that implements a state machine for efficient pattern matching of regex-like application content signatures.

APPID_SIGNATURE_LICENSE_EXPIRED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPID signature update license(ID=feature-id) has expired</td>
<td>APPID signature update license key has expired. Signature update may not work any more.</td>
<td>Event: This message reports an event, not an error</td>
<td>warning</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the **APPIDD** prefix. They are generated by the application identification process (appid), which is a passive application protocol identification library that implements a state machine for efficient pattern matching of regex-like application content signatures.

### APPIDD_APPPACK_DOWNLOAD_RESULT

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Application package download result</td>
</tr>
<tr>
<td>Description</td>
<td>Application package download result</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### APPIDD_APPPACK_INSTALL_RESULT

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Application package install result</td>
</tr>
<tr>
<td>Description</td>
<td>Application package install result</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### APPIDD_APPPACK_UNINSTALL_RESULT

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Application package uninstall result</td>
</tr>
<tr>
<td>Description</td>
<td>Application package uninstall result</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### APPIDD_DAEMON_INIT_FAILED

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Aborted. A failure was encountered error-message</td>
</tr>
<tr>
<td>Description</td>
<td>An attempt to start AI policy daemon failed because an error was encountered during initialization.</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**APPIDD_INTERNAL_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Internal Error(error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Application-Identification daemon encountered an internal error</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**APPIDD_SCHEDULED_UPDATE_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to update application package error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The scheduled application-identification application package update failed to start.</td>
</tr>
<tr>
<td></td>
<td>Device will try it again at the next scheduled time</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
APPXY System Log Messages

This chapter describes messages with the APPXY prefix. They are generated by the Application Proxy process (appxyd) which performs all of the services of a proxy, but only for specific applications. The application proxy will only process packets that related to the applications it supports.

APPXY_RESOURCE_OVERUSED_MT

System Log Message  ApplicationProxy: Suspicious client source-address:source-port
(->destination-address:destination-port) used percentage-value connections, which exceeded the maximum allowed maximum-value connections

Description  For ApplicationProxy, the amount of traffic from the specified source address exceeded the amount permitted from one source. The maximum amount of traffic from one source is a fixed percentage of the total amount of traffic

Type  Event: This message reports an event, not an error
Severity  error
Facility  LOG_PFE

APPXY_SESSION_ABORT_MT

System Log Message  ApplicationProxy: session from source-address:source-port
to destination-address:destination-port aborted due to error-message (code error-code)

Description  Report application protocol (ftp/http/pop3/smtp/imap) session is aborted

Type  Event: This message reports an event, not an error
Severity  warning
Facility  LOG_PFE
APPTRACK System Log Messages

This chapter describes messages with the APPTRACK prefix. They are generated by the application tracking process (apptrack).

**APPTRACK_SESSION_APP_UPDATE**

**System Log Message**

AppTrack app update: source-address/source-port -> destination-address/destination-port
service-name application nested-application
nat-source-address/nat-source-port -> nat-destination-address/nat-destination-port
src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name
destination-zone-name session-id-32 packets-from-client (bytes-from-client)
packets-from-server (bytes-from-server) elapsed-time username roles

**Description**

A log message was sent by AppTrack, an application tracking tool, when an application identification service identified an application in the session.

**Type**

Event: This message reports an event, not an error

**Severity**

info

**Facility**

ANY

**APPTRACK_SESSION_APP_UPDATE_LS**

**System Log Message**

Lsys logical-system-name: AppTrack app update:
source-address/source-port -> destination-address/destination-port
service-name application nested-application
nat-source-address/nat-source-port -> nat-destination-address/nat-destination-port
src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name
destination-zone-name session-id-32 packets-from-client (bytes-from-client)
packets-from-server (bytes-from-server) elapsed-time username roles

**Description**

A log message was sent by AppTrack, an application tracking tool, when an application identification service identified an application in the session.

**Type**

Event: This message reports an event, not an error

**Severity**

info

**Facility**

ANY
APPTRACK_SESSION_CLOSE

System Log Message  AppTrack session closed reason:
source-address/source-port-destination-address/destination-port service-name
application nested-application
nat-source-address/nat-source-port-nat-destination-address/nat-destination-port
src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name
destination-zone-name session-id-32 packets-from-client(bytes-from-client)
packets-from-server(bytes-from-server) elapsed-time username roles

Description  A security session being tracked by AppTrack, an application tracking tool, was closed.

Type  Event: This message reports an event, not an error
Severity  info
Facility  ANY

APPTRACK_SESSION_CLOSE_LS

System Log Message  Lsys logical-system-name: AppTrack session closed reason:
source-address/source-port-destination-address/destination-port service-name
application nested-application
nat-source-address/nat-source-port-nat-destination-address/nat-destination-port
src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name
destination-zone-name session-id-32 packets-from-client(bytes-from-client)
packets-from-server(bytes-from-server) elapsed-time username roles

Description  A security session being tracked by AppTrack, an application tracking tool, was closed.

Type  Event: This message reports an event, not an error
Severity  info
Facility  ANY

APPTRACK_SESSION_CREATE

System Log Message  AppTrack session created
source-address/source-port-destination-address/destination-port service-name
application nested-application
nat-source-address/nat-source-port-nat-destination-address/nat-destination-port
src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name
destination-zone-name session-id-32 username roles

Description  A security session that will be monitored by AppTrack, an application tracking tool, was created.

Type  Event: This message reports an event, not an error
Severity  info
Facility  ANY
### APPTRACK_SESSION_CREATE_LS

**System Log Message**  
Lsys logical-system-name: AppTrack session created  
source-address/source-port-destination-address/destination-port service-name  
application nested-application  
nat-source-address/nat-source-port-nat-destination-address/nat-destination-port  
src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name  
destination-zone-name session-id-32 username roles

**Description**  
A security session that will be monitored by AppTrack, an application tracking tool, was created.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
ANY

### APPTRACK_SESSION_VOL_UPDATE

**System Log Message**  
AppTrack volume update:  
source-address/source-port-destination-address/destination-port service-name  
application nested-application  
nat-source-address/nat-source-port-nat-destination-address/nat-destination-port  
src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name  
destination-zone-name session-id-32 packets-from-client(bytes-from-client)  
packets-from-server(bytes-from-server) elapsed-time username roles

**Description**  
Apptrack, an application tracking tool, sent periodic updates on the volume (byte and packet count) for the session that it is monitoring. The update interval is determined by the configuration.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
ANY

### APPTRACK_SESSION_VOL_UPDATE_LS

**System Log Message**  
Lsys logical-system-name: AppTrack volume update:  
source-address/source-port-destination-address/destination-port service-name  
application nested-application  
nat-source-address/nat-source-port-nat-destination-address/nat-destination-port  
src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name  
destination-zone-name session-id-32 packets-from-client(bytes-from-client)  
packets-from-server(bytes-from-server) elapsed-time username roles

**Description**  
Apptrack, an application tracking tool, sent periodic updates on the volume (byte and packet count) for the session that it is monitoring. The update interval is determined by the configuration.

**Type**  
Event: This message reports an event, not an error
<table>
<thead>
<tr>
<th>Severity</th>
<th>info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>
CHAPTER 11

ASP System Log Messages

This chapter describes messages with the ASP prefix. They are generated by services on the Adaptive Services PIC (AS PIC), such as stateful firewall, Network Address Translation (NAT), and intrusion detection service (IDS). For information about configuring system logging for services on the AS PIC, see the Junos Services Interfaces Configuration Guide.

For information about the fields in messages with the ASP prefix, see “Interpreting Messages Generated in Standard Format by Services on a PIC” on page 43.

### ASP_COS_RULE_MATCH

**System Log Message**

```
syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type rule-set: rule-set-name, rule: rule-name, term: term-name
```

**Description**

A packet matched the indicated term in the indicated class-of-service (CoS) rule. If the rule belongs to a rule set, the name of the rule set is also displayed. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**

Event: This message reports an event, not an error

**Severity**

info

**Facility**

LOG_PFE

### ASP_IDS_HOST_RATE

**System Log Message**

```
Host destination-address, event-type ... rate=rate events/sec
```

**Description**

The indicated event occurred at the indicated rate (events per second) for the indicated destination IP address. The rate exceeds the intrusion detection services (IDS) threshold configured with the ‘threshold’ statement at the [edit services rule <rule-name> term <term-name> then logging] hierarchy level. This message is logged every 60 seconds until the rate no longer exceeds the threshold.

**Type**

Event: This message reports an event, not an error

**Severity**

error
Facility  LOG_PFE

**ASP_IDS_HOST_RATE_APP**

**System Log Message**
Host destination-address (application), event-type ... rate=rate events/sec

**Description**
The indicated event occurred at the indicated rate (events per second) for the indicated application at the indicated destination IP address. The rate exceeds the intrusion detection services (IDS) threshold set by the 'threshold' statement at the [edit services ids rule <rule-name> term <term-name> then logging] hierarchy level. The application is specified by the 'applications' or 'application-sets' statement at the [edit services ids rule <rule-name> term <term-name> from] hierarchy level. This message is logged every 60 seconds until the rate no longer exceeds the threshold.

**Type**
Event: This message reports an event, not an error

**Severity**
error

**Facility**
LOG_PFE

**ASP_IDS_INV_CLEAR_QUERY**

**System Log Message**
CLEAR: Invalid query type received-value expecting expected-value

**Description**
Intrusion detection services (IDS) received a request to clear information from IDS tables. The request included the indicated type of query, which IDS cannot interpret.

**Type**
Error: An error occurred

**Severity**
critical

**Facility**
LOG_PFE

**Action**
Contact your technical support representative. For more information, see KB18751.

**ASP_IDS_INV_CLEAR_QUERY_VER**

**System Log Message**
CLEAR: Invalid query version received-value expecting expected-value

**Description**
Intrusion detection services (IDS) received a request to clear information from IDS tables. The request's version number did not match the version number of requests that IDS can service.

**Type**
Error: An error occurred

**Severity**
critical

**Facility**
LOG_PFE

**Action**
Contact your technical support representative. For more information, see KB18752.

**ASP_IDS_INV_SHOW_QUERY**

**System Log Message**
SHOW: Invalid query type received-value expecting expected-value
Description: Intrusion detection services (IDS) received a request to show information from IDS tables. The request included the indicated type of query, which IDS cannot interpret.

**Type**: Error: An error occurred

**Severity**: critical

**Facility**: LOG_PFE

**Action**: Contact your technical support representative.

**ASP_IDS_INV_SHOW_QUERY_VER**

**System Log Message**

SHOW: Invalid query version *received-value* expecting *expected-value*

**Description**: Intrusion detection services (IDS) received a request to show information from IDS tables. The request’s version number did not match the version number of requests that IDS can service.

**Type**: Error: An error occurred

**Severity**: critical

**Facility**: LOG_PFE

**Action**: Contact your technical support representative.

**ASP_IDS_LIMIT_FLOW_RATE_BY_DEST**

**System Log Message**

`syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type`

**Description**: The stateful firewall discarded the packet with the indicated characteristics and did not create a new flow, because the flow rate at the firewall exceeded the intrusion detection services (IDS) limit configured by the 'rate' statement at the [edit services ids rule <rule-name> term <term-name> then session-limit by-destination] hierarchy level. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**: Event: This message reports an event, not an error

**Severity**: notice

**Facility**: LOG_PFE

**ASP_IDS_LIMIT_FLOW_RATE_BY_PAIR**

**System Log Message**

`syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type`

**Description**: The stateful firewall discarded the packet with the indicated characteristics and did not create a new flow, because the flow rate at the firewall exceeded the intrusion detection...
services (IDS) limit configured by the 'rate' statement at the [edit services ids rule <rule-name> term <term-name> then session-limit by-pair] hierarchy level. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_PFE

**ASP_IDS_LIMIT_FLOW_RATE_BY_SRC**

System Log Message syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description The stateful firewall discarded the packet with the indicated characteristics and did not create a new flow, because the flow rate at the firewall exceeded the intrusion detection services (IDS) limit configured by the 'rate' statement at the [edit services ids rule <rule-name> term <term-name> then session-limit by-source] hierarchy level. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_PFE

**ASP_IDS_LIMIT_OPEN_FLOWS_BY_DEST**

System Log Message syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description The stateful firewall discarded the packet with the indicated characteristics and did not create a new flow, because the number of open flows exceeded the intrusion detection services (IDS) limit configured by the 'maximum' statement at the [edit services ids rule <rule-name> term <term-name> then session-limit by-destination] hierarchy level. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_PFE
ASP_IDS_LIMIT_OPEN_FLOWS_BY_PAIR

System Log Message syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -&gt; destination-addressdestination-port, event-type

Description The stateful firewall discarded the packet with the indicated characteristics and did not create a new flow, because the number of open flows exceeded the intrusion detection services (IDS) limit configured by the 'maximum' statement at the [edit services ids rule &lt;rule-name&gt; term &lt;term-name&gt; then session-limit by-pair] hierarchy level. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_PFE

ASP_IDS_LIMIT_OPEN_FLOWS_BY_SRC

System Log Message syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -&gt; destination-addressdestination-port, event-type

Description The stateful firewall discarded the packet with the indicated characteristics and did not create a new flow, because the number of open flows exceeded the intrusion detection services (IDS) limit configured by the 'maximum' statement at the [edit services ids rule &lt;rule-name&gt; term &lt;term-name&gt; then session-limit by-source] hierarchy level. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_PFE

ASP_IDS_LIMIT_PKT_RATE_BY_DEST

System Log Message syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -&gt; destination-addressdestination-port, event-type

Description The stateful firewall discarded the packet with the indicated characteristics, because the number of packets per second (aggregated over all monitored flows) exceeded the intrusion detection services (IDS) limit configured by the 'packets' statement at the [edit services ids rule &lt;rule-name&gt; term &lt;term-name&gt; then session-limit by-destination] hierarchy level. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).
Type Event: This message reports an event, not an error
Severity notice
Facility LOG_PFE

**ASP_IDS_LIMIT_PKT_RATE_BY_PAIR**

**System Log Message**
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

**Description**
The stateful firewall discarded the packet with the indicated characteristics, because the number of packets per second (aggregated over all monitored flows) exceeded the intrusion detection services (IDS) limit configured by the 'packets' statement at the [edit services ids rule <rule-name> term <term-name> then session-limit by-pair] hierarchy level. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_PFE

**ASP_IDS_LIMIT_PKT_RATE_BY_SRC**

**System Log Message**
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

**Description**
The stateful firewall discarded the packet with the indicated characteristics, because the number of packets per second (aggregated over all monitored flows) exceeded the intrusion detection services (IDS) limit configured by the 'packets' statement at the [edit services ids rule <rule-name> term <term-name> then session-limit by-source] hierarchy level. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_PFE

**ASP_IDS_NO_MEM_SHOW_CMD**

**System Log Message**
Not enough memory for show command

**Description**
Intrusion detection services (IDS) could not service a request to show information from IDS tables, because not enough memory was available.

Type Error: An error occurred
Severity critical
Facility LOG_PFE

**ASP_IDS_NULL_CLEAR_QUERY**

- **System Log Message**: Failure: NULL query for CLEAR command.
- **Description**: Intrusion detection services (IDS) invoked a query handler to service a request to clear information from IDS tables. The handler did not receive the request.
- **Type**: Event: This message reports an event, not an error
- **Severity**: critical
- **Facility**: LOG_PFE
- **Action**: Contact your technical support representative.

**ASP_IDS_NULL_SHOW_QUERY**

- **System Log Message**: Failure: NULL query for SHOW command.
- **Description**: Intrusion detection services (IDS) invoked a query handler to service a request to show information from IDS tables. The handler did not receive the request.
- **Type**: Event: This message reports an event, not an error
- **Severity**: critical
- **Facility**: LOG_PFE
- **Action**: Contact your technical support representative.

**ASP_IDS_RULE_MATCH**

- **System Log Message**: syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type rule-set: rule-set-name, rule: rule-name, term: term-name
- **Description**: A packet matched the indicated term in the indicated intrusion detection services (IDS) rule. If the rule belongs to a rule set, the rule set name is also displayed. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).
- **Type**: Event: This message reports an event, not an error
- **Severity**: info
- **Facility**: LOG_PFE

**ASP_IDS_SYN_COOKIE_OFF**

- **System Log Message**: Host destination-address, SYN-COOKIE protection deactivated
Intrusion detection services (IDS) deactivated SYN cookie protection for the indicated destination address. IDS deactivates this protection when it learns from the stateful firewall that the rate of certain events has returned to a level below the threshold set by the 'threshold' statement at the [edit services ids rule <rule-name> term <term-name> then syn-cookie] hierarchy level. The relevant events include the ones reported by the ASP_IDS_TCP_SYN_ATTACK, ASP_SFW_SYN_DEFENSE, and ASP_SFW_TCP_SCAN system log messages.

Type: Event: This message reports an event, not an error
Severity: error
Facility: LOG_PFE

**ASP_IDS_SYN_COOKIE_ON**

**System Log Message**

Host destination-address, SYN-COOKIE protection activated

**Description**

Intrusion detection services (IDS) activated SYN cookie protection for the indicated destination address, because it learned from the stateful firewall that the rate of certain events exceeded the threshold set by the 'threshold' statement at the [edit services ids rule <rule-name> term <term-name> then syn-cookie] hierarchy level. The events include the ones reported by the ASP_IDS_TCP_SYN_ATTACK, ASP_SFW_SYN_DEFENSE, and ASP_SFW_TCP_SCAN system log messages. When SYN cookie protection is activated for a flow to a destination and the TCP handshake has not completed, the stateful firewall generates a SYN/ACK packet for each SYN packet directed to the destination.

Type: Event: This message reports an event, not an error
Severity: error
Facility: LOG_PFE

**ASP_IDS_TCP_SYN_ATTACK**

**System Log Message**

syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port - > destination-addressdestination-port, event-type

**Description**

The stateful firewall received the packet with the indicated characteristics and determined that it was a duplicate Transmission Control Protocol (TCP) SYN packet (the SYN flag was set and a SYN packet was already received for the flow to the destination). The event was reported to intrusion detection services (IDS) and can cause IDS to activate SYN cookie protection. The packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type: Event: This message reports an event, not an error
Severity: error
Facility: LOG_PFE
ASP_L2TP_MESSAGE_INCOMPLETE

System Log Message  IPC message lacked variable portion
Description  The Layer 2 Tunneling Protocol (L2TP) did not process an interprocess communication (IPC) message because the variable portion of the message was missing.
Type  Error: An error occurred
Severity  error
Facility  LOG_PFE

ASP_L2TP_NO_MEM

System Log Message  Unable to allocate memory for L2TP flow for tunnel tunnel-id, session session-id
Description  The Layer 2 Tunneling Protocol (L2TP) could not allocate the memory it needed to create a flow for the indicated tunnel and session.
Type  Error: An error occurred
Severity  error
Facility  LOG_PFE
Action  For more information, see KB18753.

ASP_L2TP_OBJ_CAC_FAIL

System Log Message  Unable to allocate object-cache memory for flow (unit unit-id, tunnel tunnel-id, session session-id)
Description  The Layer 2 Tunneling Protocol (L2TP) could not allocate memory from an object cache for the flow defined by the indicated unit, tunnel, and session.
Type  Error: An error occurred
Severity  error
Facility  LOG_PFE
Action  For more information, see KB18754.

ASP_L2TP_STATS_BULK_QUERY_FAILED

System Log Message  Number of queries (num-queries) in statistics request exceeded limit (max-queries)
Description  The Layer 2 Tunneling Protocol (L2TP) did not process an interprocess communication (IPC) request for statistics because it included the indicated number of queries, which exceeds the limit as indicated.
Type  Error: An error occurred
Severity  error
<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_PFE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASP_L2TP_STATS_VERSION_INVALID</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Invalid version received-value on statistics request (expected expected-value)</td>
</tr>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) received a request for statistics with the indicated version, which is not the indicated, supported version.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
<tr>
<td><strong>ASP_L2TP_TUN_GRP_ADD_FAIL_ALLOC</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to add tunnel group for service set service-set: could not allocate ID</td>
</tr>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol (L2TP) could not add a tunnel group for the indicated service set because it could not allocate an internal ID.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
<tr>
<td><strong>ASP_L2TP_TUN_GRP_ADD_FAIL_EXISTS</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to add tunnel group group-id: it already exists</td>
</tr>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol (L2TP) could not add a tunnel group with the indicated ID because it already existed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
<tr>
<td><strong>ASP_L2TP_TUN_GRP_CHG_FAIL_ALLOC</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to change tunnel group for service set service-set: could not allocate ID</td>
</tr>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol (L2TP) could not change a tunnel group for the indicated service set because it could not allocate an internal ID.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
<tr>
<td><strong>ASP_L2TP_TUN_GRP_CHG_FAIL_INVLD</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to change tunnel group group-id: ID is invalid</td>
</tr>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol (L2TP) could not change the tunnel group with the indicated internal ID, because the ID is invalid.</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**ASP_L2TP_TUN_GRP_DEL_FAIL_INVLD**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to delete tunnel group group-id: ID is invalid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol (L2TP) could not delete the tunnel group with the indicated internal ID, because the ID is invalid.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**ASP_NAT_OUTOF_ADDRESSES**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>natpool nat-pool-name is out of addresses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Network Address Translation (NAT) services could not allocate an address from the indicated NAT pool, because no addresses were available.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**ASP_NAT_OUTOF_PORTS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>natpool nat-pool-name is out of ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Network Address Translation (NAT) services could not allocate a port from the indicated NAT pool, because no ports were available.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**ASP_NAT_POOL_RELEASE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>natpool release address:port[count]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Network Address Translation (NAT) services made the indicated number of ports available in the pool for the indicated address, starting at the indicated port number.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>info</td>
</tr>
</tbody>
</table>
Facility LOG_PFE

**ASP_NAT_PORT_BLOCK_ALLOC**

System Log Message `source-address -> nat-source-address:nat-source-port-range-start-nat-source-port-range-end`

**Description**
When port block allocation is configured, a port block is allocated and assigned to a private IP if it is a first connection of a first connection or if there are no ports available in a previously allocated port block.

**Type** Event: This message reports an event, not an error
**Severity** info
**Facility** LOG_PFE

**ASP_NAT_PORT_BLOCK_RELEASE**

System Log Message `source-address -> nat-source-address:nat-source-port-range-start-nat-source-port-range-end`

**Description**
The allocated port block is released.

**Type** Event: This message reports an event, not an error
**Severity** info
**Facility** LOG_PFE

**ASP_NAT_RULE_MATCH**

System Log Message `syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-namesseparatorsource-address;source-port -> destination-addressdestination-port, event-type rule-set: rule-set-name, rule: rule-name, term: term-name`

**Description**
A packet matched the indicated term in the indicated Network Address Translation (NAT) rule. If the rule belongs to a rule set, the rule set name is also displayed. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type** Event: This message reports an event, not an error
**Severity** info
**Facility** LOG_PFE

**ASP_PGCP_IPC_MSG_WRITE_FAILED**

System Log Message Unable to write IPC message (type message-type, subtype message-subtype): status code status

**Description**
The Packet Gateway Control Protocol (PGCP) client on the MultiServices PIC could not write an interprocess communication (IPC) message to the end of its pipe.
**ASP_PGCP_IPC_PIPE_WRITE_FAILED**

System Log Message: Unable to write IPC message (type message-type, subtype message-subtype) to pipe: status code status.

Description: The Packet Gateway Control Protocol (PGCP) client on the MultiServices PIC could not write the contents of its interprocess communication (IPC) pipe to the socket layer.

**ASP_SFW_ALG_LEVEL_ADJUSTED**

System Log Message: ALG sfw-application-name specified by stateful firewall or CoS rule was reduced to nat-application-name, because twice NAT does not support ALG application.

Description: A twice Network Address Translation (NAT) rule is applied to the same source or destination addresses as a stateful firewall or class-of-service (CoS) rule that applies an application-level gateway (ALG) other than Internet Control Message Protocol (ICMP) or traceroute. The configuration is invalid, because only those ALGs are supported in combination with twice NAT. The ALG configured in the stateful firewall or CoS rule was ignored, and only the application configured in the twice-NAT rule was applied. The adaptive services software accomplished this internally by adjusting the indicated ALG value (which is not supported with twice NAT) to the indicated supported value.

**ASP_SFW_ALG_PROMOTION_FAILED**

System Log Message: ALG promotion failed. Stateful firewall application sfw-application-name conflicts with NAT application nat-application-name or conflicts with QoS application; request creation of discard flow.
A matching application-level gateway protocol (ALG) was found from both the indicated stateful firewall rule and either the indicated Network Address Translation (NAT) rule or a quality-of-service (QoS) rule, but the two ALGs were not at the same level.

Type: Event
Severity: critical
Facility: LOG_PFE
Action: Resolve the conflicting application-protocol matching conditions in the rules at the [edit services stateful-firewall] hierarchy level and either the [edit services cos] (for QoS rules) or [edit services nat] (for NAT rules) hierarchy level.

ASP_SFW_APP_MSG_TOO_LONG

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type

Description: The stateful firewall discarded the Transmission Control Protocol (TCP) packet with the indicated characteristics, because the packet was so large that it exhausted memory resources. The packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type: Event
Severity: notice
Facility: LOG_PFE
Action: Delete active flows to forcibly free memory, or wait for the system to reclaim memory. Consider creating more service sets among which resources can be divided. Otherwise, contact your technical support representative.

ASP_SFW_CHANGE_INACTIVITY_TIMER

System Log Message: change global inactivity timer to value1 open timeout to value2

Description: The global inactivity timer and the open timeout were set to the indicated values.

Type: Event
Severity: critical
Facility: LOG_PFE

ASP_SFW_CREATE_ACCEPT_FLOW

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type nat-information softwire-information
The packet with the indicated characteristics matched a stateful firewall rule that has the 'accept' action, and the stateful firewall created a flow. If the flow requires Network Address Translation (NAT) services, NAT information appears at the end of the message. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number), and if relevant, Softwire source and destination IP addresses.

**Type**: Event: This message reports an event, not an error

**Severity**: info

**Facility**: LOG_PFE

### ASP_SFW_CREATE_DISCARD_FLOW

**System Log Message**: syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-nameseparatorsource-addresssource-port -> destination-addressdestination-port, event-type

**Description**: The packet with the indicated characteristics matched a stateful firewall rule that has the 'discard' action, and the stateful firewall created a discard flow. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**: Event: This message reports an event, not an error

**Severity**: notice

**Facility**: LOG_PFE

### ASP_SFW_CREATE_REJECT_FLOW

**System Log Message**: syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-nameseparatorsource-addresssource-port -> destination-addressdestination-port, event-type

**Description**: The packet with the indicated characteristics matched a stateful firewall rule that has the 'reject' action, and the stateful firewall created a reject flow. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**: Event: This message reports an event, not an error

**Severity**: notice

**Facility**: LOG_PFE

### ASP_SFW_DELETE_FLOW

**System Log Message**: syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-nameseparatorsource-addresssource-port -> destination-addressdestination-port, event-type nat-information softwire-information
Description: The flow with the indicated characteristics was removed from the system. If the flow required Network Address Translation (NAT) services, NAT information appears at the end of the message. The flow indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), destination (IP address and port number), and if relevant, Softwire source and destination IP addresses.

Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_PFE

ASP_SFW_FTP_ACTIVE_ACCEPT

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-namemseparatorsource-address;source-port -> destination-addressdestination-port, event-type nat-information

Description: When the stateful firewall receives PORT/EPRT commands in the control channel, it creates a flow in anticipation of an FTP data connection from client to server. The packet with the indicated characteristics matched such a flow. If the flow requires Network Address Translation (NAT) services, NAT information appears at the end of the message. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_PFE

ASP_SFW_FTP_PASSIVE_ACCEPT

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-namemseparatorsource-address;source-port -> destination-addressdestination-port, event-type nat-information

Description: When the stateful firewall receives PASV/EPSV commands in the control channel, it creates a flow in anticipation of an FTP data connection from server to client. The packet with the indicated characteristics matched such a flow. If the flow requires Network Address Translation (NAT) services, NAT information appears at the end of the message. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_PFE
ASP_SFW_ICMP_ERROR_DROP

System Log Message  syslog-prefix error-code: proto protocol-id (protocol-name),
                      source-interface-nameseparatorsource-address:source-port ->
                      destination-addressdestination-port, event-type

Description  The stateful firewall discarded the Internet Control Message Protocol (ICMP) error packet
              with the indicated characteristics, because the packet did not belong to an existing flow.
              The discarded packet contained the indicated information about its protocol (numerical
              identifier and name), source (logical interface name, IP address, and port number), and
              destination (IP address and port number).

Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_PFE

ASP_SFW_ICMP_HEADER_LEN_ERROR

System Log Message  syslog-prefix error-code: proto protocol-id (protocol-name),
                      source-interface-nameseparatorsource-address:source-port ->
                      destination-addressdestination-port, event-type

Description  The stateful firewall discarded the Internet Control Message Protocol (ICMP) packet
              with the indicated characteristics, because the length field in the packet header was
              shorter than the minimum 8 bytes required for an ICMP packet. The discarded packet
              contained the indicated information about its protocol (numerical identifier and name),
              source (logical interface name, IP address, and port number), and destination (IP address
              and port number).

Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_PFE

ASP_SFW_ICMP_PACKET_ERROR_LENGTH

System Log Message  syslog-prefix error-code: proto protocol-id (protocol-name),
                      source-interface-nameseparatorsource-address:source-port ->
                      destination-addressdestination-port, event-type

Description  The stateful firewall discarded the Internet Control Message Protocol (ICMP) error packet
              with the indicated characteristics, because the packet contained fewer than 48 bytes of
              data, or more than 576. The discarded packet contained the indicated information about
              its protocol (numerical identifier and name), source (logical interface name, IP address,
              and port number), and destination (IP address and port number).

Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_PFE
**ASP_SFW_IP_FRAG_ASSEMBLY_TIMEOUT**

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description: The stateful firewall discarded the packet with the indicated characteristics and all related IP fragments it had previously received, because all fragments did not arrive within the four-second reassembly timeout period. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_PFE

**ASP_SFW_IP_FRAG_OVERLAP**

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description: The stateful firewall discarded the packet with the indicated characteristics and all related IP fragments it had previously received, because the contents of two fragments overlapped. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_PFE

**ASP_SFW_IP_OPTION_DROP_PACKET**

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description: The stateful firewall discarded the packet with the indicated characteristics, because the packet contained nonconfigured IP option types. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_PFE
## ASP_SFW_IP_PACKET_CHECKSUM_ERROR

**System Log Message**

syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address;source-port ->
destination-addressdestination-port, event-type

**Description**
The stateful firewall discarded the packet with the indicated characteristics, because
the packet checksum was incorrect. The discarded packet contained the indicated
information about its protocol (numerical identifier and name), source (logical interface
name, IP address, and port number), and destination (IP address and port number).

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_PFE

## ASP_SFW_IP_PACKET_DST_BAD

**System Log Message**

syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address;source-port ->
destination-addressdestination-port, event-type

**Description**
The stateful firewall discarded the packet with the indicated characteristics, because
the packet destination address was either a multicast address or was in the range reserved
for experimental use (248.0.0.0 through 255.255.255.254). The discarded packet
contained the indicated information about its protocol (numerical identifier and name),
source (logical interface name, IP address, and port number), and destination (IP address
and port number).

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_PFE

## ASP_SFW_IP_PACKET_FRAG_LEN_INV

**System Log Message**

syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address;source-port ->
destination-addressdestination-port, event-type

**Description**
The stateful firewall discarded the packet with the indicated characteristics and all
related IP fragments it had previously received, because the length of a fragment was
invalid. The discarded packet contained the indicated information about its protocol
(numerical identifier and name), source (logical interface name, IP address, and port
number), and destination (IP address and port number).

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_PFE
### ASP_SFW_IP_PACKET_INCORRECT_LEN

**System Log Message**
```
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall discarded the IP packet with the indicated characteristics, because the packet length was invalid. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**
Event: This message reports an event, not an error

**Severity**
otice

**Facility**
LOG_PFE

### ASP_SFW_IP_PACKET_LAND_ATTACK

**System Log Message**
```
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall discarded the IP packet with the indicated characteristics, because the source and destination address for the packet were the same (referred to as a land attack). The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**
Event: This message reports an event, not an error

**Severity**
otice

**Facility**
LOG_PFE

### ASP_SFW_IP_PACKET_NOT_VERSION_4

**System Log Message**
```
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall discarded the IP packet with the indicated characteristics, because the packet version was not IP version 4 (IPv4). The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**
Event: This message reports an event, not an error

**Severity**
otice

**Facility**
LOG_PFE
ASP_SFW_IP_PACKET_PROTOCOL_ERROR

System Log Message  syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description  The stateful firewall discarded the IP packet with the indicated characteristics, because
the packet used an invalid protocol. The discarded packet contained the indicated
information about its protocol (numerical identifier and name), source (logical interface
name, IP address, and port number), and destination (IP address and port number).

Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_PFE

ASP_SFW_IP_PACKET_SRC_BAD

System Log Message  syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description  The stateful firewall discarded the packet with the indicated characteristics, because
the packet source address was one of the following: (1) a multicast address (2) a
broadcast address (3) in the range 127.0.0.0 through 127.255.255.255 (4) in the range
248.0.0.0 through 255.255.255.254, which is reserved for experimental use. The discarded
packet contained the indicated information about its protocol (numerical identifier and
name), source (logical interface name, IP address, and port number), and destination
(IP address and port number).

Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_PFE

ASP_SFW_IP_PACKET_TOO_LONG

System Log Message  syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description  The stateful firewall discarded the IP packet with the indicated characteristics, because
the packet contained more than 64 kilobytes (KB) of data (referred to as a ping-of-death
attack). The discarded packet contained the indicated information about its protocol
(numerical identifier and name), source (logical interface name, IP address, and port
number), and destination (IP address and port number).

Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_PFE
**ASP_SFW_IP_PACKET_TOO_SHORT**

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:sourc-port ->
destination-addressdestination-port, event-type

Description: The stateful firewall discarded the IP packet with the indicated characteristics, because
the packet did not contain the minimum amount of data required. The discarded packet
contained the indicated information about its protocol (numerical identifier and name),
source (logical interface name, IP address, and port number), and destination (IP address
and port number).

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_PFE

**ASP_SFW_IP_PACKET_TTL_ERROR**

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:sourc-port ->
destination-addressdestination-port, event-type

Description: The stateful firewall discarded the IP packet with the indicated characteristics, because
the packet had a time-to-live (TTL) value of 0 (zero). The discarded packet contained
the indicated information about its protocol (numerical identifier and name), source
(logical interface name, IP address, and port number), and destination (IP address and
port number).

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_PFE

**ASP_SFW_NEW_POLICY**

System Log Message: install new configuration

Description: A new stateful firewall policy was installed.

Type: Event: This message reports an event, not an error

Severity: critical

Facility: LOG_PFE

**ASP_SFW_NO_IP_PACKET**

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:sourc-port ->
destination-addressdestination-port, event-type
The stateful firewall received the packet with the indicated characteristics, which was not an IP packet. The packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**ASP_SFW_NO_POLICY**

**System Log Message**

```
source-address -> destination-address
No policy
```

**Description**
The stateful firewall received packets with the indicated source and destination addresses. There was no matching policy for the traffic.

**ASP_SFW_NO_RULE_DROP**

**System Log Message**

```
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall discarded the packet with the indicated characteristics, because the packet did not match and stateful firewall rules. In this case, the default action is to discard the packet. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**ASP_SFW_PING_DUPLICATED_SEQNO**

**System Log Message**

```
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall discarded the Internet Control Message Protocol (ICMP) echo request packet with the indicated characteristics, because packet’s sequence number was the same as in a previous packet. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).
Severity: notice
Facility: LOG_PFE

**ASP_SFW_PING_MISMATCHED_SEQNO**

*System Log Message*
```plaintext
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

*Description*
The stateful firewall discarded the Internet Control Message Protocol (ICMP) echo reply packet with the indicated characteristics, because the firewall had not previously received an echo request packet with the same sequence number. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

*Type* Event: This message reports an event, not an error

Severity: notice
Facility: LOG_PFE

**ASP_SFW_PING_OUTOF_SEQNO_CACHE**

*System Log Message*
```plaintext
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

*Description*
The stateful firewall discarded the Internet Control Message Protocol (ICMP) echo request packet with the indicated characteristics, because it had not received echo replies for an excessive number of previously received echo requests. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

*Type* Event: This message reports an event, not an error

Severity: notice
Facility: LOG_PFE

**ASP_SFW_POLICY_REJECT**

*System Log Message*
```plaintext
reject configuration because reason
```

*Description*
A newly installed stateful firewall policy was rejected for the indicated reason.

*Type* Event: This message reports an event, not an error

Severity: critical
Facility: LOG_PFE
ASP_SFW_RULE_ACCEPT

**System Log Message**

syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type rule-set: rule-set-name, rule: rule-name, term: term-name

**Description**
The packet with the indicated characteristics matched the indicated term in the indicated stateful firewall rule, which has an 'accept' action. If the rule belongs to a rule set, the rule set name is also displayed. The stateful firewall accepted the flow to which the packet belongs. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
LOG_PFE

ASP_SFW_RULE_DISCARD

**System Log Message**

syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type rule-set: rule-set-name, rule: rule-name, term: term-name

**Description**
The packet with the indicated characteristics matched the indicated term in the indicated stateful firewall rule, which has a 'discard' action. If the rule belongs to a rule set, the rule set name is also displayed. The stateful firewall discarded the packet. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_PFE

ASP_SFW_RULE_REJECT

**System Log Message**

syslog-prefix error-code: proto protocol-id (protocol-name) application: application, source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type rule-set: rule-set-name, rule: rule-name, term: term-name

**Description**
The packet with the indicated characteristics matched the indicated term in the indicated stateful firewall rule, which has a 'reject' action. If the rule belongs to a rule set, the rule set name is also displayed. If the packet used the User Datagram Protocol (UDP), the stateful firewall generated an Internet Control Message Protocol (ICMP) error message. If the packet used the Transmission Control Protocol (TCP), the stateful firewall generated an RST packet. The matching packet contained the indicated information about its protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).
protocol (numerical identifier and name), application, source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**  
Event: This message reports an event, not an error

**Severity**  
notice

**Facility**  
LOG_PFE

**ASP_SFW_SYN_DEFENSE**

**System Log Message**  
syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-address:destination-port, event-type

**Description**  
The stateful firewall discarded the packet with the indicated characteristics, because the Transmission Control Protocol (TCP) handshake that is used to establish a session did not complete quickly enough. The time limit is set by the 'open-timeout' statement at the [edit interfaces <services-interface> services-options] hierarchy level or is four seconds by default. The event was reported to intrusion detection services (IDS) and can cause IDS to activate SYN cookie protection. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**  
Event: This message reports an event, not an error

**Severity**  
notice

**Facility**  
LOG_PFE

**Cause**  
Possible causes for the handshake failure include the following: (1) sequence numbers did not match in a SYN packet and a previous SYN packet (the second packet was not a retransmission) (2) sequence numbers did not match in a SYN/ACK packet and a previous SYN packet (3) either or both a SYN/ACK packet and an ACK packet did not arrive at the firewall within the time limit.

**ASP_SFW_TCP_BAD_SYN_COOKIE_RESP**

**System Log Message**  
syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-address:destination-port, event-type

**Description**  
The stateful firewall discarded the Transmission Control Protocol (TCP) ACK packet with the indicated characteristics, either because it is the first packet in a session, or because its sequence number did not match the sequence number in the SYN/ACK packet that the firewall previously generated for the session. The firewall generates SYN/ACK packets when SYN cookie protection is activated. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**  
Event: This message reports an event, not an error
### ASP_SFW_TCP_FLAGS_ERROR

**System Log Message**
```plaintext
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall discarded the Transmission Control Protocol (TCP) packet with the indicated characteristics, because the flags in the packet were set in one of the following combinations: (1) FIN and RST (2) SYN and one or more of FIN, RST, and URG. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**
Event: This message reports an event, not an error

**Severity** notice

**Facility** LOG_PFE

### ASP_SFW_TCP_HEADER_LEN_ERROR

**System Log Message**
```plaintext
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall discarded the Transmission Control Protocol (TCP) packet with the indicated characteristics, because the length field in the packet header was shorter than the minimum 20 bytes required for a TCP packet. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**
Event: This message reports an event, not an error

**Severity** notice

**Facility** LOG_PFE

### ASP_SFW_TCP_NON_SYN_FIRST_PACKET

**System Log Message**
```plaintext
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall discarded the Transmission Control Protocol (TCP) packet with the indicated characteristics, because it was the first packet in the TCP session but the SYN flag was not set. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**
Event: This message reports an event, not an error

**Severity** notice

**Facility** LOG_PFE
Severity notice
Facility LOG_PFE

**ASP_SFW_TCP_PORT_ZERO**

**System Log Message**

```
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall discarded the Transmission Control Protocol (TCP) packet with the indicated characteristics, because the source or destination port specified in the packet was zero (0). The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type** Event: This message reports an event, not an error

**Severity** notice

**Facility** LOG_PFE

**ASP_SFW_TCP_RECONSTRUCT_DROP**

**System Log Message**

```
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall discarded the Transmission Control Protocol (TCP) packet with the indicated characteristics, because the session to which the packet belongs violated TCP standards. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type** Event: This message reports an event, not an error

**Severity** notice

**Facility** LOG_PFE

**Cause** Possible causes include the following: (1) the amount of previously received but unacknowledged data exceeded the TCP window (2) there were sequence number errors (gaps in the sequence or packets with overlapping numbers).

**ASP_SFW_TCP_SCAN**

**System Log Message**

```
syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type
```

**Description**
The stateful firewall received a Transmission Control Protocol (TCP) RST packet from a server, indicating that the server rejected a connection attempt directed to the indicated destination address and port. The event was reported to intrusion detection services (IDS) and can cause IDS to activate SYN cookie protection. The RST packet contained the indicated information about its protocol (numerical identifier and name), source
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_PFE

ASP_SFW_TCP_SEQNO_AND_FLAGS_ZERO

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description: The stateful firewall discarded the Transmission Control Protocol (TCP) packet with the indicated characteristics, because the packet's sequence number was 0 (zero) and no flags were set. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_PFE

ASP_SFW_TCP_SEQNO_ZERO_FLAGS_SET

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description: The stateful firewall discarded the Transmission Control Protocol (TCP) packet with the indicated characteristics, because the packet's sequence number was 0 (zero) and one or more of the FIN, PSH, and RST flags were set. The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_PFE

ASP_SFW_UDP_HEADER_LEN_ERROR

System Log Message: syslog-prefix error-code: proto protocol-id (protocol-name),
source-interface-nameseparatorsource-address:source-port ->
destination-addressdestination-port, event-type

Description: The stateful firewall discarded the User Datagram Protocol (UDP) packet with the indicated characteristics, because the length field in the packet header was shorter than the minimum 8 bytes required for an UDP packet. The discarded packet contained the
indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**  Event: This message reports an event, not an error  
**Severity**  notice  
**Facility**  LOG_PFE

### ASP_SFW_UDP_PORT_ZERO

**System Log Message**  
`syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-namerepertoire-source-address:source-port -> destination-addressdestination-port, event-type`

**Description**  The stateful firewall discarded the User Datagram Protocol (UDP) packet with the indicated characteristics, because the source or destination port specified in the packet was zero (0). The discarded packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**  Event: This message reports an event, not an error  
**Severity**  notice  
**Facility**  LOG_PFE

### ASP_SFW_UDP_SCAN

**System Log Message**  
`syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-namerepertoire-source-address:source-port -> destination-addressdestination-port, event-type`

**Description**  The stateful firewall received an Internet Control Message Protocol (ICMP) error message from a server running at the indicated destination address and User Datagram Protocol (UDP) port. The error packet contained the indicated information about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

**Type**  Event: This message reports an event, not an error  
**Severity**  notice  
**Facility**  LOG_PFE

### ASP_SFW_VERY_BAD_PACKET

**System Log Message**  
`syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-namerepertoire-source-address:source-port -> destination-addressdestination-port, event-type`

**Description**  The stateful firewall discarded the packet with the indicated characteristics, because the packet was malformed. The discarded packet contained the indicated information
about its protocol (numerical identifier and name), source (logical interface name, IP address, and port number), and destination (IP address and port number).

Type Event: This message reports an event, not an error
Severity critical
Facility LOG_PFE

ASP_SVC_SET_MAX_FLOWS_EXCEEDED

System Log Message Number of flows (currently current-flows) exceeded configured limit (maximum-value) count times in previous 60 seconds

Description A flow was not created for a service and service set, because the current number of flows for all supported services exceeded the limit configured with the 'max-flows' statement at the [edit services service-set <service-set-name>] hierarchy level. The message appears once per minute and reports the number of times in the previous 60 seconds that the system noted the excessive number of flows.

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_PFE
This chapter describes messages with the **AUDITD** prefix. They are generated by the audit process (auditd), which notifies the RADIUS accounting server of user activity on the routing platform, such as login, logout, and execution of command-line interface (CLI) commands.

### AUDITD_RADIUS_AV_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to create type record: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The audit process (auditd) experienced the indicated error when building RADIUS attribute-value (AV) pairs for the indicated type of accounting request, which can be a login or logout event, or a command issued in the CLI.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### AUDITD_RADIUS_OPEN_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: unable to create RADIUS object handle (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The audit process (auditd) could not create a RADIUS object handle, which it uses for various RADIUS operations.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>emergency</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>For more information, see <a href="#">KB18757</a></td>
</tr>
</tbody>
</table>

### AUDITD_RADIUS_REQ_CREATE_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to create RADIUS request: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The audit process (auditd) could not create a RADIUS accounting request for the indicated reason.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
AUDITD_RADIUS_REQ_DROPPED

Discarded Accounting-Request message; no RADIUS server responded

The audit process (auditd) gathers information about system accounting events from other system processes and sends the information to RADIUS servers in an Accounting-Request message. The process repeatedly sent a message to all configured RADIUS servers without receiving a response, so it discarded the message.

AUDITD_RADIUS_REQ_SEND_ERROR

The audit process (auditd) experienced the indicated error when it requested accounting information from a RADIUS server.

AUDITD_RADIUS_REQ_TIMED_OUT

Retransmitted request to RADIUS server radius-server

The audit process (auditd) gathers information about system accounting events from other system processes and sends the information to RADIUS servers in an Accounting-Request message. After failing to receive a response from the indicated server, auditd waited for a timeout period and resent the message.
The RADIUS server is not responding. Possible reasons include (a) the server machine is down, too busy, or unreachable (b) the server application is down or too busy (c) the shared RADIUS secret sent by auditd does not match the secret on the server.

**AUDITD_RADIUS_SERVER_ADD_ERROR**

**System Log Message**
Unable to add RADIUS server radius-server: error-message

**Description**
The audit process (auditd) read the RADIUS accounting server configuration, but could not add the indicated server to the internal structure used to track servers.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_DAEMON

**Action** For more information, see KB18757.

**AUDITD_SOCKET_FAILURE**

**System Log Message** function-name: unable to operation socket (error-message)

**Description**
The audit process (auditd) listens on a Transmission Control Protocol (TCP) socket for system accounting events reported by other processes on the routing platform. The indicated socket operation failed with the indicated error.

**Type** Error: An error occurred

**Severity** emergency

**Facility** LOG_DAEMON

**Cause** An internal software failure occurred.

**Action** Contact your technical support representative. For more information, see KB18759.
CHAPTER 13

AUTHD System Log Messages

This chapter describes messages with the AUTHD prefix. They are generated by the generic authentication service process (authd) which is a security service that verifies an identity that is claimed by or for a system entity.

AUTHD_AUTH_CREATE_FAILED

System Log Message: Unable to allocate authentication handle: error-message

Description: The generic authentication service process (authd) could not allocate an authentication object for the indicated reason.

Type: Error: An error occurred

Severity: error

Facility: LOG_AUTH

Action: For more information see, KB18760.

AUTHD_RADIUS_GETHOSTNAME_FAILED

System Log Message: Unable to obtain hostname for outgoing RADIUS message: error-message

Description: The generic authentication service process (authd) could not obtain a hostname for an outgoing RADIUS message.

Type: Error: An error occurred

Severity: error

Facility: LOG_AUTH

Action: For more information see, KB18760.

AUTHD_SERVER_INIT_BIND_FAIL

System Log Message: Unable to bind to socket file-descriptor: error-message (errno error-code)

Description: The generic authentication service process (authd) could not bind the server to the address specified.

Type: Error: An error occurred
**Severity**  error

**Facility**  LOG_AUTH

**Action**  For more information, see KB18761.

**AUTHD_SERVER_INIT_LISTEN_FAIL**

**System Log Message**  Unable to listen on socket *file-descriptor: error-message* (errno *error-code*).

**Description**  The generic authentication service process (authd) could not initialize listening on the server for the indicated socket.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_AUTH

**Action**  For more information, see KB18762.
This chapter describes messages with the AUTOCONFD prefix. They are generated by the auto-configuration process (autoconfd).

**AUTOCONFD_AUTHENTICATE_LICENSE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Authentication failed due to license error. Total license failures count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The auto-configuration process (autoconfd) failed to authenticate the clients because there were no licenses or an insufficient number of licenses. The indicated number of license failures occurred and the clients were denied access and configuration.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Add or update the license for authentication</td>
</tr>
</tbody>
</table>
CHAPTER 15

AUTOD System Log Messages

This chapter describes messages with the AUTOD prefix. They are generated by the autoinstallation process (autod), which controls the initialization of J Series Services Routers.

### AUTOD_BIND_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to bind address to socket: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The autoinstallation process (autod) received the indicated error when it tried to bind a socket to an address.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### AUTOD_HOSTNAME_EXPANSION_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to expand compressed DNS domain name: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The autoinstallation process (autod) received the indicated error when it tried to expand a compressed Domain Name System (DNS) domain name.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### AUTOD_RECV_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to receive on socket: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The autoinstallation process (autod) received the indicated error when it tried to receive data on a socket.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative. For more information, see KB18766.

**AUTOD_RES_MKQUERY_FAILURE**

**System Log Message**: DNS query failed: *error-message*
**Description**: The autoinstallation process (autod) received the indicated error when it made a Domain Name System (DNS) query.
**Type**: Error: An error occurred
**Severity**: error
**Facility**: LOG_DAEMON
**Action**: Contact your technical support representative. For more information, see KB18766.

**AUTOD_SEND_FAILURE**

**System Log Message**: Unable to send on socket: *error-message*
**Description**: The autoinstallation process (autod) received the indicated error when it tried to send data on a socket.
**Type**: Error: An error occurred
**Severity**: error
**Facility**: LOG_DAEMON
**Action**: Contact your technical support representative. For more information, see KB18767.

**AUTOD_SOCKET_CREATE_FAILURE**

**System Log Message**: Unable to create socket: *error-message*
**Description**: The autoinstallation process (autod) received the indicated error when it tried to create a socket.
**Type**: Error: An error occurred
**Severity**: error
**Facility**: LOG_DAEMON
**Action**: Contact your technical support representative. For more information, see KB18768.
This chapter describes messages with the AV prefix. They are generated by the antivirus scanning process (avd).

**AV_PATTERN_GET_FAILED**

**System Log Message**
AntiVirus: cannot retrieve pattern error-message file due to error-code (status-code).

**Description**
The device was unable to access or retrieve an antivirus pattern file from a server, identified by IP address and port number, through HTTP. The error code provides information you need to get help from Juniper Networks technical support.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_FIREWALL

**Cause**
Unable to retrieve an antivirus pattern file from the server

**Action**
Contact Juniper Networks technical support

**AV_PATTERN_KEY_EXPIRED**

**System Log Message**
AntiVirus: Attempt to time failed due to date, please renew to receive updates.

**Description**
The internal antivirus scanner was unsuccessful in downloading the antivirus pattern file, because the AV license key has been expired.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_FIREWALL

**Cause**
Download the antivirus pattern file while antivirus license key has been expired

**Action**
Renew the antivirus license key

**AV_PATTERN_KL_CHECK_FAILED**

**System Log Message**
AntiVirus: db file signature mismatch: error-message.
Description: The device is unable to use Kaspersky's pattern file. The error message provides information you need to give Juniper Networks technical support.

Type: Event: This message reports an event, not an error
Severity: critical
Facility: LOG_FIREWALL
Cause: The device is unable to use Kaspersky's pattern file

Action: Contact Juniper Networks technical support. For more information, see KB18769.

**AV_PATTERN_TOO_BIG**

System Log Message: AntiVirus: The pattern file specified in server is too large(file-size bytes)

Description: The pattern file size specified in the server initialization file (server.ini) exceeds the maximum prescribed limit

Type: Event: This message reports an event, not an error
Severity: alert
Facility: LOG_FIREWALL
Cause: The pattern file size specified in the server initialization file exceeds the limit

Action: Contact Juniper Networks technical support. For more information, see KB18770.

**AV_PATTERN_UPDATED**


Description: The internal antivirus scanner successfully updated the pattern file and may have changed the size of the file in the process

Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_FIREWALL
Cause: The internal antivirus scanner successfully updated the antivirus pattern file

Action: No recommended action

**AV_PATTERN_WRITE_FS_FAILED**

System Log Message: AntiVirus: db file save failed: error-code

Description: The device is unable to save contents of an antivirus pattern file to the file system

Type: Event: This message reports an event, not an error
Severity  critical
Facility  LOG_FIREWALL
Cause    The device is unable to save contents of an antivirus pattern file to the file syste
Action   Contact Juniper Networks technical support

AV_SCANNER_READY

System Log Message  AntiVirus:The scan engine is ready.
Description         The antivirus scan engine is ready to scan the traffic
Type                Event: This message reports an event, not an error
Severity            notice
Facility            LOG_FIREWALL
Cause               The antivirus scan engine is ready
Action              No recommended action
This chapter describes messages with the **BFDD** prefix. They are generated by the Bidirectional Forwarding Detection protocol process (bfdd), which detects failures in the bidirectional path between two routing platforms.

### BFDD_MIRROR_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to establish BFD mirror connection between Routing Engines: <strong>error-message</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Bidirectional Forwarding Detection process (bfdd) could not establish the mirror connection (which supports nonstop routing) between the master and backup Routing Engines.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The master and backup Routing Engines are running incompatible versions of the Junos OS.</td>
</tr>
<tr>
<td>Action</td>
<td>Update the Junos OS to compatible versions on the master and backup Routing Engines.</td>
</tr>
</tbody>
</table>

### BFDD_MIRROR_VERSION_MISMATCH

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Versions of BFD mirror software on Routing Engines are incompatible: <strong>error-message</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>While trying to establish the mirror connection (which supports nonstop routing) between the master and backup Routing Engines, the Bidirectional Forwarding Detection process (bfdd) determined that the versions of Junos OS on the Routing Engines were incompatible.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Update the Junos OS to compatible versions on the master and backup Routing Engines.</td>
</tr>
</tbody>
</table>
**BFDD_READ_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Read error on pipe-type pipe: reason (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Bidirectional Forwarding Detection process (bfdd) could not read the message available on the indicated type of pipe.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18772.</td>
</tr>
</tbody>
</table>

**BFDD_TRAP_MHOP_STATE_DOWN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>local discriminator: session-id, new state: state, peer addr: pip-interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The state changed to 'down' or 'admin down' for the indicated Bidirectional Forwarding Detection process (bfdd) session.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**BFDD_TRAP_MHOP_STATE_UP**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>local discriminator: session-id, new state: state, peer addr: pip-interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The state changed to 'up' for the indicated Bidirectional Forwarding Detection process (bfdd) session.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**BFDD_TRAP_SHOP_STATE_DOWN**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The state changed to 'down' or 'admin down' for the indicated Bidirectional Forwarding Detection process (bfdd) session.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
### BFDD_TRAP_SHOP_STATE_UP

**System Log Message**  
local discriminator: `session-id`, new state: `state`, interface: `pip-interface`, peer addr: `remote-peer`

**Description**  
The state changed to 'up' for the indicated Bidirectional Forwarding Detection process (bfdd) session.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
LOG_DAEMON

### BFDD_TRAP_STATE_DOWN

**System Log Message**  
local discriminator: `session-id`, new state: `state`

**Description**  
The state changed to 'down' or 'admin down' for the indicated Bidirectional Forwarding Detection process (bfdd) session.

**Type**  
Event: This message reports an event, not an error

**Severity**  
warning

**Facility**  
LOG_DAEMON

### BFDD_TRAP_STATE_UP

**System Log Message**  
local discriminator: `session-id`, new state: `state`

**Description**  
The state changed to 'up' for the indicated Bidirectional Forwarding Detection process (bfdd) session.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
LOG_DAEMON

### BFDD_WRITE_ERROR

**System Log Message**  
`function-name`: write error on `pipe-type` pipe (`error-message`)

**Description**  
The Bidirectional Forwarding Detection process (bfdd) could not write a message to the indicated type of pipe.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative. For more information, see [KB18773](#).
This chapter describes messages with the `BOOTPD` prefix. They are generated by the boot parameter process (tnp.bootpd), which provides the appropriate boot string to hardware components as they initialize.

### BOOTPD_ARG_ERR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Ignoring unknown option <code>-option</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated option was provided on the 'tnp.bootpd' command line and is invalid. The boot parameter process (tnp.bootpd) initialized but ignored the invalid option.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Action</td>
<td>Remove the invalid option from the 'tnp.bootpd' command line.</td>
</tr>
</tbody>
</table>

### BOOTPD_BAD_ID

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unexpected ID 0xassembly-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>As each hardware component on the routing platform initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file tnp.bootpd. A request failed because it included the indicated assembly ID, for which there is no definition in the file.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

### BOOTPD_BOOTSTRING

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Boot string: <code>boot-string</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>As each hardware component on the routing platform initializes, it requests a boot string from the boot parameter process (tnp.bootpd). tnp.bootpd responded with the indicated boot string.</td>
</tr>
</tbody>
</table>
**Type**  Event: This message reports an event, not an error

**Severity**  info

**Facility**  ANY

**BOOTPD_CONFIG_ERR**

**System Log Message**  Problems with configuration file ‘filename’, using defaults

**Description**  The boot parameter process (tnp.bootpd) could not read the indicated configuration file, so it initialized using default settings defined at compile time.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  ANY

**Action**  Correct the configuration file.

**BOOTPD_CONF_OPEN**

**System Log Message**  Unable to open configuration file ‘filename’

**Description**  The boot parameter process (tnp.bootpd) could not open the indicated configuration file, so it initialized using default settings defined at compile time.

**Type**  Event: This message reports an event, not an error

**Severity**  notice

**Facility**  ANY

**Action**  Contact your technical support representative.

**BOOTPD_DUP_PIC_SLOT**

**System Log Message**  Duplicate default value defined for PIC pic-slot in FPC fpc-slot

**Description**  As each hardware component on the routing platform initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. There was more than one definition in the file for the indicated PIC slot in the indicated Flexible PIC Concentrator (FPC), so tnp.bootpd used the first definition it found.

**Type**  Event: This message reports an event, not an error

**Severity**  notice

**Facility**  ANY

**Action**  Remove the extra definitions from the configuration file.
### BOOTPD_DUP_REV

**System Log Message**
Duplicate revision: `major-version.minor-version`

**Description**
As each hardware component on the routing platform initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. There was more than one definition in the file for the indicated revision of a component, so tnp.bootpd used the first definition it found.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
ANY

**Action**
Remove the extra definitions from the configuration file.

### BOOTPD_DUP_SLOT

**System Log Message**
Duplicate slot default: `slot`

**Description**
As each hardware component on the routing platform initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. There was more than one definition in the file for the indicated slot (combination of component assembly ID and revision), so tnp.bootpd used the first definition it found.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
ANY

**Action**
Remove the extra definitions from the configuration file.

### BOOTPD_HWDB_ERROR

**System Log Message**
Operation in chassis hardware database failed: `error-message`

**Description**
The boot parameter process (tnp.bootpd) could not complete an operation in the hardware database maintained by the chassis process (chassisd), for the indicated reason.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
ANY

**Action**
Contact your technical support representative. For more information, see [KB18774](#).

### BOOTPD_MODEL_CHK

**System Log Message**
Unexpected ID `0xidentifier` for model `model`
Description: As each hardware component on the routing platform initializes, it requests a boot string from the boot parameter process (tnp.bootpd). A request failed because it included the indicated assembly ID, which is inconsistent with the routing platform's model number.

Type: Error: An error occurred
Severity: warning
Facility: ANY
Action: Contact your technical support representative.

**BOOTPD_NEW_CONF**

System Log Message: New configuration installed
Description: The boot parameter process (tnp.bootpd) loaded a new configuration file.

Type: Event: This message reports an event, not an error
Severity: info
Facility: ANY

**BOOTPD_NO_BOOTSTRING**

System Log Message: No boot string found for type board-type major-version.minor-version command-type
Description: As each hardware component on the routing platform initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. The file did not include a boot string for the hardware component with the indicated characteristics.

Type: Error: An error occurred
Severity: warning
Facility: ANY
Action: Contact your technical support representative.

**BOOTPD_NO_CONFIG**

System Log Message: No configuration file 'filename', using defaults
Description: The boot parameter process (tnp.bootpd) could not open the indicated configuration file, so it initialized using default settings defined at compile time.

Type: Event: This message reports an event, not an error
Severity: notice
Facility: ANY
BOOPTPD_PARSE_ERR

System Log Message  filename: return-value parse errors on SIGHUP

Description  There was an error in the configuration file for the boot parameter process (tnp.bootpd), so it initialized using default settings defined at compile time.

Type  Error: An error occurred
Severity  error
Facility  ANY
Action  Correct the configuration file.

BOOPTPD_REPARSE

System Log Message  Reparsing configuration file 'filename'

Description  The boot parameter process (tnp.bootpd) reparsed the indicated configuration file.

Type  Event: This message reports an event, not an error
Severity  info
Facility  ANY

BOOPTPD_SELECT_ERR

System Log Message  select: error-message

Description  The boot parameter process (tnp.bootpd) issued the select() system call, which returned the indicated error message.

Type  Error: An error occurred
Severity  warning
Facility  ANY
Action  Contact your technical support representative.

BOOPTPD_TIMEOUT

System Log Message  Timeout duration unreasonable

Description  The indicated timeout value was specified for the -t argument on the 'tnp.bootpd' command line, or no value was provided. The value was not acceptable, so the boot parameter process (tnp.bootpd) initialized using the default value of 30 seconds.

Type  Error: An error occurred
Severity  warning
Facility  ANY
**Action**  Provide an acceptable value for the -t argument; acceptable values are '1' (second) and larger.
This chapter describes messages with the CFMD prefix. They are generated by the connectivity-fault management (CFM) process (cfmd), which supports Operation, Administration, and Maintenance (OAM) functions that are defined in the Institute of Electrical and Electronics Engineers (IEEE) 802.1ag standard for Ethernet interfaces.

### CFMD_CCM_DEFECT_CROSS_CONNECT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>CFM defect: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A connectivity-fault management (CFM) maintenance endpoint (MEP) received a continuity check message (CCM) that had an incorrect maintenance association (MA) ID or a maintenance domain (MD) level lower than that of the MEP, each of which indicates a cross-connect error.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The configuration is invalid.</td>
</tr>
<tr>
<td>Action</td>
<td>Check whether the configured MD name, format, and level, or the MA name or format, is different from the remote endpoint.</td>
</tr>
</tbody>
</table>

### CFMD_CCM_DEFECT_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>CFM defect: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A connectivity-fault management (CFM) maintenance endpoint (MEP) received a continuity check message (CCM) with an incorrect transmission interval or MEP ID, which indicates a configuration error.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The configuration is invalid.</td>
</tr>
</tbody>
</table>
### Action
Verify that the configured continuity-check transmission interval does not differ from the remote endpoint, and that the configured MEP ID is valid.

<table>
<thead>
<tr>
<th>CFMD_CCM_DEFECT_MAC_STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CFMD_CCM_DEFECT_NONE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CFMD_CCM_DEFECT_RDI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CFMD_CCM_DEFECT_RMEP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
</tbody>
</table>
### CFMD_CCM_DEFECT_UNKNOWN

**System Log Message**  CFM defect: *error-message*

**Description**  An unknown defect was detected.

**Type**  Event: This message reports an event, not an error

**Severity**  error

**Facility**  LOG_DAEMON

### CFMD_PARSE_BAD_SWITCH

**System Log Message**  executable-name: invalid switch: *option*

**Description**  The enterprise switching process (cfmd) terminated because of an invalid switch.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  ANY

**Action**  Examine the messages that immediately follow this message in the system log for information about possible causes.

**Cause**  An internal software failure occurred.

### CFMD_PARSE_CMD_ARG

**System Log Message**  executable-name: missing argument for switch: *option*

**Description**  The enterprise switching process (cfmd) terminated because of an internal error.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  ANY

**Action**  Examine the messages that immediately follow this message in the system log for information about possible causes.

**Cause**  An internal software failure occurred.

### CFMD_PARSE_CMD_EXTRA

**System Log Message**  executable-name: extraneous information on command line: *option*

**Description**  The enterprise switching process (cfmd) terminated because of an internal error.

**Type**  Error: An error occurred

**Severity**  error
Facility: ANY

Action: Examine the messages that immediately follow this message in the system log for information about possible causes.

Cause: An internal software failure occurred.

### CFMD_PARSE_USAGE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Usage: executable-name [-c] [-C] [-n] [-N] [-t[flags]] [-f config-file] [trace-file]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The enterprise switching process (cfmd) terminated because of an internal error.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

Action: Examine the messages that immediately follow this message in the system log for information about possible causes.

Cause: An internal software failure occurred.

### CFMD_PPM_READ_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Read error on pipe from ppmd: reason (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The connectivity fault management process (cfmd) could not read a message available on the read pipe from the periodic packet management process (ppmd).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

Action: Contact your technical support representative.

### CFMD_PPM_WRITE_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: write error on pipe to ppmd (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The connectivity fault management process (cfmd) could not write a message on the pipe to the periodic packet management process (ppmd).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

Action: Contact your technical support representative.
This chapter describes messages with the **CHASSISD** prefix. They are generated by the chassis process (**chassisd**), which controls hardware components on the routing platform.

### CHASSISD_ACQUIRE_MASTERSHIP

**System Log Message**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acquire mastership notification</td>
</tr>
</tbody>
</table>

**Type**

Event: This message reports an event, not an error

**Severity**

info

**Facility**

LOG_DAEMON

**Cause**

The Routing Engine was probably rebooting and graceful Routing Engine switchover is configured.

### CHASSISD_ANTICF_PIM_CHECK_FAILED

**System Log Message**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIM pim-slot failed anti-counterfeit check</td>
</tr>
</tbody>
</table>

**Type**

Error: An error occurred

**Severity**

error

**Facility**

LOG_DAEMON

### CHASSISD_ANTICF_RE_CHECK_FAILED

**System Log Message**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routing Engine failed anti-counterfeit check</td>
</tr>
</tbody>
</table>

**Type**

Error: An error occurred

**Severity**

error
<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_DAEMON</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHASSISD_ANTICF_RE_ROM_READ_FAIL</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to read serial number from anti-counterfeit device for Routing Engine</td>
</tr>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not read the serial number recorded in the ROM of the anti-counterfeit device for the Routing Engine.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
<tr>
<td><strong>CHASSISD_ANTICF_RE_SHA_READ_FAIL</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to read SHA output from anti-counterfeit device for Routing Engine</td>
</tr>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not read Secure Hash Algorithm (SHA) information from the anti-counterfeit device for the Routing Engine.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
<tr>
<td><strong>CHASSISD_ANTICF_ROM_READ_FAILED</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to read serial number from anti-counterfeit device for PIM pim-slot</td>
</tr>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not read the serial number recorded in the ROM of the anti-counterfeit device for the indicated Physical Interface Module.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
<tr>
<td><strong>CHASSISD_ANTICF_SHA_READ_FAILED</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to read SHA output from anti-counterfeit device for PIM pim-slot</td>
</tr>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not read Secure Hash Algorithm (SHA) information from the anti-counterfeit device for the indicated Physical Interface Module (PIM).</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

**CHASSISD_ARGUMENT_ERROR**

System Log Message: Unknown option option
Description: The indicated option, provided on the 'chassisd' command line, is invalid. The chassis process (chassisd) initialized but ignored the invalid option.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

**CHASSISD_BLOWERS_SPEED**

System Log Message: Fans and impellers are now running at normal speed
Description: The fans (and impellers, if applicable) were running at the normal speed.
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON

**CHASSISD_BLOWERS_SPEED_FULL**

System Log Message: Fans and impellers being set to full speed [reason]
Description: For the indicated reason, the chassis process (chassisd) increased the speed of fans (and impellers, if applicable) to the maximum.
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON

**CHASSISD_BLOWERS_SPEED_MEDIUM**

System Log Message: Fans and impellers being set to intermediate speed
Description: The chassis process (chassisd) increased the speed of fans (and impellers, if applicable) to the intermediate level because of a temperature increase in the chassis.
Type: Event: This message reports an event, not an error
Severity: notice
<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_DAEMON</th>
</tr>
</thead>
</table>

### CHASSISD_BUS_DEVICE_OPEN_FAILURE

**System Log Message**  
Unable to open 'bus-type' bus device, error `error-message` (error-code)

**Description**  
The chassis process (chassisd) could not open the indicated bus device for the indicated reason.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative. For more information, see KB18776.

### CHASSISD_CB_CLOCK_CHECKSUM

**System Log Message**  
Clock module on M120 CB had configuration data checksum error

**Description**  
The chassis process (chassisd) detected a checksum error for the clock module on an M120 Control Board (CB).

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### CHASSISD_CB_MASTER_BP_IGNORED

**System Log Message**  
Press of online/offline button ignored for master fru-name fru-slot

**Description**  
The online/offline button for the indicated control board was pressed, but the chassis process (chassisd) ignored the request. The control board for M40e and M160 routers is the Miscellaneous Control Subsystem (MCS). The control board for M320, T320, T640, MX240, MX480 and MX960 routers is the Control Board (CB).

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
The control board was acting as master.

**Action**  
Switch mastership to the other control board before taking the control board offline.

### CHASSISD_CB_READ

**System Log Message**  
Error reading midplane ID EEPROM, errno `error-code`

**Description**  
The chassis process (chassisd) could not read the EEPROM on the midplane.

**Type**  
Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative.

CHASSISD_CB_RE_ONLINE_BP_IGNORED

System Log Message  Unable to take fru-name fru-slot offline because paired Routing Engine is online
Description  The online/offline button for the indicated control board was pressed, but the chassis process (chassisd) ignored the request. The control board for M40e and M160 routers is the Miscellaneous Control Subsystem (MCS). The control board for M320, T320, T640, MX240, MX-480 and MX960 routers is the Control Board (CB).
Type  Event: This message reports an event, not an error
Severity  error
Facility  LOG_DAEMON
Cause  The Routing Engine paired with the indicated control board is still online.
Action  Take the Routing Engine offline before taking the control board offline.

CHASSISD_CFEB_POWER_FAILURE

System Log Message  function-name: unable to turn state power for CFEB cfeb-slot
Description  The chassis process (chassisd) could not turn on or turn off the power to the indicated Compact Forwarding Engine Board (CFEB).
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative. For more information, see KB18777.

CHASSISD_CLEAR_CONFIG_ERROR

System Log Message  function-name: status
Description  The chassis process (chassisd) encountered an error while trying to clear the state information associated with a copy of the management process (mgd) that it spawned to commit the rescue configuration. The commit operation succeeded or failed as indicated.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Cause  An internal software failure occurred.

Action  Contact your technical support representative.

**CHASSISD_CLOCK_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Function-name: fru-name error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) determined that the indicated clock source failed in the indicated way.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18778.</td>
</tr>
</tbody>
</table>

**CHASSISD_CLOCK_NOTICE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>fru-name: message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The clock-synchronization status of the indicated component (field-replaceable unit, or FRU) changed as indicated.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**CHASSISD_CLOCK_RESET_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Zarlink module on Taz Base Board is not coming up after reset</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) detected an error in the state of clock module.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**CHASSISD_CMB_READBACK_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Readback error from chassis management bus for fru-name fru-slot ([0xaddress, 0xoffset] -&gt; 0xerror-code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not read back information from the Chassis Management Bus (CMB) about the indicated component (field-replaceable unit, or FRU).</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Cause</td>
<td>The probable cause is hardware error.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18779.</td>
</tr>
</tbody>
</table>

**CHASSISD_COMMAND_ACK_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Error occurred when fru-name fru-slot reported its online status: error-message (error code error-code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process requested that the indicated component (field-replaceable unit, or FRU) confirm that it was online. The indicated error occurred when the FRU sent its response. In the normal case, the chassis process performed any additional action necessary to guarantee that the FRU came online.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18780.</td>
</tr>
</tbody>
</table>

**CHASSISD_COMMAND_ACK_SFM_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: SFM sfm-slot did not acknowledge FPC fpc-slot: error error-message (code error-code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) requires an acknowledgment from each Switching and Forwarding Module (SFM) before it registers a Flexible PIC Controller (FPC) as online. The acknowledgment message from the indicated SFM failed for the indicated FPC.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18781.</td>
</tr>
</tbody>
</table>

**CHASSISD CONCAT_MODE_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Cannot set no-concatenated mode for FPC fpc-slot PIC pic-slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not set channelized mode for the indicated SONET/SDH Physical Interface Card (PIC). Channelized mode is configured by including the no-concatenate statement at the [edit chassis fpc 'slot' pic 'slot'] hierarchy level.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
CHASSISD_CONFIG_ACCESS_ERROR

System Log Message  function-name: error-message

Description  The chassis process (chassisd) experienced the indicated problem while attempting to parse the configuration database.

Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Cause  An internal software failure occurred.
Action  Contact your technical support representative.

CHASSISD_CONFIG_CHANGE_IFDEV_DEL

System Log Message  Deleting argument1 interface-typesdev-numberargument2 due to configuration change

Description  The chassis process (chassisd) deleted the indicated interface devices due to a change in the configuration.

Type  Event: This message reports an event, not an error
Severity  warning
Facility  LOG_DAEMON

CHASSISD_CONFIG_INIT_ERROR

System Log Message  Unable to parse configuration; using defaults

Description  The chassis process (chassisd) could not parse the configuration and used default values while initializing.

Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative.

CHASSISD_CONFIG_WARNING

System Log Message  function-name: warning-message, FPC fpc-slot PIC pic-slot

Description  The configuration that was specified for the indicated Physical Interface Card (PIC) is invalid for that type of PIC.

Type  Event: This message reports an event, not an error
Severity  warning
Facility LOG_DAEMON

**CHASSISD DEVICE OPEN ERROR**

System Log Message Unable to open *device-name* device file (errno *error-code*)

Description The chassis process (chassisd) could not open the device file for the indicated device.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

**CHASSISD EXEC ERROR**

System Log Message *function-name: error-message*

Description While trying to commit the rescue configuration, the chassis process (chassisd) encountered an error.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause An internal software failure occurred.

Action Contact your technical support representative.

**CHASSISD EXISTS**

System Log Message chassisd already running; exiting

Description The chassis process (chassisd) exited because it discovered that another chassisd process is already running.

Type Event: This message reports an event, not an error

Severity warning

Facility LOG_DAEMON

**CHASSISD EXISTS TERM OTHER**

System Log Message Killing existing chassisd and exiting

Description The chassis process (chassisd) discovered that another chassisd process is already running. It terminated the other process and exited.

Type Event: This message reports an event, not an error

Severity warning
Facility: LOG_DAEMON

CHASSISD_FAN_FAILURE

System Log Message: fru-name in slot fru-slot failed

Description: The indicated fan or impeller failed. The chassis process (chassisd) raised an alarm and increased the speed of the remaining fans (and impellers, if applicable) to full speed.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative. For more information, see KB18782.

CHASSISD_FASIC_CONFIG_COMPLETE

System Log Message: Fchip: configuration already completed

Description: The chassis process (chassisd) detected an attempt to configure an F chip on a Control Board (CB) when configuration was already complete.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

CHASSISD_FASIC_FTOKEN_ERROR

System Log Message: Fchip (CB control-board-slot, ID fchip-id): ftoken overflow/underflow set (data) at address

Description: The chassis process (chassisd) detected an underflow or overflow error on the indicated F chip on the indicated Control Board (CB).

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative. For more information, see KB18783.

CHASSISD_FASIC_FTOKEN_INIT_ERROR

System Log Message: Fchip (CB control-board-slot, ID fchip-id): f8chip_ftoken_init() stuck in ftoken loop, addr=address, data=data

Description: The chassis process (chassisd) encountered an error while initializing memory at the indicated address for the indicated F chip on the indicated Control Board (CB).

Type: Error: An error occurred
Severity: error
### CHASSISD_FASIC_HSL_CONFIG_ERROR

**System Log Message**  
Fchip (CB control-board-slot, ID fchip-id): HSL configuration failed (error error-message)

**Description**  
The chassis process (chassisd) could not configure high speed links (HSL) for the indicated F chip on the indicated Control Board (CB).

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative. For more information, see KB18785.

### CHASSISD_FASIC_HSL_LINK_ERROR

**System Log Message**  
Fchip (CB control-board-slot, ID fchip-id): link link-id failed because of error-message

**Description**  
The chassis process (chassisd) detected an error for the indicated high speed link (HSL) for the indicated F chip on the indicated Control Board (CB).

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative. For more information, see KB18786.

### CHASSISD_FASIC_INIT_ERROR

**System Log Message**  
Fchips were not configured yet

**Description**  
The chassis process (chassisd) detected that F chips were not yet initialized on the Control Board (CB).

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative. For more information, see KB18787.

### CHASSISD_FASIC_INPUT_DROP

**System Log Message**  
Fchip (CB control-board-slot, ID fchip-id): dropped drop-rate cells per second coming from Packet Forwarding Engine pfe on FPC fpc-slot

**Description**  
The Packet Forwarding Engine divides packets into smaller units called cells for more efficient processing. As the indicated F chip on the indicated Control Board (CB) processed
data that was received from the indicated Packet Forwarding Engine on the indicated Flexible PIC Concentrator (FPC), it dropped the indicated number of cells per second.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_DAEMON

**Action** Contact your technical support representative. For more information, see KB18788.

### CHASSISD_FASIC_OUTPUT_DROP

**System Log Message** Fchip (CB control-board-slot, ID fchip-id): dropped drop-rate cells per second destined for Packet Forwarding Engine pfe on FPC fpc-slot

**Description** The Packet Forwarding Engine divides packets into smaller units called cells for more efficient processing. As the indicated F chip on the indicated Control Board (CB) processed data before sending it to the indicated Packet Forwarding Engine on the indicated Flexible Port Concentrator (FPC) for outgoing transmission, it dropped the indicated number of cells per second.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_DAEMON

**Action** Contact your technical support representative. For more information, see KB18789.

### CHASSISD_FASIC_PIO_READ_ERROR

**System Log Message** Fchip (CB control-board-slot, ID fchip-id): read error in function-name() for link#link-id at address address in register register

**Description** The indicated routine failed with a read error at the indicated address and register for the indicated F chip and link on the indicated Control Board (CB).

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_DAEMON

**Action** Contact your technical support representative. For more information, see KB18790.

### CHASSISD_FASIC_PIO_WRITE_ERROR

**System Log Message** Fchip (CB control-board-slot, ID fchip-id): write error in function-name() for link#link-id at address address in register register

**Description** The indicated routine failed with a write error at the indicated address and register for the indicated F chip and link on the indicated Control Board (CB).
### CHASSISD_FASIC_PLL_ERROR

**System Log Message**
Fchip (CB control-board-slot, ID fchip-id): unable to lock PLL

**Description**
The chassis process (chassisd) could not lock a phased-lock loop (PLL) for the indicated F chip on the indicated Control Board (CB).

---

### CHASSISD_FASIC_RESET_ERROR

**System Log Message**
Fchip (CB control-board-slot, ID fchip-id): reset failed

**Description**
The chassis process (chassisd) could not reset the indicated F chip on the indicated Control Board (CB).

---

### CHASSISD_FASIC_SRAM_ERROR

**System Log Message**
Fchip (CB control-board-slot, ID fchip-id): SRAM fuse did not initialize

**Description**
The chassis process (chassisd) detected that static RAM (SRAM) did not initialize properly for the indicated F chip on the indicated Control Board (CB).
### CHASSISD_FASIC_VERSION_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fchip (CB control-board-slot, ID fchip-id): part number part-number and version version were invalid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated part number and version detected for the indicated F chip on the indicated Control Board (CB) were not valid values.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_FCHIP_CONFIG_COMPLETE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fchip: configuration already completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) detected an attempt to configure an F chip when configuration was already complete.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_FCHIP_CONFIG_MD_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fchip fchip-id: invalid number of Md chips (count) for Packet Forwarding Engine pfe on FPC fpc-slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) detected an invalid number of Md chips for the indicated F chip, Packet Forwarding Engine and Flexible PIC Concentrator (FPC).</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB18795.</td>
</tr>
</tbody>
</table>

### CHASSISD_FCHIP_CONFIG_RATE_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fchip fchip-id: unable to set rate limit on port port</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not set the rate limit for the indicated F chip and port.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
### CHASSISD_FCHIP_CONFIG_READ_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fchip fchip-id: unable to read configuration register</td>
<td>The chassis process (chassisd) could not read a configuration register on the indicated F chip.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_FCHIP_FTOKEN_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fchip fchip-id: Ftoken overflow/underflow set (data) at address</td>
<td>The chassis process (chassisd) detected an underflow or overflow error on the indicated F chip.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_FCHIP_FTOKEN_INIT_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fchip fchip-id: fchip_ftoken_init() stuck in ftoken loop, addr=address, data=data</td>
<td>The chassis process (chassisd) encountered an error while initializing memory at the indicated address for the indicated F chip.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_FCHIP_HSR_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fchip high-speed receiver (HSR) error: error-message</td>
<td>The chassis process (chassisd) detected an error in the high-speed receiver (HSR) subsystem for the F chip with the indicated characteristics.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
**CHASSISD_FCHIP_HSR_INIT_ERROR**

*System Log Message:* HSR: No vectors supplied

*Description:* The chassis process (chassisd) could not initialize the high-speed receiver (HSR) subsystem for an F chip.

*Type:* Error: An error occurred

*Severity:* error

*Facility:* LOG_DAEMON

**CHASSISD_FCHIP_HSR_INIT_LINK_ERR**

*System Log Message:* Fchip fchip-id: unable to initialize HSR link link-id

*Description:* The chassis process (chassisd) could not initialize the indicated high-speed receiver (HSR) link for the indicated F chip.

*Type:* Error: An error occurred

*Severity:* error

*Facility:* LOG_DAEMON

**CHASSISD_FCHIP_HSR_RESET_ERROR**

*System Log Message:* Fchip fchip-id: hsr_reset error in fchip_init() on link link-id

*Description:* A high-speed receiver (HSR) reset error occurred during initialization of the indicated F chip and link.

*Type:* Error: An error occurred

*Severity:* error

*Facility:* LOG_DAEMON

**CHASSISD_FCHIP_HST_ERROR**

*System Log Message:* Fchip high-speed transmitter (HST) error: error-message

*Description:* The chassis process (chassisd) detected an error in the high-speed transmitter (HST) subsystem for the F chip with the indicated characteristics.

*Type:* Error: An error occurred

*Severity:* error

*Facility:* LOG_DAEMON

*Action:* For more information, see KB18797.
<table>
<thead>
<tr>
<th>Error Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHASSISD_FCHIP_HST_INIT_ERROR</td>
<td>The chassis process (chassisd) could not initialize the high-speed transmitter (HST) subsystem for an F chip.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>CHASSISD_FCHIP_HST_INIT_LINK_ERR</td>
<td>The chassis process (chassisd) could not initialize the indicated high-speed transmitter (HST) link for the indicated F chip.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>CHASSISD_FCHIP_HST_RESET_ERROR</td>
<td>A high-speed transmitter (HST) reset error occurred during initialization of the indicated F chip and link.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>CHASSISD_FCHIP_INIT_ERROR</td>
<td>The chassis process (chassisd) detected that F chips were not yet initialized.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>CHASSISD_FCHIP_LINK_ERROR</td>
<td>The chassis process (chassisd) detected an error for the indicated high-speed receiver (HSR) or high-speed transmitter (HST) link for an F chip on the indicated Switch Interface Board (SiB).</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>--------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18798.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CHASSISD_FCHIP_MONITOR_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>F chip module was invalid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) detected an invalid F-chip module while enabling or disabling the monitoring of F-chip functional blocks.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18799.</td>
</tr>
</tbody>
</table>

**CHASSISD_FCHIP_PIO_READ_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fchip fchip-id: read error in function-name() for link#link-id, at address address in register register</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated routine failed with a read error at the indicated address and register for the indicated F chip and link.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB18800.</td>
</tr>
</tbody>
</table>

**CHASSISD_FCHIP_PIO_WRITE_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fchip fchip-id: write error in function-name() for link#link-id, at address address in register register</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated routine failed with a write error at the indicated address and register for the indicated F chip and link.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB18801.</td>
</tr>
</tbody>
</table>
CHASSISD_FCHIP_POLL_ERROR
System Log Message: Fchip fchip-id: link-type link-id poll returned error error-code
Description: An error with the indicated error number occurred during polling of the indicated high-speed receiver (HSR) or high-speed transmitter (HST) link for the indicated F chip.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

CHASSISD_FCHIP_RATE_ERROR
System Log Message: Fchip fchip-id: per-port rate limit was not enabled
Description: The chassis process (chassisd) detected that per-port rate limiting was not enabled when it attempted to set the rate limit on an individual port for the indicated F chip.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

CHASSISD_FCHIP_SIB_NOT_STARTED
System Log Message: Unable to start fru-name fru-slot because F chips were not initialized
Description: The indicated Switch Interface Board (SIB) did not start because the F chips on it were not initialized.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

CHASSISD_FCHIP_VERSION_ERROR
System Log Message: F chip fchip-id: part number (part-number) and version (version) were invalid
Description: The indicated part number and version detected for the indicated F chip were not valid values.
Type: Error: An error occurred
Severity: error
Facility LOG_DAEMON

CHASSISD_FEB_REVERSION
System Log Message Reversion from FEB fru-slot to FEB slot
Description The chassis daemon (chassisd) reverted to the indicated FEB from the specified FEB.
Type Event: This message reports an event, not an error
Severity error
Facility LOG_DAEMON

CHASSISD_FEB_SWITCHOVER
System Log Message Switchover from FEB fru-slot to FEB slot
Description The chassis daemon (chassisd) switched to the indicated FEB from the specified FEB.
Type Event: This message reports an event, not an error
Severity error
Facility LOG_DAEMON

CHASSISD_FHSR_READ_REG_ERROR
System Log Message Fchip: fhsr_read() failed at address address
Description The high-speed receiver (HSR) read routine failed at the indicated address on an F-chip register.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Contact your technical support representative. For more information, see KB18802.

CHASSISD_FHSR_WRITE_REG_ERROR
System Log Message Fchip: fhsr_write() of value value failed at address address
Description The high-speed receiver (HSR) write routine could not record the indicated value at the indicated address on an F-chip register.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action For more information, see KB18803.
CHASSISD_FHST_READ_REG_ERROR

System Log Message  Fchip: fhst_read() failed at address address
Description  The high-speed transmitter (HST) read routine failed at the indicated address on an F-chip register.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative. For more information, see KB18804.

CHASSISD_FHST_WRITE_REG_ERROR

System Log Message  Fchip: fhst_write() of value value failed at address address
Description  The high-speed transmitter (HST) write routine could not record the indicated value at the indicated address on an F-chip register.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  For more information, see KB18805.

CHASSISD_FILE_OPEN

System Log Message  File open: filename, error: error-code -- error-message
Description  The chassis process (chassisd) could not open the indicated file for the indicated reason.
Type  Error: An error occurred
Severity  critical
Facility  LOG_DAEMON
Action  For more information, see KB18806.

CHASSISD_FILE_STAT

System Log Message  File stat: filename, error: error-code -- error-message
Description  The chassis process (chassisd) could not open the indicated file because it could not obtain its status.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
CHASSISD_FM_ACTION_FPC_OFFLINE
System Log Message  FPC fpc-slot offline initiated to attempt healing of the fabric down condition.
Description  The chassis process took the indicated FPC offline in an attempt to heal a fabric down condition, which caused the router to be incapable of carrying traffic.
Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_DAEMON
Action  Contact your technical support representative.

CHASSISD_FM_ACTION_FPC_ONLINE
System Log Message  FPC fpc-slot online initiated to attempt healing of the fabric down condition.
Description  The chassis process put the indicated FPC online in an attempt to heal a fabric down condition, which caused the router to be incapable of carrying traffic.
Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_DAEMON
Action  Contact your technical support representative.

CHASSISD_FM_ACTION_FPC_POWER_OFF
System Log Message  FPC fpc-slot power off initiated to take down interfaces since the FPC is incapable of forwarding traffic due to the fabric down condition.
Description  The chassis process powered off the indicated FPC to take down the FPC's interfaces and signal neighboring routers that the router is incapable of carrying traffic on the indicated FPC.
Type  Event: This message reports an event, not an error
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative.

CHASSISD_FM_ACTION_FPC_RESTART
System Log Message  FPC fpc-slot restart initiated to attempt healing of the fabric down condition.
Description  The chassis process restarted the indicated FPC in an attempt to heal a fabric down condition, which caused the router to be incapable of carrying traffic.
Type  Event: This message reports an event, not an error
Severity    notice
Facility    LOG_DAEMON
Action      Contact your technical support representative.

CHASSISD_FM_ACTION_PLANE_OFFLINE

System Log Message   Fabric plane sib-plane offline initiated to attempt healing of the fabric down condition.
Description          The chassis process took the indicated fabric plane offline in an attempt to heal a fabric down condition, which caused the router to be incapable of carrying traffic.
Type                  Event: This message reports an event, not an error
Severity              notice
Facility              LOG_DAEMON
Action                Contact your technical support representative.

CHASSISD_FM_ACTION_PLANE_ONLINE

System Log Message   Fabric plane sib-plane online initiated to attempt healing of the fabric down condition.
Description          The chassis process put the indicated fabric plane online in an attempt to heal a fabric down condition, which caused the router to be incapable of carrying traffic.
Type                  Event: This message reports an event, not an error
Severity              notice
Facility              LOG_DAEMON
Action                Contact your technical support representative.

CHASSISD_FM_BAD_STATE

System Log Message   function-name: unexpected state statetype for SIB#sib-slot
Description          The indicated function failed because it encountered the indicated type of unexpected internal state with respect to the indicated Switch Interface Board (SIB).
Type                  Error: An error occurred
Severity              error
Facility              LOG_DAEMON
Action                Contact your technical support representative.

CHASSISD_FM_DETECT_PLANES_DOWN

System Log Message   All fabric planes in the system have gone down after interfaces have been created. If no fabric planes come online in elapsed-time seconds, actions will be taken to address the fabric down condition.
### CHASSISD_FM_DETECT_UNREACHABLE

**System Log Message**
Some fabric destinations PFEs in the system have become unreachable after interfaces have been created. If the unreachable PFE destinations are not fixed in elapsed-time seconds, actions will be taken to address the fabric down condition.

**Description**
The chassis process detected that some Packet Forwarding Engine (PFE) destinations had become unreachable after interfaces were created, and the router is not capable of carrying traffic to the unreachable PFE destinations on the interfaces.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### CHASSISD_FM_ERROR

**System Log Message**
function-name: error-message (SIB#sib-slot, Packet Forwarding Engine pfe on FPC fpc-slot)

**Description**
During execution of the indicated fabric management routine, the indicated error occurred between the indicated Switch Interface Board (SIB) and the indicated Packet Forwarding Engine on the indicated Flexible PIC Concentrator (FPC).

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18807.</td>
</tr>
</tbody>
</table>

### CHASSISD_FM_ERROR_CLOS_F13_HSR

**System Log Message**
FM: error-message errors occurred on link from F2-f2-sib_SF from-fchip_s-port to F13SIBto-sfc-sib_SF3_to-fchip_d-port on plane sib-plane

**Description**
In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the Ti600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the SFC routing node detected an error in the electrical
path between the indicated port on the indicated F2SIB and F13SIB on the indicated plane.

**Type**  Error: An error occurred
**Severity**  error
**Facility**  LOG_DAEMON
**Action**  Contact your technical support representative.

**CHASSISD_FM_ERROR_CLOS_F13_HST**

**System Log Message**  FM: error-message errors occurred on link from F13SIB from-sfc-sib SF1 from-fchip s-port to F2-f2-sib SfTo-fchip d-port on plane sib-plane

**Description**  In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the SFC routing node detected an error in the transmit electrical path between the indicated port on the indicated F13SIB and F2SIB on the indicated plane.

**Type**  Error: An error occurred
**Severity**  error
**Facility**  LOG_DAEMON
**Action**  Contact your technical support representative.

**CHASSISD_FM_ERROR_CLOS_F2_HSR**

**System Log Message**  FM: error-message errors occurred on link from F13SIB from-sfc-sib SF1 from-fchip s-port to f2-sib SfTo-fchip d-port on plane sib-plane

**Description**  In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the SFC routing node detected an error in the electrical path between the indicated port on the indicated F2SIB and F13SIB on the indicated plane.

**Type**  Error: An error occurred
**Severity**  error
**Facility**  LOG_DAEMON
**Action**  Contact your technical support representative.
CHASSISD_FM_ERROR_CLOS_F2_HST

System Log Message  FM: error-message errors occurred on link from f2-sib_SF from-fchip_s-port to F13SIBto-sfc-sib_SF1 to-fchip_d-port on plane sib-plane

Description  In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the SFC routing node detected an error in the transmit electrical path between the indicated port on the indicated F2SIB and F13SIB on the indicated plane.

Type  Error: An error occurred

Severity  error

Facility  LOG_DAEMON

Action  Contact your technical support representative.

CHASSISD_FM_ERROR_F13_FB_HSR_TXP

System Log Message  error-message errors on LCC_FPCfpc-slot_pfe link via ST_SIB_Lfrom-lcc-sib_FB_fiber-bundle to F13SIBto-sfc-sib

Description  In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated F13SIB detected an error in the electrical path between the indicated ports on the F13SIB and the indicated ST-SIB-L on the indicated LCC.

Type  Error: An error occurred

Severity  error

Facility  LOG_DAEMON

Action  Contact your technical support representative.

CHASSISD_FM_ERROR_F13_FB_RX_VC

System Log Message  error-message on F13SIBfrom-sfc-sib_FB_fiber-bundle VCSEL vcsel Channel vcsel-channel connected from LCC lcc SIB_L to-lcc-sib

Description  In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated F13SIB detected the indicated error as packets that were traveling in the in the optical media from the indicated ST-SIB-L on the indicated LCC.

Type  Error: An error occurred
### Severity error
### Facility LOG_DAEMON
### Action Contact your technical support representative.

#### CHASSISD_FM_ERROR_F13_FB_TXP

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>F13SIBsib-slot_FB_fiber-bundle LCC lcc ST_SIB_Lto-lcc-sib is error-message</td>
</tr>
<tr>
<td>Description</td>
<td>In a Tx-Plus routing matrix, the fiber-optic cable between each Switch Interface Board in a T1600 routing node (called a ST-SIB-L) must connect to a specific SIB port on the TX-Plus Matrix platform (called a F13SIB). The cable connected at the indicated F13SIB had the indicated error.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

#### CHASSISD_FM_ERROR_F13_FB_TX_VC

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>error-message on F13SIBfrom-sfc-sib_FB/fiber-bundle VCSEL vcsel Channel vcsel-channel connected to LCC lcc SIB_L to-lcc-sib</td>
</tr>
<tr>
<td>Description</td>
<td>In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated F13SIB detected the indicated error as packets that were traveling in the indicated direction were translated between electrical and optical media.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

#### CHASSISD_FM_ERROR_F13_VC_PWR

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>FM: High power difference at F13SIBfrom-sfc-sib_FBfiber-bundle VCSEL vcsel Channel vcsel-channel connected to LCC lcc SIB_Lsib-slot</td>
</tr>
<tr>
<td>Description</td>
<td>In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the SFC routing node that houses the indicated F13SIB detected higher than configured receive power difference levels on the indicated fiber-bundles connected to the indicated LCC ST-SIB-L.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**CHASSISD_FM_ERROR_SIB_L_FB_HSR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>FM: HSR error occurred on link from SIB-S port $F(s\text{-}row,s\text{-}port)$ to SIB-L#$sib\text{-}slot$ port $F(l\text{-}row,l\text{-}port)$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>In a routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T640 routing nodes (called SIB-Ls) and the SIBs in the TX Matrix platform (called SIB-Ss). The chassis process (chassisd) on the routing node that houses the indicated SIB-L detected an error in the electrical path between the indicated ports on the SIB-L and the corresponding SIB-S.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see <a href="#">KB18808</a>.</td>
</tr>
</tbody>
</table>

**CHASSISD_FM_ERROR_SIB_L_FB_RX_VC**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>error-message on LCC $lcc$ SIB_L$from-lcc-sib_FBfiber_bundle$ VCSEL $vcsel$ Channel $vcsel_channel$ connected to F13SIBto-sfc-sib</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated ST-SIB-L detected the indicated error as packets that were traveling in the optical media.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**CHASSISD_FM_ERROR_SIB_L_FB_SMF**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>FM: error-message error occurred on link to-from-sib SIB-L#$sib\text{-}slot$ to-from-scc SCC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>In a routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the TX Matrix platform (the switch-card chassis, or SCC) and the SIBs in the T640 routing nodes (called SIB-Ls). The chassis process (chassisd) on the routing node that houses the indicated SIB-L detected the</td>
</tr>
</tbody>
</table>
indicated error as packets that were traveling in the indicated direction were translated between electrical and optical media.

**CHASSISD_FM_ERROR_SIB_L_FB_TXP**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>In a Tx-Plus routing matrix, the fiber-optic cable between each Switch Interface Board in a T1600 routing node (called a ST-SIB-L) must connect to a specific SIB port on the TX-Plus Matrix platform (called a F13SIB). The cable connected at the indicated ST-SIB-L had the indicated error.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**CHASSISD_FM_ERROR_SIB_L_FB_TX_VC**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>error-message on LCC lcc SIB_L:from-lcc-sib_FBfiber-bundle VCSEL vcSEL vcsel Channel vcsel-channel connected to F13SIBto-sfc-sib</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated ST-SIB-L detected the indicated error as packets that were traveling in the indicated direction were translated between electrical and optical media.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**CHASSISD_FM_ERROR_SIB_L_HSR_PFE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>FM: error-message on LCC:lcc FPCfpc-slot_pfe link to ST-SIB-Lto-lcc-sib_fchip-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs).</td>
</tr>
</tbody>
</table>
The chassis process (chassisd) on the routing node that houses the indicated ST-SIB-L detected an error in the electrical path between the indicated ST-SIB-L and the indicated PFE on the FPC.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Action**  Contact your technical support representative.

**CHASSISD_FM_ERROR_SIB_L_HSR_TXP**

**Description**  In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated ST-SIB-L detected an error in the electrical path between the indicated ports on the SIB-L and the corresponding F13SIB.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Action**  Contact your technical support representative.

**CHASSISD_FM_ERROR_SIB_L_MISMATCH**

**System Log Message**  FM: fiber cable from SIB-L#sib-slot possibly connected to wrong SIB-S  
**Description**  In a routing matrix, the fiber-optic cable between each Switch Interface Board in a T640 routing node (called a SIB-L) must connect to a specific SIB port on the TX Matrix platform (called a SIB-S). The cable originating at the indicated SIB-L was possibly plugged into the wrong SIB-P or wrong SIB-S.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Action**  Contact your technical support representative.

**CHASSISD_FM_ERROR_SIB_L_VC_PWR**

**System Log Message**  FM: High power difference at LCC lcc SIB_Lsib-slot_FB:fiber-bundle VCSEL vsel Channel vsel-channel connected to F13SIB:from-sfc-sib  
**Description**  In a T640 routing node (called a SIB-L), the power difference at the VCSEL (vcsel) channel connected to the F13SIB (F13SIB:from-sfc-sib) is high, indicating an issue with the optical path.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Action**  Contact your technical support representative.
In a Tx-Plus routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the T1600 routing nodes (called ST-SIB-Ls) and the SIBs in the TX Matrix Plus platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated ST-SIB-L detected higher than configured receive power levels on the indicated fiber-bundles connected to the indicated LCC ST-SIB-L.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**Action**  Contact your technical support representative.

---

**CHASSISD_FM_ERROR_SIB_S_FB_HSR**

**System Log Message**  FM: HSR error occurred on link from LCC{lcc} SIB-L port F(l-row,l-port) to SIB-S#sib-slot port F(s-row,s-port)

**Description**  In a routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the TX Matrix platform (called SIB-Ss) and the SIBs in the T640 routing nodes (called ST-SIB-Ls). The chassis process (chassisd) on the TX Matrix platform detected an error in the electrical path between the indicated port on the indicated SIB-S and the indicated port on a SIB-L installed in the indicated routing node (line-card chassis, or LCC).

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**Action**  Contact your technical support representative. For more information, see KB18810.

---

**CHASSISD_FM_ERROR_SIB_S_FB_SMF**

**System Log Message**  FM: error-message error occurred on link to-from-sib-s SIB-S#sib-slot to-from-lcc LCC{lcc}

**Description**  In a routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the TX Matrix platform (called SIB-Ss) and the SIBs in the T640 routing nodes (line-card chassis, or LCCs). The chassis process (chassisd) on the TX Matrix platform detected the indicated error as packets that were traveling to or from the indicated LCC were translated between electrical and optical media.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**Action**  Contact your technical support representative. For more information, see KB18811.
### CHASSISD_FM_MEMORY_ERROR

**System Log Message**  
*function-name*: unable to allocate memory; *error-message*

**Description**  
The chassis process (chassisd) could not allocate memory for a fabric operation.

**Type**  
Error: An error occurred

**Severity**  
warning

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative.

### CHASSISD_FM_SIB_ERROR

**System Log Message**  
Fabric management error for SIB *sib-slot*: *error-message*

**Description**  
The chassis process (chassisd) detected the indicated type of error on the indicated Switch Interface Board (SIB) and performed the indicated action.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative. For more information, see [KB18812](#).

### CHASSISD_FM_SIB_FPC_TYPE_ERROR

**System Log Message**  
*SIB sib-slot* does not support features required for FPC Type 4

**Description**  
The indicated Switch Interface Board (SIB) does not support features required by the Flexible PIC Concentrator (FPC) Type 4.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative.

### CHASSISD_FPC_NOT_FOUND

**System Log Message**  
*function-name*: unable to find FPC for PIC attachment operation

**Description**  
The chassis process (chassisd) attempted to bring a Physical Interface Card (PIC) online, but could not find the Flexible PIC Concentrator (FPC) that houses it.

**Type**  
Error: An error occurred

**Severity**  
warning

**Facility**  
LOG_DAEMON
**CHASSISD_FPC_PIC_DETECT_TIMEOUT**

**System Log Message**  
*function-name*: PIC detection on FPC *fpc-slot* timed out

**Description**  
The chassis process (chassisd) expects to receive notification within a timeout period that each Flexible PIC Concentrator (FPC) has attached the Physical Interface Cards (PICs) that it houses. It did not receive notification from the indicated FPC.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative. For more information, see [KB18813](#).

**CHASSISD_FPC_TYPE_SIB_TYPE_ERROR**

**System Log Message**  
Installed SIB type (SIB-I8-F16) does not support features required by FPC *fpc-slot*

**Description**  
The indicated Flexible PIC Concentrator (FPC) is Type 4, which is not supported by Switch Interface Board (SIB) type SIB-I8-F16.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative.

**CHASSISD_FRU_ALREADY_OFFLINE**

**System Log Message**  
*fru-name* *fru-slot* already offline

**Description**  
The chassis process (chassisd) received a request to take the indicated component (field-replaceable unit, or FRU) offline, but the FRU was already offline.

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_DAEMON

**CHASSISD_FRU_ALREADY_ONLINE**

**System Log Message**  
Received request to bring *fru-name* *fru-slot* online; it was already online

**Description**  
The chassis process (chassisd) received a request to bring the indicated component (field-replaceable unit, or FRU) online, but the FRU was already online.

**Type**  
Event: This message reports an event, not an error

**Severity**  
warning
Facility LOG_DAEMON

CHASSISD_FRU_EVENT
System Log Message function-name: state fru-name fru-slot
Description The state of the indicated component (field-replaceable unit, or FRU) changed as indicated.
Type Event: This message reports an event, not an error
Severity notice
Facility LOG_DAEMON

CHASSISD_FRU_INVALID_SLOT
System Log Message FRU fru-name is not supported in current slot
Description The chassis process (chassisd) detected that the indicated hardware component (field-replaceable unit, or FRU) was inserted in a slot that is not valid for that component type.
Type Error: An error occurred
Severity critical
Facility LOG_DAEMON
Action Contact your technical support representative. For more information, see KB18814.

CHASSISD_FRU_IO_ERROR
System Log Message function-name: fru-name operation error: reason (error-message)
Description The chassis process (chassisd) could not perform the indicated I/O operation on the indicated component (field-replaceable unit, or FRU).
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Contact your technical support representative.

CHASSISD_FRU_IO_OFFSET_ERROR
System Log Message function-name: fru-name operation error: reason 0xoffset (error-message)
Description The chassis process (chassisd) could not perform the indicated I/O operation at the indicated byte offset.
Type Error: An error occurred
Severity error
### CHASSISD_FRU_IPC_WRITE_ERROR

**System Log Message**  
function-name: FRU fru-name, errno error-code, error-message

**Description**  
The chassis process (chassisd) could not send an interprocess communication (IPC) message to the indicated component (field-replaceable unit, or FRU) because of the indicated error.

**Type**  
Error: An error occurred

**Severity**  
warning

**Facility**  
LOG_DAEMON

### CHASSISD_FRU_OFFLINE_FAILED

**System Log Message**  
Unable to take fru-name fru-slot offline because FRU sequencer is active: reason

**Description**  
The chassis process (chassisd) could not take the indicated component (field-replaceable unit, or FRU) offline for the indicated reason.

**Type**  
Event: This message reports an event, not an error

**Severity**  
otice

**Facility**  
LOG_DAEMON

### CHASSISD_FRU_OFFLINE_NOTICE

**System Log Message**  
Taking fru-name fru-slot offline: reason

**Description**  
The chassis process (chassisd) took the indicated component (field-replaceable unit, or FRU) offline for the indicated reason.

**Type**  
Event: This message reports an event, not an error

**Severity**  
otice

**Facility**  
LOG_DAEMON

### CHASSISD_FRU_OFFLINE_TIMEOUT

**System Log Message**  
Offline request timed out; fru-name fru-slot restarted

**Description**  
The indicated component (field-replaceable unit, or FRU) did not go offline within the time period that is normally sufficient for synchronized shutdown. After generating this message, the chassis process (chassisd) tried several times to take the FRU offline and powered it down if all attempts failed.

**Type**  
Event: This message reports an event, not an error

**Severity**  
warning
Facility LOG_DAEMON

CHASSISD_FRU_ONLINE_TIMEOUT
System Log Message function-name: attempt to bring fru-name fru-slot online timed out
Description The indicated component (field-replaceable unit, or FRU) did not come online within the time that is normally sufficient. After generating this message, the chassis process (chassisd) tried to bring the FRU online several more times. If all attempts failed, the chassisd process raised an alarm and left the FRU offline.
Type Event: This message reports an event, not an error
Severity error
Facility LOG_DAEMON

CHASSISD_FRU_STEP_ERROR
System Log Message fru-name fru-slot at step step-number
Description The power-on sequence for the indicated component (field-replaceable unit, or FRU) failed at the indicated point.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

CHASSISD_FRU_UNRESPONSIVE
System Log Message Error for fru-name fru-slot: error-message; action
Description The chassis process (chassisd) tried to bring the indicated component (field-replaceable unit, or FRU) online, but the attempt failed in the indicated way. As a result, the chassisd process performed the indicated action.
Type Event: This message reports an event, not an error
Severity error
Facility LOG_DAEMON

CHASSISD_FRU_UNRESPONSIVE_RETRY
System Log Message Attempt count to power on fru-name fru-slot timed out; restarted it
Description The chassis process (chassisd) tried the indicated number of times to bring the indicated component (field-replaceable unit, or FRU) online, but the attempts failed. In another attempt to bring the FRU online, the chassisd process issued the restart command for the FRU.
Type Event: This message reports an event, not an error
Severity error
Facility LOG_DAEMON

CHASSISD_FRU_UNSUPPORTED
System Log Message chassisd invalidated support for fru-name fru-slot
Description The chassis process (chassisd) invalidated support for the indicated component (field-replaceable unit, or FRU) during initialization.
Type Error: An error occurred
Severity warning

CHASSISD_FRU_VERSION_MISMATCH
System Log Message component version mismatch for fru-name -- expected expected-value, got received-value
Description The chassis process (chassisd) verifies that it supports the revision level or version of a component (field-replaceable unit, or FRU). The revision level for the indicated FRU was unsupported or otherwise invalid.
Type Event: This message reports an event, not an error
Severity error
Facility LOG_DAEMON
Action Upgrade the FRU.

CHASSISD_GASIC_ID_ERROR
System Log Message Fchip: invalid SIB slot
Description A routine tried to determine the identifier for an application-specific integrated circuit (ASIC) on a Switch Interface Board (SIB). The attempt failed, because the supplied SIB slot number was invalid.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Contact your technical support representative.

CHASSISD_GBUS_NOT_READY
System Log Message function-name: fru-name not ready for power up (RTIME_PWR_COND = 0xvalue)
Description The GBUS was not ready when the chassis process (chassisd) first tried to power it on, and the power-up operation timed out.
Type Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Cause  The probable cause is hardware error.

Action  Contact your technical support representative. For more information, see KB18815.

CHASSISD_GBUS_READBACK_ERROR

System Log Message  Readback error from GBUS for fru-name fru-slot ([0xgbus-address, 0xgbus-registers] -> 0xreturn-value)
Description  There was an error when the chassis process (chassisd) tried to read back information from the GBUS on the indicated component (field-replaceable unit, or FRU).
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Cause  The probable cause is hardware error.

Action  Contact your technical support representative. For more information, see KB18816.

CHASSISD_GBUS_RESET_EVENT

System Log Message  fru-name#fru-slot - command
Description  The chassis process (chassisd) reset the GBUS for the indicated component (field-replaceable unit, or FRU). This is a normal part of startup.
Type  Event: This message reports an event, not an error
Severity  warning
Facility  LOG_DAEMON

CHASSISD_GBUS_SANITY_ERROR

System Log Message  function-name: fru-name fru-slot -- management bus failed sanity test
Description  The chassis process (chassisd) checks its management GBUS with a set of test operations when it is started. The tests failed.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative.
CHASSISD_GENERIC_ERROR

System Log Message: function-name: error-message

Description: The chassis process (chassisd) detected the indicated error.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Perform any corrective actions mentioned in the error message.

CHASSISD_GENERIC_WARNING

System Log Message: function-name: error-message

Description: The chassis process (chassisd) generated the indicated warning message.

Type: Error: An error occurred
Severity: notice
Facility: LOG_DAEMON

CHASSISD_GETTIMEOFDAY

System Log Message: Unexpected error from gettimeofday: error-code -- error-message

Description: The chassis process (chassisd) could not obtain the time of day because of the indicated error.

Type: Error: An error occurred
Severity: warning
Facility: LOG_DAEMON

CHASSISDGRES_UNSUPP_PIC

System Log Message: Unable to enable graceful Routing Engine switchover; PIC does not support it

Description: The chassis process (chassisd) could not enable graceful Routing Engine switchover because an installed PIC does not support it.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

CHASSISD_HIGH_TEMP_CONDITION

System Log Message: Chassis temperature over temperature degrees C (message)
Description: The temperature of one or more components (field-replaceable units, or FRUs) exceeded the indicated temperature, which is the lower of two thresholds. The fans (and impellers, if applicable) were in the indicated state. The chassis process (chassisd) increased the speed of all functioning fans and impellers to full speed.

Type: Event: This message reports an event, not an error

Severity: warning

Facility: LOG_DAEMON

Action: Increase cooling in the area around the chassis.

CHASSISD_HOST_TEMP_READ

System Log Message: Error reading host temperature sensor

Description: The chassis process (chassisd) could not read the temperature sensors on the routing platform.

Type: Error: An error occurred

Severity: notice

Facility: LOG_DAEMON

CHASSISD_HSR_CONFIG_READ_ERROR

System Log Message: function-name: unable to read configuration for HSR identifier

Description: The indicated function could not read the configuration for the indicated high-speed receiver (HSR).

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

CHASSISD_HSR_CONFIG_WRITE_ERROR

System Log Message: function-name: unable to write configuration for HSR identifier

Description: The indicated routine could not write to the configuration for the indicated high-speed receiver (HSR).

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

CHASSISD_HSR_ELEMENTS_ERROR

System Log Message: Provided number of HSR elements (count) was invalid
The indicated routine for processing a certain number of high-speed receiver (HSR) elements failed, because the supplied number of elements was invalid.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

### CHASSISD_HSR_FIFO_ERROR

**System Log Message**  function-name: FIFO read failed for HSR identifier

**Description**  A first in, first out (FIFO) read error occurred during execution of the indicated routine on the indicated high-speed receiver (HSR).

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**Action**  For more information, see KB18817.

### CHASSISD_I2CS_READBACK_ERROR

**System Log Message**  Readback error from I2C slave for fru-name fru-slot ([0x<i2cs-address>, 0x<offset>] -> 0x<error-code>)

**Description**  The chassis process (chassisd) could not read back information from the I2C slave (I2CS) about the indicated component (field-replaceable unit, or FRU).

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**Cause**  The probable cause is hardware error.

**Action**  Contact your technical support representative.

### CHASSISD_I2C_BAD_IDEEPROM_FORMAT

**System Log Message**  Invalid IDEEPROM format for fru-name

**Description**  The chassis process (chassisd) determined that the IDEEPROM format specified for the indicated type of hardware component (field-replaceable unit, or FRU) is not valid for it.

**Type**  Error: An error occurred

**Severity**  critical

**Facility**  LOG_DAEMON
Action  Contact your technical support representative. For more information, see KB18818.

**CHASSISD_I2C_FIC_PRESENCE_READ**

*System Log Message*  *function-name: fru-name* unable to get presence masks (*error-message*)

*Description*  The chassis process (chassisd) could not read I2C data with presence information about the indicated component (field-replaceable unit, or FRU).

*Type*  Error: An error occurred

*Severity*  error

*Facility*  LOG_DAEMON

*Action*  Contact your technical support representative.

**CHASSISD_I2C_GENERIC_ERROR**

*System Log Message*  *function-name: error-message*

*Description*  The indicated error occurred during an I2C access library operation.

*Type*  Error: An error occurred

*Severity*  error

*Facility*  LOG_DAEMON

*Action*  Contact your technical support representative.

**CHASSISD_I2C_INVALID_ASSEMBLY_ID**

*System Log Message*  '0xassembly-id' is invalid value for *fru-name* assembly ID

*Description*  The assembly ID for the indicated component (field-replaceable unit, or FRU) was not valid for its type.

*Type*  Error: An error occurred

*Severity*  error

*Facility*  LOG_DAEMON

*Action*  Contact your technical support representative.

**CHASSISD_I2C_IOCTL_FAILURE**

*System Log Message*  *function-name: operation* ioctl failure for group *group-id* at address 0x*address* (errno *error-code*)

*Description*  The chassis process (chassisd) could not perform the indicated ioctl() operation on the I2C data for the indicated component (field-replaceable unit, or FRU).

*Type*  Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Contact your technical support representative.

**CHASSISD_I2C_IO_FAILURE**

System Log Message function-name: fru-name operation failed for group group-id at address 0xaddress
Description The chassis process (chassisd) could not perform the indicated I/O operation on the I2C data for the indicated component (field-replaceable unit, or FRU).

Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Contact your technical support representative.

**CHASSISD_I2C_MIDPLANE_CORRUPT**

System Log Message Corruption on midplane ID EEPROM (ID: 0xassembly-id, MAC address: 0xmac-address, 0xversion)
Description The chassis process (chassisd) found corrupted information when it tried to verify the parameters of the midplane's I2C ID EEPROM.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Contact your technical support representative.

**CHASSISD_I2C_RANGE_ERROR**

System Log Message function-name: requested offset was out of range (offset offset + nbytes count > 256)
Description The indicated offset, which is greater than 256, was specified in a read request for an I2C device.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause No I2C device uses or has storage above an offset of 256.
Action Contact your technical support representative.
CHASSISD_I2C_READ_ERROR

System Log Message  
function-name: read error for group group-id at address 0xaddress, offset offset

Description  
The chassis process (chassisd) could not read I2C data from the indicated device.

Type  
Error: An error occurred

Severity  
error

Facility  
LOG_DAEMON

Action  
Contact your technical support representative. For more information, see KB18819.

CHASSISD_I2C_WRITE_ERROR

System Log Message  
function-name: write error for group group-id at address 0xaddress, offset offset

Description  
The chassis process (chassisd) could not write I2C data to the indicated device.

Type  
Error: An error occurred

Severity  
error

Facility  
LOG_DAEMON

Action  
Contact your technical support representative.

CHASSISD_IDEEPROM_READ_ERROR

System Log Message  
Unable to read fru-name ID EEPROM

Description  
The chassis process (chassisd) could not read the I2C ID EEPROM of the indicated component (field-replaceable unit, or FRU).

Type  
Error: An error occurred

Severity  
error

Facility  
LOG_DAEMON

Action  
Contact your technical support representative.

CHASSISD_IFDEV_CREATE_FAILURE

System Log Message  
function-name: unable to create interface device for interface-name (error-message)

Description  
The chassis process (chassisd) creates initial interface devices for newly installed Physical Interface Cards (PICs) and pseudodevices. It could not create a device for the indicated PIC or pseudodevice.

Type  
Error: An error occurred

Severity  
error

Facility  
LOG_DAEMON
Cause Necessary resources might have been unavailable.

Action Contact your technical support representative.

CHASSISD_IFDEV_CREATE_NOTICE

System Log Message function-name: created device-name for interface-name

Description The chassis process (chassisd) created the initial interface device for the indicated newly installed Physical Interface Card (PIC) or pseudodevice.

Type Event: This message reports an event, not an error

Severity notice

Facility LOG_DAEMON

CHASSISD_IFDEV_DETACH_ALL_PSEUDO

System Log Message ifdev_detach(pseudo devices: all)

Description The chassis process (chassisd) detached the interface devices for all pseudodevices.

Type Event: This message reports an event, not an error

Severity notice

Facility LOG_DAEMON

CHASSISD_IFDEV_DETACH_FPC

System Log Message ifdev_detach_fpc(fpc-slot)

Description The chassis process (chassisd) detached the interface devices for all Physical Interface Cards (PICs) installed in the indicated Flexible PIC Concentrator (FPC).

Type Event: This message reports an event, not an error

Severity notice

Facility LOG_DAEMON

Action For more information, see KB18821.

CHASSISD_IFDEV_DETACH_PIC

System Log Message ifdev_detach_pic(fpc-slot/pic-slot)

Description The chassis process (chassisd) detached the interface devices for the indicated Physical Interface Card (PIC).

Type Event: This message reports an event, not an error

Severity notice

Facility LOG_DAEMON
### CHASSISD_IFDEV_DETACH_PSEUDO

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>ifdev_detach(pseudo devices: porttype.port-type, sdev=sdev-number, edev=edev-number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) detached the interface devices for the indicated pseudodevices.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_IFDEV_DETACH_TLV_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>ifdev_detach: rtslib_ifdm_change_tlvs failed for slot fpc-slot dev idx device-id error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) asked the kernel to remove the indicated interface from the kernel interface table. The request failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_IFDEV_GETBYNAME_NOTICE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: ifdm get_by_name failed for interface-type interface device interface-name (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) failed to find the indicated interface device, even though it just created it.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>There was a problem with interface state creation.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### CHASSISD_IFDEV_GET_BY_INDEX_FAIL

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: rtslib_ifdm_get_by_index failed: error-code - error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not obtain information about an interface device.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>--------------</td>
<td>------------</td>
</tr>
</tbody>
</table>

### CHASSISD_IFDEV_GET_BY_NAME_FAIL

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to retrieve information for interface device <code>interface-name: error-message</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not obtain information about the indicated interface device.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_IFDEV_NO_MEMORY

<table>
<thead>
<tr>
<th>System Log Message</th>
<th><code>function-name</code>: unable to allocate memory for <code>interface-type</code> interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not allocate memory when creating an interface device for the indicated interface type.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Resources on the system are extremely limited.</td>
</tr>
<tr>
<td>Action</td>
<td>Eliminate the resource limitations and restart the PIC that houses the interface for which the interface device could not be created.</td>
</tr>
</tbody>
</table>

### CHASSISD_IFDEV_RETRY_NOTICE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th><code>function-name</code>: attempt <code>count</code> to add interface device <code>interface-name</code> failed (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) tried the indicated number of times to create the indicated interface device, but the attempts failed. After generating this message, the chassisd process waited a while for resources to free up and tried again.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Necessary resources might have been unavailable. They should become available soon.</td>
</tr>
</tbody>
</table>

### CHASSISD_IFDEV_RTSLIB_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th><code>function-name</code>: <code>library-function-name</code> failed (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not create an interface device because an error occurred during the indicated call to the routing socket library.</td>
</tr>
</tbody>
</table>
**CHASSISD_IOCTL_FAILURE**

**System Log Message**  
`function-name: reason for fru-name (error-message)`

**Description**  
The chassis process (chassisd) could not perform the indicated ioctl() operation on the indicated component (field-replaceable unit, or FRU).

**CHASSISD_IPC_ANNOUNCE_TIMEOUT**

**System Log Message**  
`function-name: no ack received from fru-type for fru-name fru-slot state change (0xsent-mask, acks 0xack-mask)`

**Description**  
The chassis process (chassisd) notified the indicated components (field-replaceable units, or FRUs) that the component in the indicated slot was changing state. It did not receive the expected acknowledgment.

**CHASSISD_IPC_CONNECTION_DROPPED**

**System Log Message**  
Dropped IPC connection for fru-name fru-slot

**Description**  
The chassis process (chassisd) dropped its interprocess communication (IPC) connection to the indicated component (field-replaceable unit, or FRU).

**Type**  
Event: This message reports an event, not an error

**Severity**  
warning

**Facility**  
LOG_DAEMON

**Action**  
For more information, see KB18823.
### CHASSISD_IPC_DAEMON_WRITE_ERROR

**System Log Message**  
pipe_write failure for connection-id; connection error: error-message (errno error-code)

**Description**  
The chassis process (chassisd) could not write to a socket, because of the indicated error. The socket is for a connection to another process that runs on the Routing Engine and helps manage the chassis.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative. For more information, see KB18824.

### CHASSISD_IPC_ERROR

**System Log Message**  
function-name: error-message

**Description**  
An error occurred when the chassis process (chassisd) received an interprocess communication (IPC) message.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative.

### CHASSISD_IPC_FLUSH_ERROR

**System Log Message**  
function-name: flush operation failed for fru-name fru-slot

**Description**  
The chassis process (chassisd) could not write to a socket that it was using to communicate with the indicated component (field-replaceable unit, or FRU).

**Type**  
Error: An error occurred

**Severity**  
warning

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative.

### CHASSISD_IPC_MSG_DROPPED

**System Log Message**  
Dropping message from connection queue: type = message-type, subtype = message-subtype

**Description**  
The chassis process (chassisd) dropped an interprocess communication (IPC) message because the message queue had already reached maximum capacity.

**Type**  
Error: An error occurred
Severity         error
Facility         LOG_DAEMON
Cause            The connection to a component (field-replaceable unit, or FRU) no longer exists, so the chassisd process cannot send all messages immediately as it usually does.
Action           Contact your technical support representative. For more information, see KB18825.

CHASSISD_IPC_MSG_ERROR

System Log Message  function-name: error code error-code, type message-type, subtype message-subtype, opcode message-opcode
Description        The chassis process (chassisd) detected an error in an interprocess communication (IPC) message with the indicated characteristics.
Type               Error: An error occurred
Severity           error
Facility           LOG_DAEMON
Action             Contact your technical support representative.

CHASSISD_IPC_MSG_FRU_NOT_FOUND

System Log Message  function-name: unable to locate FRU for message with type message-type, subtype message-subtype, opcode message-opcode
Description        The chassis process (chassisd) could not locate a component (field-replaceable unit, or FRU) to handle the interprocess communication (IPC) message with the indicated characteristics that it received. The message was ignored.
Type               Error: An error occurred
Severity           error
Facility           LOG_DAEMON
Action             Contact your technical support representative.

CHASSISD_IPC_MSG_QFULL_ERROR

System Log Message  Dropping message from connection queue: type = message-type, subtype = message-subtype
Description        The chassis process (chassisd) had to discard a message because the queue of messages waiting for a connection was already full.
Type               Error: An error occurred
Severity           error
Facility           LOG_DAEMON
CHASSISD_IPC_MSG_UNHANDLED

System Log Message: function-name: unable to handle fru-name message with type message-type, subtype message-subtype, length length, opcode message-opcode, error error-code

Description: The chassis process (chassisd) received an interprocess communication (IPC) message about the indicated FRU. The message had the indicated characteristics. The chassisd process could not handle the message.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative. For more information, see KB18826.

CHASSISD_IPC_UNEXPECTED_MSG

System Log Message: function-name: invalid message received: message (message type message-type, subtype message-subtype)

Description: The chassis process (chassisd) received an unexpected message with the indicated characteristics.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

CHASSISD_IPC_UNEXPECTED_RECV

System Log Message: Received unexpected message from connection-id: type = message-type, subtype = message-subtype

Description: The chassis process (chassisd) received an unexpected message from a peer connection.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

CHASSISD_IPC_WRITE_ERROR

System Log Message: function-name: pipe_write failure for SCC connection with error error-code (error-message)

Description: A line-card chassis in a routing matrix attempted to send data to the TX Matrix platform (switch-card chassis, or SCC) over a pipe. The attempt failed with the indicated error.

Type: Error: An error occurred
### CHASSISD_IPC_WRITE_ERR_NOPIPE

<table>
<thead>
<tr>
<th>Severity</th>
<th>warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
FRU has no connection pipe *function-name fru-name*

**Description**
The chassis process (chassisd) could not send a message to the indicated component (field-replaceable unit, or FRU) because the interprocess communication (IPC) pipe to the FRU no longer existed.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_IPC_WRITE_ERR_NULL_ARGS

<table>
<thead>
<tr>
<th>Severity</th>
<th>warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
FRU has no connection arguments *function-name fru-name*

**Description**
The chassis process (chassisd) could not send a message to the indicated component (field-replaceable unit, or FRU) because one or more required parameters had a null value.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see <a href="#">KB18827</a>.</td>
</tr>
</tbody>
</table>

### CHASSISD_ISSU_BLOB_ERROR

<table>
<thead>
<tr>
<th>Severity</th>
<th>notice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
fru-name: *error-message*

**Description**
The chassisd process (chassisd) detected the indicated error while handling blobs (opaque information) for the indicated field replaceable unit (fru). The blobs are used by the fru to store state information across in service software upgrade (issu) reboot.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_ISSU_DAEMON_ERROR

<table>
<thead>
<tr>
<th>Severity</th>
<th>warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
Daemon [process-name] state:<state> error:<error-message>

**Description**
The chassisd process (chassisd) encountered the indicated error in the indicated in service software upgrade (issu) state for the indicated daemon.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
</table>
CHASSISD_ISSU_ERROR

System Log Message  action error-code(error-message)

Description  The chassisd process (chassisd) encountered the indicated error for the indicated in
service software upgrade process (issu) action.

Type  Error: An error occurred

Severity  notice

Facility  LOG_DAEMON

CHASSISD_ISSU_FRU_ERROR

System Log Message  fru-name: state[state] error-message

Description  The chassisd process (chassisd) encountered the indicated error during the in service
software upgrade for the indicated field replaceable unit (fru).

Type  Error: An error occurred

Severity  notice

Facility  LOG_DAEMON

CHASSISD_ISSU_FRU_IPC_ERROR


Description  The chassisd process (chassisd) detected the indicated error for the indicated field
replaceable unit (fru) during in service software upgrade (issu).

Type  Error: An error occurred

Severity  notice

Facility  LOG_DAEMON

CHASSISD_JTREE_ERROR

System Log Message  jtree terminate operation returned error-code

Description  The chassis process (chassisd) received the indicated error when executing the JUNOS
system call that terminates the jtree.

Type  Event: This message reports an event, not an error

Severity  warning

Facility  LOG_DAEMON
### CHASSISD_LCC_RELEASE_MASTERSHIP

**System Log Message**: Backup Routing Engine became master, because JUNOS version of former master did not match SCC master

**Description**: The chassis process (chassisd) running on the master Routing Engine on a T640 routing node (line-card chassis, or LCC, in a routing matrix) relinquished mastership to the backup Routing Engine in the LCC.

**Type**: Event: This message reports an event, not an error

**Severity**: notice

**Facility**: LOG_DAEMON

**Cause**: The version of the JUNOS software on the master Routing Engine did not match the version on the TX Matrix platform's master Routing Engine. The version on the backup Routing Engine did match the TX Matrix platform.

### CHASSISD_LOST_MASTERSHIP

**System Log Message**: Routing Engine lost mastership; exiting

**Description**: The chassis process (chassisd) running on the master Routing Engine exited, because mastership switched to the other Routing Engine.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

**Action**: Contact your technical support representative.

### CHASSISD_MAC_ADDRESS_AE_ERROR

**System Log Message**: chassisd MAC address allocation error for ae<device-id>

**Description**: The chassis process (chassisd) could not obtain a media access control (MAC) address for the indicated aggregated Ethernet interface because of an internal error.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

### CHASSISD_MAC_ADDRESS_CBP_ERROR

**System Log Message**: chassisd MAC address allocation error for CBP

**Description**: The chassis process (chassisd) could not obtain a media access control (MAC) address for a customer backbone port because of an internal error.

**Type**: Error: An error occurred
### Severity
- **error**

### Facility
- **LOG_DAEMON**

### CHASSISD_MAC_ADDRESS_ERROR

**System Log Message**: chassisd MAC address allocation exceed error for FPC fpc-slot, PIC pic-slot, port port

**Description**: The chassis process (chassisd) could not obtain a media access control (MAC) address for the indicated interface because of an internal error.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

**Action**: For more information, see KB18828.

### CHASSISD_MAC_ADDRESS_FABRIC_ERR

**System Log Message**: Unable to allocate MAC address for fabric interface device-id

**Description**: The chassis process (chassisd) could not obtain a media access control (MAC) address for the indicated fabric interface because of an internal error.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

**Action**: For more information, see KB18829.

### CHASSISD_MAC_ADDRESS_IRB_ERROR

**System Log Message**: chassisd MAC address allocation error for IRB

**Description**: The chassis process (chassisd) could not obtain a media access control (MAC) address for an integrated routing and bridging interface because of an internal error.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

### CHASSISD_MAC_ADDRESS_PIP_ERROR

**System Log Message**: chassisd MAC address allocation error for PIP

**Description**: The chassis process (chassisd) could not obtain a media access control (MAC) address for a provider instance port because of an internal error.

**Type**: Error: An error occurred

**Severity**: error
<table>
<thead>
<tr>
<th><strong>Facility</strong></th>
<th>LOG_DAEMON</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHASSISD_MAC_ADDRESS_PLT_ERROR</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>chassisd MAC address allocation error for PLT</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The chassis process (chassisd) could not obtain a media access control (MAC) address for the pseudo logical tunnel interface because of an internal error.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>CHASSISD_MAC_ADDRESS_SWFAB_ERR</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to allocate MAC address for swfabric interface device-id</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The chassis process (chassisd) could not obtain a media access control (MAC) address for the indicated swfabric interface because of an internal error.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>CHASSISD_MAC_ADDRESS_VLAN_ERROR</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>chassisd MAC address allocation error for VLAN</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The chassis process (chassisd) could not obtain a media access control (MAC) address for a vlan interface because of an internal error.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>CHASSISD_MAC_DEFAULT</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Using default MAC address base</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The chassis process (chassisd) used the default base media access control (MAC) address.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>info</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>CHASSISD_MALLOC_FAILURE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>function-name: chassisd malloc failed, aborting</td>
</tr>
</tbody>
</table>
### CHASSISD_MASTER_PCG_REMOVED

**System Log Message**: Master PCG (slot `pcg-slot`) removed; powering down Packet Forwarding Engine complex

**Description**: The master Packet Forwarding Engine Clock Generator (PCG) was removed. The PCG provides the system clock for all application-specific integrated circuits (ASICs) in the routing platform, so packet forwarding halts until the Packet Forwarding Engine is restarted and a PCG is functioning as master.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>critical</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_MASTER_SCG_REMOVED

**System Log Message**: Master SCG (slot `fru-slot`) removed; powering it down

**Description**: The master SONET Clock Generator (SCG) was removed. The SCG provides the clock for SONET/SDH interface timing, so those interfaces might drop packets and experience other errors until a new clock source is established.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>critical</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_MBUS_ERROR

**System Log Message**: `fru-name fru-slot`: management bus failed sanity test

**Description**: Startup tests on the indicated FRU's management bus failed.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see <a href="#">KB18830</a>.</td>
</tr>
</tbody>
</table>
# CHASSISD_MCHASSIS_SWITCH_WARNING

**System Log Message**  
CB settings on **chassis-type old-index** changed: switch is now 'value', chassis index is now **0x new-index**

**Description**  
A toggle switch on the back of the Control Board on each platform in a routing matrix is set to 'M' (multichassis) on the T640 routing nodes and to 'S' (single-chassis) on the TX Matrix platform. On a T640 routing node, the adjacent dial is set to the node’s index number in the routing matrix (0 through 3); on the TX Matrix platform it is set to 0. The setting of the toggle switch, the dial, or both, changed to the indicated values on the indicated platform. The new settings take effect when the routing matrix next reboots.

**Type**  
Event: This message reports an event, not an error

**Severity**  
warning

**Facility**  
LOG_DAEMON

**Action**  
If the changes were accidental, return the toggle and dial to the correct settings before the next reboot. If the changes were intended, disconnect and move the cables on the TX Matrix platform Switch Interface Board (SIB) to the row that corresponds to the T640 routing node’s new index number.

# CHASSISD_MCS_INTR_ERROR

**System Log Message**  
Received SIGUSR2 without any interrupts pending

**Description**  
The chassis process (chassisd) received the indicated interrupt signal. The signal normally indicates that an event on the Miscellaneous Control Subsystem (MCS) requires servicing. However, the chassisd process did not find such an event pending. This error does not usually cause component failure.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative.

# CHASSISD_MGR_CONNECT

**System Log Message**  
function-name evSelectFD: initial pipe create aborted (errno error-code)

**Description**  
The chassis process (chassisd) could not to open a pipe for interprocess communication (IPC) to a component (field-replaceable unit, or FRU).

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative.
CHASSISD_MIC_OFFLINE_NOTICE
System Log Message: Taking MIC mic-slot in FPC fpc-slot offline: reason
Description: The chassis process (chassisd) took the indicated MIC offline, for the indicated reason.
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON

CHASSISD_MULTILINK_BUNDLES_ERROR
System Log Message: Unable to set multilink Frame Relay UNI NNI bundles for PIC pic-slot in FPC fpc-slot
Description: The chassis process (chassisd) could not create multilink Frame Relay user-to-network interface and network-to-network interface (MLFR UNI NNI [FRF.16]) bundles for the indicated PIC.
Type: Error: An error occurred
Severity: warning
Facility: LOG_DAEMON
Action: Contact your technical support representative.

CHASSISD_NO_PCGS
System Log Message: No PCG status
Description: The chassis process (chassisd) could not find an operational Packet Forwarding Engine Clock Generator (PCG). Packet forwarding is halted until a PCG becomes operational.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

CHASSISD_NO_SCGS
System Log Message: No SCG state
Description: The chassis process (chassisd) could not find an operational SONET Clock Generator (SCG). To continue functioning correctly, SONET/SDH interfaces that use an SCG as their clock source must find another source.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
### CHASSISD_OFFLINE_NOTICE

**System Log Message**
Routing Engine offline: `message`

**Description**
The chassis process (chassisd) took the Routing Engine offline.

**Type**
Event: This message reports an event, not an error

**Severity**
critical

**Facility**
LOG_DAEMON

**Action**
Contact your technical support representative.

### CHASSISD_OID_GEN_FAILED

**System Log Message**
Unable to generate OID: `oid` (error-message)

**Description**
The chassis process (chassisd) could not generate an object identifier (OID) for the indicated object.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Contact your technical support representative.

### CHASSISD_OVER_TEMP_CONDITION

**System Log Message**
Chassis temperature over `temperature` degrees C (message); routing platform will shutdown in `duration` seconds if condition persists

**Description**
The temperature of one or more components (field-replaceable units, or FRUs) exceeded the indicated temperature, which is the upper of two thresholds. The fans (and impellers, if applicable) were in the indicated state. If the temperature does not go below the threshold within four minutes after the chassis process (chassisd) detects this condition, the chassisd process shuts down the routing platform. When this message was logged, the indicated number of seconds remained before shutdown.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Increase cooling in the area around the chassis. For more information, see KB18832.

### CHASSISD_OVER_TEMP_SHUTDOWN_TIME

**System Log Message**
Chassis temperature above `temperature` degrees C description (`> duration` seconds); powering down all FRUs
<table>
<thead>
<tr>
<th>Description</th>
<th>The chassis process (chassisd) shut down the routing platform because the temperature of one or more components exceeded the indicated threshold temperature for the indicated amount of time. Continued operation at the excessive temperature could damage the routing platform.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>critical</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Increase cooling in the area around the chassis. For more information, see KB18833</td>
</tr>
</tbody>
</table>

### CHASSISD_PARSE_COMPLETE

| System Log Message | Using new configuration |
| Description | The chassis process (chassisd) successfully parsed its configuration file. |
| Type | Event: This message reports an event, not an error |
| Severity | info |
| Facility | LOG_DAEMON |

### CHASSISD_PCIE_ERROR

| System Log Message | function-name: error-message |
| Description | While performing an operation on the PCI bus, the chassis process (chassisd) encountered the indicated error. |
| Type | Error: An error occurred |
| Severity | error |
| Facility | LOG_DAEMON |
| Cause | A software or a hardware problem occurred. |
| Action | Contact your technical support representative. |

### CHASSISD_PEER_UNCONNECTED

| System Log Message | function-name: peer not connected |
| Description | The chassis process (chassisd) processed a packet for a peer with an invalid or missing connection. |
| Type | Event: This message reports an event, not an error |
| Severity | error |
| Facility | LOG_DAEMON |
Cause  In most cases, this error is caused by peers transitioning up and down unexpectedly. The error is usually transient and nonfatal.

<table>
<thead>
<tr>
<th>CHASSISD_PEM_BREAKER_TRIP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
<tr>
<td><strong>Action</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHASSISD_PEM_IMPROPER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
<tr>
<td><strong>Action</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHASSISD_PEM_INPUT_BAD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
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<tr>
<td><strong>Action</strong></td>
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</table>

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<thead>
<tr>
<th>CHASSISD_PEM_NOT_SUFFICIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
</tbody>
</table>
Type         Error: An error occurred
Severity     error
Facility     LOG_DAEMON
Action       Install at least one three-input 240-A power supply.

CHASSISD_PEM_OVERLOAD

System Log Message  Overload condition for power supply pem-slot (status bits: 0xstatus-code);
Description         The indicated power entry module (PEM) reported an output voltage overload condition.

Type               Event: This message reports an event, not an error
Severity           warning
Facility           LOG_DAEMON
Cause              There might have been excessive load on the PEM.
Action             Contact your technical support representative. For more information, see KB18834.

CHASSISD_PEM_TEMPERATURE

System Log Message  Temperature check bit set for power supply pem-slot; airflow might be inadequate
Description         The chassis process (chassisd) detected that the ‘temperature check bit’ was set in the status bit mask for the indicated power entry module (PEM).

Type               Event: This message reports an event, not an error
Severity           warning
Facility           LOG_DAEMON
Cause              The PEM might have exceeded its temperature threshold, possibly because the airflow through it was inadequate.

CHASSISD_PEM_VOLTAGE

System Log Message  Power supply pem-slot reports problem; check output voltage
Description         The indicated power entry module (PEM) reported a problem with its output voltage.

Type               Event: This message reports an event, not an error
Severity           warning
Facility           LOG_DAEMON
Cause              There might have been excessive load on the PEM.
Action             Contact your technical support representative. For more information, see KB18835.
CHASSISD_PIC_CMD_GIVEUP

System Log Message  
function-name: attempt fpc-slot to bring PIC pic-slot in FPC count online timed out; stopped trying

Description  
The chassis process (chassisd) tried the indicated number of times to bring the indicated PIC online, but stopped trying after all attempts failed.

Type  
Error: An error occurred

Severity  
error

Facility  
LOG_DAEMON

Action  
Contact your technical support representative.

CHASSISD_PIC_CMD_TIMEOUT

System Log Message  
function-name: attempt to bring PIC pic-slot in FPC fpc-slot online timed out

Description  
The chassis process (chassisd) tried to bring the indicated Physical Interface Card (PIC) online. The attempt took longer than the standard time allotted for that operation.

Type  
Error: An error occurred

Severity  
error

Facility  
LOG_DAEMON

Action  
Contact your technical support representative.

CHASSISD_PIC_CONFIG_CONFLICT

System Log Message  
fpc pic-slot pic fpc-slot port mirror instance instance will be applied to both the PICs

Description  
The PIC configuration will be applied to all PICs on the FPC.

Type  
Event: This message reports an event, not an error

Severity  
unknown

Facility  
LOG_DAEMON

CHASSISD_PIC_CONFIG_ERROR

System Log Message  
Unable to create interface devices during attachment of PIC pic-slot in FPC fpc-slot: graceful switchover not supported

Description  
The chassis process (chassisd) did not create an interface device for the indicated PIC because graceful switchover was enabled but is not supported in combination with that PIC type. A PIC must have an interface device to come online, so it remained offline.

Type  
Error: An error occurred

Severity  
error
### CHASSISD_PIC_HWERROR

**System Log Message**
PIC `pic-slot` in FPC `fpc-slot` (PIC type `pic-type`, version `version`) had hardware error

**Description**
The indicated PIC experienced a hardware error. The chassis process (chassisd) did not bring the PIC online.

**Type**
Event: This message reports an event, not an error

**Severity**
warning

**Facility**
LOG_DAEMON

**Action**
Contact your technical support representative. For more information, see KB18836.

### CHASSISD_PIC_OFFLINE_NOTICE

**System Log Message**
Taking PIC `pic-slot` in FPC `fpc-slot` offline: `reason`

**Description**
The chassis process (chassisd) took the indicated Physical Interface Card (PIC) offline, for the indicated reason.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_DAEMON

### CHASSISD_PIC_OID_GEN_FAILED

**System Log Message**
Unable to generate OID for PIC: `pic-name` (error-message)

**Description**
The chassis process (chassisd) could not generate an object identifier (OID) for the indicated Physical Interface Card (PIC).

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Contact your technical support representative.

### CHASSISD_PIC_OID_UNKNOWN

**System Log Message**
Unable to find OID for PIC: `i2c-id`

**Description**
The chassis process (chassisd) could not determine the object identifier (OID) for the Physical Interface Card (PIC) with the indicated identifier.

**Type**
Error: An error occurred
Severity: error  
Facility: LOG_DAEMON  
Action: Contact your technical support representative.

**CHASSISD_PIC_RESET_ON_SWITCHOVER**

- **System Log Message**: PIC `pic-slot` in FPC `fpc-slot` (type `pic-type`: `pic-name`, version `version`) does not support GRES and will be reset on switchover.
- **Description**: The chassis process (chassisd) noted that the Physical Interface Card (PIC) with the indicated characteristics needs to be reset when a graceful switchover occurs.
- **Type**: Event: This message reports an event, not an error.
- **Severity**: warning  
- **Facility**: LOG_DAEMON

**CHASSISD_PIC_SPEED_INVALID**

- **System Log Message**: Set speed for so-`fpc-slot/pic-slot/port` to `default-value` because configured value `current-value` is invalid.
- **Description**: The chassis process (chassisd) set the speed for the indicated Physical Interface Card (PIC) to the indicated value, because the configured value is either higher than the maximum valid value or lower than the minimum valid value.
- **Type**: Error: An error occurred  
- **Severity**: error  
- **Facility**: LOG_DAEMON  
- **Action**: Reconfigure the PIC with a valid speed.

**CHASSISD_PIC_VERSION_ERROR**

- **System Log Message**: Hardware version (`pic-slot`) of PIC `fpc-slot` in FPC `pic-type` (PIC type `version`) is not supported.
- **Description**: The chassis process (chassisd) did not bring the indicated Physical Interface Card (PIC) online, because its hardware version is not supported.
- **Type**: Error: An error occurred  
- **Severity**: warning  
- **Facility**: LOG_DAEMON  
- **Cause**: The PIC requires a hardware upgrade.
- **Action**: Contact your technical support representative.
CHASSISD_PIDFILE_OPEN

System Log Message
Unable to open PID file ‘filename’: errno error-code

Description
The chassis process (chassisd) could not open the file where it stores its process ID (PID).

Type    Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause    The chassisd process might have detected that another chassisd process was running and tried to read the file so that it could use the PID recorded there when terminating the other process.

CHASSISD_PIPE_WRITE_ERROR

System Log Message
Pipe write error: error-message

Description
The chassis process (chassisd) experienced a fatal error while writing to a pipe.

Type    Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause    There was no reader for the pipe.

CHASSISD_POWER_CHECK

System Log Message
fru-name fru-slot not powering up

Description
The chassis process (chassisd) could not power up the indicated component (field-replaceable unit, or FRU), because the FRU did not respond.

Type    Error: An error occurred
Severity error
Facility LOG_DAEMON
Action   For more information, see KB18837.

CHASSISD_POWER_EVENT

System Log Message
Unable to turn off power to fru-name fru-slot; a stand-alone test jumper might be installed

Description
The chassis process (chassisd) could not turn off power to the indicated component (field-replaceable unit, or FRU).

Type    Event: This message reports an event, not an error
Severity warning
<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_DAEMON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cause</td>
<td>A common reason is that a standalone test jumper is installed.</td>
</tr>
</tbody>
</table>

### CHASSISD_POWER_RATINGS_EXCEEDED

**System Log Message**  
PIM/module in slot fru-slot left offline to avoid exceeding chassis power ratings

**Description**  
The chassis process (chassisd) did not bring online the component (field-replaceable unit, or FRU) in the indicated slot, because doing so causes the total power demand of components in the chassis to exceed the chassis’ power ratings. On a J-series Services Router, the component is a Physical Interface Module (PIM) or other module that installs in a PIM slot.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### CHASSISD_PSD_RELEASE_MASTERSHIP

**System Log Message**  
Backup Routing Engine became master, because JUNOS version of former master did not match RSD master

**Description**  
The chassis process (chassisd) running on the master Routing Engine on a System-Domain routing node relinquished mastership to the backup Routing Engine in the PSD.

**Type**  
Event: This message reports an event, not an error

**Severity**  
notice

**Facility**  
LOG_DAEMON

**Cause**  
The version of the JUNOS software on the master Routing Engine did not match the version on the RSD platform’s master Routing Engine. The version on the backup Routing Engine did match the RSD platform.

### CHASSISD_PSU_ERROR

**System Log Message**  
error-message power supply pem-slot (status bits: Oxstatus-code); status failure

**Description**  
The chassis process (chassisd) detected the indicated error condition for the indicated power supply unit (PSU).

**Type**  
Event: This message reports an event, not an error

**Severity**  
warning

**Facility**  
LOG_DAEMON

**Action**  
For more information, see KB18838.
CHASSISD_PSU_FAN_FAIL

System Log Message  Fan Fail for power supply pem-slot
Description  PSU Fan fail bit is set in the status for the indicated power supply unit (PSU)
Type  Error: An error occurred
Severity  warning
Facility  LOG_DAEMON
Action  For more information, see KB18839.

CHASSISD_PSU_INPUT_BAD

System Log Message  error-message power supply pem-slot (status bits: 0xstatus-code); Input failure
Description  The chassis process (chassisd) detected the input voltage/warning fault condition for the indicated power supply unit (PSU).
Type  Event: This message reports an event, not an error
Severity  warning
Facility  LOG_DAEMON
Action  Check the status of the input connections. For more information, see KB18840.

CHASSISD_PSU_OVERLOAD

System Log Message  Overload condition for power supply pem-slot (status bits: 0xstatus-code);
Description  The indicated power supply unit (PSU) reported an output voltage overload condition.
Type  Event: This message reports an event, not an error
Severity  warning
Facility  LOG_DAEMON
Cause  There might have been excessive load on the PSU.
Action  For more information, see KB18841.

CHASSISD_PSU_TEMPERATURE

System Log Message  Temperature check bit set for power supply pem-slot; airflow might be inadequate
Description  The chassis process (chassisd) detected that the 'temperature check bit' was set in the status bit mask for the indicated power supply unit (PSU).
Type  Event: This message reports an event, not an error
Severity  warning
Facility  LOG_DAEMON
Cause  The PSU might have exceeded its temperature threshold, possibly because the airflow through it was inadequate.
Action  For more information, see KB18842.

CHASSISD_PSU_VOLTAGE
System Log Message  Power supply pem-slot reports problem; check output voltage
Description  The indicated power supply unit (PSU) reported a problem with its output voltage.
Type  Event: This message reports an event, not an error
Severity  warning
Facility  LOG_DAEMON
Cause  There might have been excessive load on the PSU.
Action  For more information, see KB18843.

CHASSISD_RANGE_CHECK
System Log Message  function-name: '0x'value' is invalid value for object-name (out of range)
Description  The indicated value was outside the valid range of values for the indicated object.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative.

CHASSISD_RECONNECT_SUCCESSFUL
System Log Message  Successfully reconnected on soft restart
Description  The chassis process (chassisd) successfully reconnected with each Packet Forwarding Engine after a soft restart.
Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_DAEMON

CHASSISD_RELEASE_MASTERSHIP
System Log Message  Release mastership notification
The chassis process (chassisd) running on the master Routing Engine received a request to release mastership.

CHASSISD_RE_CONSOLE_FE_STORM

System Log Message: Console device encountering framing error storm on Routing Engine routing-engine-slot (possibly a bad console cable)

Description: At least one console device on the Routing Engine has encountered excessive framing errors. This can be indicative of a bad cable connected to the device (especially true in the case of a serial console port.)

CHASSISD_RE_INIT_INVALID_RE_SLOT

System Log Message: re_init: re routing-engine-slot, out of range

Description: The chassis process (chassisd) could not initialize a Routing Engine because the slot number specified for it was invalid.

CHASSISD_RE_OVER_TEMP_CONDITION

System Log Message: Routing Engine routing-engine-slot temperature (temperature C) over threshold degrees C

Description: The temperature of the indicated Routing Engine exceeded the indicated temperature, which is the upper of two thresholds.

Action: Increase cooling in the area around the chassis. For more information, see KB18844.
CHASSISD_RE_OVER_TEMP_SHUTDOWN

**System Log Message**
Routing Engine routing-engine-slot temperature above threshold degrees C for too long;

**action**

**Description**
The chassis process (chassisd) performed the indicated action because the temperature of the indicated Routing Engine exceeded the maximum threshold for more than four minutes. Continued operation at the excessive temperature could damage routing platform components.

**Type**
Error: An error occurred

**Severity**
critical

**Facility**
LOG_DAEMON

**Action**
Increase cooling in the area around the chassis. For more information, see KB18845.

CHASSISD_RE_OVER_TEMP_WARNING

**System Log Message**
Routing Engine routing-engine-slot temperature (temperature C) over threshold degrees C, component will shutdown in duration seconds if condition persists

**Description**
The temperature of the indicated Routing Engine exceeded the indicated temperature, which is the upper of two thresholds. If the temperature does not go below the threshold within four minutes after the chassis process (chassisd) detects this condition, the chassisd process shuts down the indicated component. When this message was logged, the indicated number of seconds remained before shutdown.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Increase cooling in the area around the chassis. For more information, see KB18846.

CHASSISD_RE_WARM_TEMP_CONDITION

**System Log Message**
Routing Engine routing-engine-slot temperature (temperature C) is above warm temperature limit (threshold C)

**Description**
The temperature of the indicated Routing Engine exceeded the indicated temperature, which is the lower of two thresholds.

**Type**
Event: This message reports an event, not an error

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Increase cooling in the area around the chassis.
CHASSISD_ROOT_MOUNT_ERROR

System Log Message: Unable to determine the mount point for root directory: error-message
Description: The chassis process (chassisd) could not determine the mount point for the root file system.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

CHASSISD_RTS_SEQ_ERROR

System Log Message: ifmsg sequence gap expected-value - received-value
Description: The chassis process (chassisd) received a routing socket message out of order.
Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON
Cause: A routing socket message was lost because of excessive load or lack of memory.

CHASSISD_SBOARD_VERSION_MISMATCH

System Log Message: Version mismatch: chassisd message version expected-value fru-name message version received-value local IPC version local-ipc-version remote IPC version remote-ipc-version
Description: The chassis process (chassisd) verifies that it supports the revision level or version of a component (field-replaceable unit, or FRU). The revision level for the indicated FRU was unsupported or otherwise invalid.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: Either a previous software upgrade did not complete successfully, or the chassisd process or FRU did not restart after a successful software upgrade.
Action: Upgrade the software and reboot the routing platform.

CHASSISD_SENSOR_RANGE_NOTICE

System Log Message: fru-name fru-slot temperature is temperature degrees C, which is outside operating range
Description: The temperature sensor on the indicated component (field-replaceable unit, or FRU) reported the indicated temperature, which is outside the acceptable operating range.
Type: Event: This message reports an event, not an error
### CHASSISD_SERIAL_ID

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Some sensors generate erroneous readings when a FRU starts up. When this happens, the chassis process (chassisd) rereads the sensor at a later time.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>Serial ID read error: error-code -- error-message</td>
</tr>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not obtain the Routing Engine's serial number from the kernel because of the indicated error.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_SFMODE_ERROR

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Possible reasons include (a) the requested mode is available only with certain versions of an application-specific integrated circuit (ASIC) (b) not all SFMs are online as required by the requested mode (c) cross-connect mode cannot be configured if an OC-192c Physical Interface Card (PIC) is installed.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>function-name: error-message</td>
</tr>
<tr>
<td>Description</td>
<td>The chassis process could not configure a requested operational mode for a Switching and Forwarding Module (SFM), for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>

### CHASSISD_SF_NOT_ONLINE

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>function-name: SFM sfm-slot not online</td>
</tr>
<tr>
<td>Description</td>
<td>The indicated Switching and Forwarding Module (SFM) was offline.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
</tbody>
</table>

### CHASSISD_SHUTDOWN_NOTICE

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Shutdown reason: reason</td>
</tr>
<tr>
<td>Description</td>
<td></td>
</tr>
</tbody>
</table>
Although the chassis process (chassisd) normally does not exit or shut down except when the Routing Engine reboots, it shut down for the indicated reason.

**Type**  
Event: This message reports an event, not an error

**Severity**  
warning

**Facility**  
LOG_DAEMON

### CHASSISD_SIB_INVALID_SLOT

**System Log Message**  
fru-name in invalid slot

**Description**  
The chassis process (chassisd) detected the presence of the switch interface board (SIB) in an invalid slot. The SIB remains offline.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative. For more information, see KB18848.

### CHASSISD_SIGPIPE

**System Log Message**  
SIGPIPE received

**Description**  
The chassis process (chassisd) received a signal indicating that its attempt to write to a pipe failed because the reader (which could be another process or thread) did not exist.

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
The entity at the other end of the pipe exited or closed the connection.

### CHASSISD_SMB_ERROR

**System Log Message**  
smb_read: fpga download not complete: val return-value, action

**Description**  
The system management bus (SMB) could not download field-programmable gate array (FPGA) information and returned the indicated status code. The chassis process (chassisd) took the indicated action.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### CHASSISD_SMB_INVALID_PS

**System Log Message**  
function-name: invalid power supply status code (0xstatus-code)
The chassis process (chassisd) could not set the status (enabled or disabled) for a power supply, because it received the indicated power supply status code, which is invalid.

**Type**  Error: An error occurred

**Severity**  critical

**Facility**  LOG_DAEMON

**Action**  Contact your technical support representative. For more information, see KB18849.

**CHASSISD_SMB_IOCTL_FAILURE**

**System Log Message**  `function-name': 'operation' ioctl failed on system management bus (address 0xmemory-address, cmd 0xcommand)

**Description**  The indicated ioctl() operation failed at the indicated address on the system management bus (SMB).

**Type**  Error: An error occurred

**Severity**  critical

**Facility**  LOG_DAEMON

**Action**  Contact your technical support representative. For more information, see KB18850.

**CHASSISD_SMB_READ_FAILURE**

**System Log Message**  `function-name': read() failed on system management bus (address 0xmemory-address)

**Description**  A read() operation failed at the indicated address on the system management bus (SMB).

**Type**  Error: An error occurred

**Severity**  critical

**Facility**  LOG_DAEMON

**Action**  Contact your technical support representative. For more information, see KB18851.

**CHASSISD_SNMP_TRAP1**

**System Log Message**  SNMP trap generated: `trap (argument1 value1)

**Description**  The chassisd process (chassisd) generated the indicated simple network management protocol (snmp) trap with the indicated value.

**Type**  Event: This message reports an event, not an error

**Severity**  notice

**Facility**  LOG_DAEMON
CHASSISD_SNMP_TRAP10

System Log Message
SNMP trap generated: trap (argument1 value1, argument2 value2, argument3 value3, argument4 value4, argument5 value5, argument6 value6, argument7 value7, argument8 value8, argument9 value9, argument10 value10)

Description
The chassis process (chassisd) generated a Simple Network Management Protocol (SNMP) trap with the ten indicated argument-value pairs.

Type
Event: This message reports an event, not an error

Severity
Notice

Facility
LOG_DAEMON

CHASSISD_SNMP_TRAP6

System Log Message
SNMP trap generated: trap (argument1 value1, argument2 value2, argument3 value3, argument4 value4, argument5 value5, argument6 value6)

Description
The chassis process (chassisd) generated a Simple Network Management Protocol (SNMP) trap with the six indicated argument-value pairs.

Type
Event: This message reports an event, not an error

Severity
Notice

Facility
LOG_DAEMON

CHASSISD_SNMP_TRAP7

System Log Message
SNMP trap generated: trap (argument1 value1, argument2 value2, argument3 value3, argument4 value4, argument5 value5, argument6 value6, argument7 value7)

Description
The chassis process (chassisd) generated a Simple Network Management Protocol (SNMP) trap with the seven indicated argument-value pairs.

Type
Event: This message reports an event, not an error

Severity
Notice

Facility
LOG_DAEMON

CHASSISD_SPI_IOCTL_FAILURE

System Log Message
function-name: reason 0xaddress, error error-message

Description
The chassis process (chassisd) could not perform the indicated ioctl() operation on the indicated register of the spi device.

Type
Error: An error occurred

Severity
Error

Facility
LOG_DAEMON

Action
Contact your technical support representative.
### CHASSISD_SPMB_RESTART

**System Log Message**  
SPMB slot restarted

**Description**  
The indicated Switch Processor Mezzanine Board (SPMB) restarted.

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_SPMB_RESTART_TIMEOUT

**System Log Message**  
Attempt count to restart SPMB slot timed out; action

**Description**  
The chassis process (chassisd) tried the indicated number of times to bring the indicated Switch Processor Mezzanine Board (SPMB) online. The chassisd process performed the indicated action as a result of the failure.

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### CHASSISD_SSB_FAILOVERS

**System Log Message**  
fru-name failover occurred count times

**Description**  
The indicated packet-switching component or control board failed over to a redundant neighbor the indicated number of times, which exceeds the maximum limit.

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cause</th>
<th>There is probably a system error.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### CHASSISD_STANDALONE_FPC_NOTICE

**System Log Message**  
chassisd running in standalone FPC mode mode

**Description**  
The chassis process (chassisd) was running in the indicated standalone Flexible PIC Concentrator (FPC) mode. This message was logged in case the administrator wants it to run in a different mode.

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
CHASSISD_SYSCTL_ERROR

System Log Message: function-name: sysctl-error error from sysctl-function-name: error-message (errno error-code)

Description: The chassis process (chassisd) received the indicated error from the indicated sysctl() operation.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

CHASSISD_TEMP_HOT_NOTICE

System Log Message: fru-name temperature of temperature degrees C is above limit (threshold degrees)

Description: The temperature of the chassis, or of the indicated component (field-replaceable unit, or FRU), exceeded the lower of two thresholds. The chassis process (chassisd) increased the speed of all functioning fans (and impellers, if applicable) to full speed. If the temperature did not decrease below the threshold within 4 minutes after this message was logged, the chassisd process shut down the routing platform.

Type: Event: This message reports an event, not an error
Severity: error
Facility: LOG_DAEMON
Action: Increase cooling in the area around the chassis.

CHASSISD_TEMP_SENSOR_FAILURE

System Log Message: function-name: unable to read temperature sensor for fru-name

Description: The temperature sensor for the indicated component (field-replaceable unit, or FRU) either did not respond to a request from the chassis process (chassisd) for a temperature reading or sent a value that is outside the normal operating range.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative. For more information, see KB18852.

CHASSISD_TERM_SIGNAL

System Log Message: Received SIG_TERM request, shutting down

Description: The chassis process (chassisd) received the SIGTERM signal, indicating that it should terminate. It began the procedure for clean shutdown and exit, but possibly restarted automatically after exiting.
Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_DAEMON

CHASSISD_TIMER_CLR_ERR
System Log Message: function-name: message
Description: The chassis process (chassisd) could not clear the state of the timer it had set to track the timeout period for an event.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

CHASSISD_TIMER_ERR
System Log Message: Unable to schedule timeout for description
Description: The chassis process (chassisd) could not start a timer to track the timeout period for the indicated event. The seriousness of this error depends on the event.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

CHASSISD_TIMER_VAL_ERR
System Log Message: Null timer ID
Description: The chassis process (chassisd) started a timer to track the timeout period for an event. The timer returned a null identifier, so the chassisd process could not clear the timer.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: For more information, see KB18853.

CHASSISD_UNEXPECTED_EXIT
System Log Message: evMainLoop returned return-value (errno error-code)
Description: The chassis process (chassisd) exited unexpectedly and reported the indicated error.

Type: Error: An error occurred
### CHASSISD_UNEXPECTED_VALUE

**System Log Message**: `function-name: 'value' is invalid value for object-name`

**Description**: The indicated value was specified for the indicated object in a message received by the chassis process (chassisd). The value is invalid for that type of object.

**Type**: Error: An error occurred

**Severity**: Warning

**Facility**: LOG_DAEMON

**Action**: Contact your technical support representative.

### CHASSISD_UNSUPPORTED_FPC

**System Log Message**: FPC with i2C ID of 0x\ i2c-id\ is not supported

**Description**: A Flexible PIC Concentrator (FPC) of the indicated type was installed in the routing platform. The software does not support that FPC type on this platform.

**Type**: Error: An error occurred

**Severity**: Error

**Facility**: LOG_DAEMON

**Action**: Contact your technical support representative.

### CHASSISD_UNSUPPORTED_MODEL

**System Log Message**: Model model unsupported with this version of chassisd

**Description**: The version of the chassis process (chassisd) software that is installed on the routing platform does not support this type of chassis.

**Type**: Error: An error occurred

**Severity**: Warning

**Facility**: LOG_DAEMON

**Action**: Contact your technical support representative.

### CHASSISD_UNSUPPORTED_PIC

**System Log Message**: PIC pic-slot in FPC fpc-slot (type pic-type, version version) is not supported
<table>
<thead>
<tr>
<th>Description</th>
<th>The indicated Physical Interface Card (PIC) is either not supported on this routing platform or is not supported by the installed version of the chassis process (chassisd) software. The chassisd process did not bring the PIC online.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**CHASSISD_UNSUPPORTED_PIC_MODE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Application mode mode is not supported for PIC pic-slot in FPC fpc-slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated Physical Interface Card (PIC) does not support the indicated application mode configured for it.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Check which application modes are supported for the PIC.</td>
</tr>
</tbody>
</table>

**CHASSISD_UNSUPPORTED_SIB**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>SIB with assembly ID assembly-id is not supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) detected the presence of a new Switch Interface Board (SIB) with the indicated assembly ID. The SIB remains offline, because it is not a supported type.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**CHASSISD_VCHASSIS_CONVERT_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: fpc-slot/pic-slot/port conversion timeout; type type-string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) timed out awaiting notification from an fpc that an interface being converted to or from a vc-port was deleted.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
## CHASSISD_VCHASSIS_LICENSE_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Virtual Chassis License not installed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A virtual-chassis operational mode command was executed without a valid virtual chassis license being installed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

## CHASSISD_VERSION_MISMATCH

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Version mismatch: chassisd message version expected-value fru-name fru-slot message version received-value local IPC version local-ipc-version remote IPC version remote-ipc-version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>As a component (field-replaceable unit, or FRU) comes online, the chassis process (chassisd) verifies that the FRU's revision level or version is supported. The revision level of the indicated FRU was unsupported or otherwise invalid.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Either a previous software upgrade did not complete successfully, or the chassisd process or FRU did not restart after a successful software upgrade.</td>
</tr>
<tr>
<td>Action</td>
<td>Upgrade the software and reboot the routing platform.</td>
</tr>
</tbody>
</table>

## CHASSISD_VOLTAGE_READ_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to read voltage from fru-name (group group-id, address address, channel voltage-channel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The chassis process (chassisd) could not read voltage data from the indicated component (field-replaceable unit, or FRU).</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18855.</td>
</tr>
</tbody>
</table>

## CHASSISD_VOLTAGE_SENSOR_INIT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to initialize voltage sensor for fru-name (group group-id, address address)</th>
</tr>
</thead>
</table>
Description: The chassis process (chassisd) could not initialize the voltage sensor for the indicated component (field-replaceable unit, for FRU).

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Action: Contact your technical support representative.
CHAPTER 21

CHASSISM System Log Messages

This chapter describes messages with the CHASSISM prefix. They are generated by the chassis manager process (chassism), which controls hardware components on the routing platform.

CHASSISM_SYSTEM

<table>
<thead>
<tr>
<th>Description</th>
<th>reason: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>A system call made by this process failed.</td>
<td></td>
</tr>
</tbody>
</table>

- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON
- **Cause**: It is possible that the kernel lacked the resources to fulfill the request.
This chapter describes messages with the CONTENT prefix. They are generated by the content filtering process (contentd) which filters certain types of traffic based on the type, file extension, and protocol command. The content filter controls file transfers across the gateway by checking traffic against configured filter lists.

**CONTENT_FILTERING_BLOCKED_MT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content Filtering: argument (profile-name) from source-address is action due to reason</td>
<td>The transaction is blocked due to content filtering setting</td>
<td>Event: This message reports an event, not an error</td>
<td>info</td>
<td>LOG_PFE</td>
<td>The transaction is in content filtering's block list</td>
<td>Check the transaction to make sure it is not a false positive</td>
</tr>
</tbody>
</table>
CHAPTER 23

COSD System Log Messages

This chapter describes messages with the COSD prefix. They are generated by the class-of-service (CoS) process (cosd), which enables the routing platform to provide different levels of service to applications based on packet classifications.

**COSD_AGGR_CONFIG_INVALID**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Error: Cannot have config error-message interface-name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The class-of-service (CoS) process (cosd) did not apply the config on this interface because it was not valid in this case.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>One possible cause is if any Class-of-Service is configured on an interface which is a part of an aggregated interface</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Remove or change the config from/on the interface.</td>
</tr>
</tbody>
</table>

**COSD_CHASSIS_SCHED_MAP_INVALID**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Chassis scheduler map incorrectly applied to interface interface-name: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The class-of-service (CoS) process (cosd) did not apply a chassis scheduler map to the indicated interface, because the configuration used to apply the scheduler map was invalid.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>One possible cause is that the chassis scheduler map is applied to a specific interface. For most interface types, a scheduler map must be applied to all interfaces on the PIC; therefore, a wildcard must be used to specify the interfaces. One exception to this rule is the Gigabit Ethernet IQ PIC.</td>
</tr>
</tbody>
</table>
**Action**  Correct the configuration used to apply the chassis scheduler map to the interface.

**COSD_CLASSIFIER_NO_SUPPORT_LSI**
- **System Log Message**: Cannot support classifier type `classifier-type` on lsi interface `interface-name`
- **Description**: The Differentiated Services code point (DSCP) classifier and the 802.1p classifier are only supported on I-Chip based Flexible PIC Concentrators (FPCs).
- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON
- **Action**: Remove the DSCP or the 802.1p classifier configuration from the routing instance

**COSD_CLASS_8021P_UNSUPPORTED**
- **System Log Message**: ieee-802.1 classifier is not valid on interface `interface-name`
- **Description**: The IEEE 802.1p classifier is not supported on the indicated interface.
- **Type**: Error: An error occurred
- **Severity**: warning
- **Facility**: LOG_DAEMON
- **Action**: Remove the 802.1p classifier configuration from the interface, or configure an interface encapsulation type that supports 802.1p classifiers.

**COSD_CONF_OPEN_FAILURE**
- **System Log Message**: Unable to open: `filename`, using default CoS forwarding classes, do 'commit full' in cli to avoid this message
- **Description**: The class-of-service (CoS) process (cosd) could not read configuration data.
- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: ANY
- **Cause**: All of the following resons: mgd -I fails after upgrade—the file cosd.conf does not exist and is not created because of the mgd -I failure The first commit is 'commit' and not 'commit full'—the file cosd.conf does not commit and is not created automatically [class-of-service forwarding-classes] does not exist—the file cosd.conf does not get exported with plain 'commit'
- **Action**: Do a 'commit full'
COSD_DB_OPEN_FAILED

System Log Message
Unable to open configuration database: error-message(name)

Description
The class-of-service (CoS) process (cosd) could not read configuration data for the indicated reason.

Type
Error: An error occurred

Severity
error

Facility
LOG_DAEMON

Cause
The specified database does not exist

Action
Contact your technical support representative.

COSD_EXACT_RATE_UNSUPP_INTERFACE

System Log Message
Unable to apply scheduler map scheduler-map to interface interface-name because it does not support exact-rate transmission

Description
The class-of-service (CoS) process (cosd) did not apply the indicated scheduler map to the indicated interface, because a scheduler named in the scheduler map specifies exact transmission rate. The interface is housed on a type of PIC that does not support exact transmission rate, such as an IQ2 PIC. In terms of configuration, the 'exact' statement is included in the scheduler definition at the [edit class-of-service schedulers <scheduler-name> transmit-rate (<rate> | percent <percentage>) ] hierarchy level. The scheduler is included in the scheduler map that is applied to the interface.

Type
Error: An error occurred

Severity
error

Facility
LOG_DAEMON

Action
Remove the 'exact' statement from the scheduler in the scheduler map applied to the interface.

COSD_EXACT_RATE_UNSUPP_SESSION

System Log Message
Unable to apply CoS to L2TP session session-id, because scheduler map scheduler-map specifies exact rate transmission

Description
The class-of-service (CoS) process (cosd) did not apply CoS settings to the indicated Layer 2 Tunneling Protocol (L2TP) session, because the scheduler map specified by the RADIUS server for the session is configured for exact transmission rate. Exact transmission rate is not supported for L2TP sessions on the type of PIC that houses the interface, such as an IQ2 PIC. In terms of configuration, the 'exact' statement is included in a scheduler definition at the [edit class-of-service schedulers <scheduler-name> transmit-rate (<rate> | percent <percentage>) ] hierarchy level. The scheduler is included in a scheduler map that is associated with a traffic control profile. The traffic control profile is named
by an attribute in the RADIUS server’s configuration file, which makes the profile apply to the session.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Remove the 'exact' statement from the scheduler in the scheduler map applied to the session.</td>
</tr>
</tbody>
</table>

**COSD_FRAGMENTATION_MAP_CONFLICT**

**System Log Message** Interface compression-device matches wildcard wildcard-interface-name, but fragmentation map fragmentation-map was not applied because interface is compression device for link interface link-interface-name

**Description** The indicated fragmentation map is normally applied to interfaces that match the indicated wildcard. The class-of-service (CoS) process (cosd) did not apply the fragmentation map to the indicated interface, even though it matches the wildcard, because the interface is acting as a compression device for the indicated link interface.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Correct the configuration of the fragmentation map.</td>
</tr>
</tbody>
</table>

**COSD_HIGH_PRIO_QUEUES_INTERFACE**

**System Log Message** Unable to apply scheduler map scheduler-map to interface interface-name, because multiple schedulers in map have "high,""medium-high," or "strict-high" priority

**Description** The class-of-service (CoS) process (cosd) did not apply the indicated scheduler map to the indicated interface, because the map includes more than one scheduler that has high, medium-high, or strict-high priority. For interfaces that are housed by certain PICs, such as an IQ2 PIC, the scheduler map can include only one scheduler that specifies one of those three priority levels. In terms of configuration, the 'priority' statement at the [edit class-of-service schedulers <scheduler-name>] hierarchy level has the value 'high,' 'medium-high,' or 'strict-high' for more than one of the schedulers in the map.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Correct the configuration so that the scheduler map includes only one scheduler with high, medium-high, or strict-high priority.</td>
</tr>
</tbody>
</table>
**COSD_HIGH_Prio_QUEUES_SESSION**

**System Log Message**
Unable to apply CoS to L2TP session `session-id`, because multiple schedulers in scheduler map `scheduler-map` have "high,""medium-high," or "strict-high" priority

**Description**
The class-of-service (CoS) process (cosd) did not apply CoS settings to the indicated Layer 2 Tunneling Protocol (L2TP) session because the scheduler map specified by the RADIUS server for the session includes more than one scheduler that has high, medium-high, or strict-high priority. For interfaces that are housed by certain Physical Interface Cards (PICs), such as an IQ2 PIC, the scheduler map can include only one scheduler that specifies one of those three priority levels. In terms of configuration, the 'priority' statement at the [edit class-of-service schedulers <scheduler-name>] hierarchy level has the value 'high,' 'medium-high,' or 'strict-high' for more than one of the schedulers in the map. The map is associated with a traffic control profile that is named by an attribute in the RADIUS server's configuration file, which makes the profile apply to the session.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_DAEMON

**Action** Correct the configuration so that the scheduler map includes only one scheduler with high, medium-high, or strict-high priority.

**COSD_IFD_OUTPUT_SHAPING_RATE_ERR**

**System Log Message**
Traffic shaping not supported on interface device `interface-name`

**Description**
The class-of-service (CoS) process (cosd) did not apply the shaping rate that is configured for the indicated interface.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_DAEMON

**Cause** Shaping rate is valid only for interfaces housed by IQ and IQ2 PICs, and the interface is on a different type of PIC.

**Action** Remove the shaping rate configuration from the interface.

**COSD_IFD_SHAPER_ERR**

**System Log Message**
port shaper not allowed on interface `interface-name`

**Description**
The non-queuing dense port concentrators (DPCs) did not support the specified shaping rate.

**Type** Error: An error occurred
<table>
<thead>
<tr>
<th>Severity</th>
<th>error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The port shaper was not supported on the non-queuing DPCs.</td>
</tr>
<tr>
<td>Action</td>
<td>Remove the shaping rate configuration from the interface.</td>
</tr>
</tbody>
</table>

### COSD_INTERFACE_NO_MEDIA

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to obtain media information for interface interface-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The message sent by the kernel for the indicated interface did not include required media information.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### COSD_L2TP_COS_NOT_CONFIGURED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to apply CoS to L2TP session session-id because session-aware CoS is not enabled for interface interface-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The class-of-service (CoS) process (cosd) did not apply CoS settings to the indicated Layer 2 Tunneling Protocol (L2TP) session on the indicated interface, because the interface is not configured to support session-aware CoS for L2TP. In terms of configuration, the 'per-session-scheduler' statement is not included at the [edit interfaces &lt;interface-name&gt; unit &lt;logical-unit-number&gt;] hierarchy level.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Include the 'per-session-scheduler' statement in the configuration for the interface.</td>
</tr>
</tbody>
</table>

### COSD_L2TP_COS_NOT_SUPPORTED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to apply CoS to L2TP session session-id on interface interface-name: it does not support CoS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The class-of-service (CoS) process (cosd) did not apply CoS settings to the indicated Layer 2 Tunneling Protocol (L2TP) session on the indicated interface. The interface is configured to support session-aware CoS for L2TP, but is not on a PIC that supports that feature, such as an IQ2 PIC. In terms of configuration, the 'per-session-scheduler' statement is not included at the [edit interfaces &lt;interface-name&gt; unit &lt;logical-unit-number&gt;] hierarchy level.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Include the 'per-session-scheduler' statement in the configuration for the interface.</td>
</tr>
</tbody>
</table>
statement is included at the [edit interfaces <interface-name> unit <logical-unit-number>] hierarchy level.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Action**  Determine whether the interface is on an PIC that supports session-aware CoS; if not, remove the 'per-session-scheduler' statement.

**COSD_L2TP_SHAPING_NOT_CONFIGURED**

**System Log Message**  Unable to apply CoS to L2TP session session-id because session-aware shaping is not enabled for interface interface-name  
**Description**  The class-of-service (CoS) process (cosd) did not apply CoS settings to the indicated Layer 2 Tunneling Protocol (L2TP) session on the indicated interface, because session-aware traffic shaping for L2TP is not configured on the PIC that houses the interface. In terms of configuration, the 'session-shaping' statement is not included at the [edit chassis fpc <slot-number> pic <pic-number> traffic-manager mode] hierarchy level.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Action**  Include the 'session-shaping' statement in the configuration for the PIC.

**COSD_LARGE_DELAY_BUFFER_INVALID**

**System Log Message**  Error for interface interface-name error-message  
**Description**  The class-of-service (CoS) process (cosd) did not apply the large delay buffer setting that is configured for the indicated interface.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Cause**  The interface is not housed on one of the PIC types that support large delay buffer.  
**Action**  Remove the large delay buffer configuration from the interface.

**COSD_MALLOC_FAILED**

**System Log Message**  malloc failed: error-message  

---

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The class-of-service (CoS) process (cosd) could not dynamically allocate memory for the indicated reason.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
A software bug caused a memory leak or the Routing Engine did not have sufficient memory.

**Action**  
Contact your technical support representative. For more information, see KB18862.

**COSD_MPLS_DSCP_CLASS_NO_SUPPORT**

**System Log Message**  
Cannot support MPLS DSCP classifier on ifl interface-name

**Description**  
The MPLS Differentiated Services code point (DSCP) classifier is only supported on I-Chip based Flexible PIC Concentrators (FPCs). It is not supported on Q2 PICs.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Remove the MPLS DSCP classifier configuration from the logical interface.

**COSD_MULTILINK_CLASS_CONFLICT**

**System Log Message**  
Fragmentation map fragmentation-map for wildcard wildcard-interface-name specified multilink class class-name for queue queue-number on interface interface-name, which exceeds configured limit of limit

**Description**  
The indicated fragmentation map is normally applied to interfaces that match the indicated wildcard, and specifies the indicated multilink class setting for queues on those interfaces. The class-of-service (CoS) process (cosd) did not apply the fragmentation map to the indicated interface, even though it matches the wildcard, because the setting in the map exceeds the indicated class limit, which is configured on the interface itself.

**Type**  
Error: An error occurred

**Severity**  
warning

**Facility**  
LOG_DAEMON

**Action**  
Correct the configuration so that the multilink class setting in the fragmentation map does not exceed the class limit for the interface.

**COSD_NULL_INPUT_ARGUMENT**

**System Log Message**  
NULL input argument : error-message
Description: The pointer that was passed to this function was NULL.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Action: Contact your technical support representative.

**COSD_OUT_OF_DEDICATED_QUEUES**

System Log Message: Queue usage count for interface interface-name is at percentage-value percent

Description: The class-of-service (CoS) process (cosd) is running out of dedicated queues.

Type: Event: This message reports an event, not an error

Severity: warning

Facility: LOG_DAEMON

**COSD_RATE_LIMIT_INVALID**

System Log Message: Unable to apply scheduler map scheduler-map to interface interface-name. description.

Description: The class-of-service (CoS) process (cosd) did not apply the indicated scheduler map to the indicated interface, because the number of rate limited queues in the scheduler map exceeded the limit supported by this interface or the priority is not supported. The interface is housed in a type of PIC that does not support the number of configured rate limited queues or the priority is not supported. In terms of configuration, the 'rate-limit' statement is included in the scheduler definition at the [edit class-of-service schedulers <scheduler-name> transmit-rate <rate> | percent <percentage>] hierarchy level. The scheduler is included in the scheduler map applied to the interface.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Action: Either limit the number of rate-limited schedulers in this scheduler map to the allowed maximum for this PIC and interface type or check the allowed priority for rate-limited queues.

**COSD_RATE_LIMIT_NOT_SUPPORTED**

System Log Message: Unable to apply scheduler map scheduler-map to interface interface-name because it does not support rate limiting

Description: The class-of-service (CoS) process (cosd) did not apply the indicated scheduler map to the indicated interface, because a scheduler named in the scheduler map is configured for rate limiting. The interface is housed in a type of PIC that does not support rate limiting. In terms of configuration, the 'rate-limit' statement is included in the scheduler definition at the [edit class-of-service schedulers <scheduler-name> transmit-rate <rate> | percent...
<percentage> hierarchy level. The scheduler is included in the scheduler map applied to the interface.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Remove the 'rate-limit' statement from the scheduler in the scheduler map applied to the interface.</td>
</tr>
</tbody>
</table>

**COSD_REWRITE_RULE_LIMIT_EXCEEDED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Number of rewrite rules applied to interface interface-name exceeds limit (maximum-value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The class-of-service (CoS) process (cosd) determined that the number of rewrite rules applied to the indicated interface exceeds the indicated limit for the interface. In terms of configuration, too many rewrite rules are included at the [edit class-of-service interfaces &lt;interface-name&gt; unit &lt;logical-unit-number&gt; rewrite-rules] hierarchy level.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Action</td>
<td>Remove rewrite rules from the configuration for the interface.</td>
</tr>
</tbody>
</table>

**COSD_RL_IFL_NEEDS_SHAPING**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>&quot;rate-limit&quot; configured in scheduler-map, but ifl interface-name does not have output shaper configured. It will use the ifd-shaping rate/ifd-transmit rate for implementation of rate-limit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The 'rate-limit' statement is configured in one or more schedulers that are part of the indicated scheduler map. In order to apply this scheduler map to the indicated interface, output shaping rate should be configured on the interface. Since no output shaping rate is configured, the transmit rate or shaping rate of the parent interface will be used instead.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Configure output shaping rate for the indicated interface</td>
</tr>
</tbody>
</table>

**COSD_SCHEDULER_MAP_CONFLICT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Forwarding classes &quot;first-forwarding-class&quot; and &quot;second-forwarding-class&quot; in scheduler map scheduler-map both map to queue queue-number</th>
</tr>
</thead>
</table>

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<table>
<thead>
<tr>
<th>Description</th>
<th>Both of the indicated forwarding classes, which are defined in the indicated scheduler map, map to the same indicated queue. The double mapping is invalid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Map only one forwarding class to the queue.</td>
</tr>
</tbody>
</table>

**COSD_SCHED_AVG_CONST_UNSUPPORTED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Averaging constant not supported on interface interface-name. Value set in scheduler-map scheduler-map (scheduler name) will be ignored.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Configuring averaging constant is not supported on the indicated interface. Value set in the indicated scheduler will be ignored.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Remove the averaging-constant configuration from the indicated scheduler.</td>
</tr>
</tbody>
</table>

**COSD_SCHED_MAP_GROUP_CONFLICT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Interface interface-name cannot be bound to scheduler-map scheduler-map. It will be bound to default scheduler-map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Interfaces belonging to a group cannot be bound to different scheduler maps. They will be bound to the default scheduler map.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Map only one scheduler map to all the interfaces of a group.</td>
</tr>
</tbody>
</table>

**COSD_SHAPER_GROUP_CONFLICT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Interface interface-name cannot be bound to configured shaping-rate. It will be bound to default rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Interfaces belonging to a group cannot be bound to different shaping rates. They will be bound to the default shaping rate.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
</tbody>
</table>
Facility LOG_DAEMON
Action Map only one shaping rate to all interfaces of a group.

**COSD_STREAM_IFD_CREATE_FAILURE**

System Log Message Unable to create special master interface device for *interface-name*
Description The class-of-service (CoS) process (cosd) could not create the indicated internal interface device, which it needs for application of a chassis scheduler map.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause An internal software failure occurred.
Action Contact your technical support representative.

**COSD_TIMER_ERROR**

System Log Message Unable to set retry timer for rtsock write operation: *error-message*
Description The class-of-service (CoS) process (cosd) used a routine from the rtsock library to write to the kernel, but the kernel did not accept the request. The cosd process could not set the retry timer for the request, for the indicated reason.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause An internal software failure occurred.
Action Contact your technical support representative.

**COSD_TRICOLOR_ALWAYS_ON**

System Log Message tri-color is always enabled in this platform. There is no need to explicitly set it.
Description Tri-color marking is always enabled on this platform. There is no need to explicitly set it.
Type Error: An error occurred
Severity warning
Facility LOG_DAEMON
Action Remove the ‘tri-color’ configuration statement
### COSD_TRICOLOR_NOT_SUPPORTED

**System Log Message**
Unable to apply scheduler scheduler-map to interface interface-name, because it does not support tricolor marking

**Description**
The class-of-service (CoS) process (cosd) did not apply the indicated scheduler map to the indicated interface, because a scheduler included in the map specifies a packet loss priority (PLP) that is supported only with tricolor marking (TCM). The interface does not support TCM, either because TCM is not enabled or the interface is on a router that does not support TCM. In terms of configuration, the value 'medium-high' or 'medium-low' is specified for the 'loss-priority' statement in a scheduler definition at the [edit class-of-service schedulers <scheduler-name> drop-profile-map] hierarchy level. The scheduler is included in the scheduler map applied to the interface, but the 'tri-color' statement is either not included at the [edit class-of-service] hierarchy level, or is not supported.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Change the value of the 'loss-priority' statement in the scheduler or include the 'tri-color' statement to enable TCM on the router.

### COSD_TX_QUEUE_RATES_TOO_HIGH

**System Log Message**
Unable to apply scheduler map scheduler-map to interface interface-name: sum of scheduler transmission rates exceeds interface shaping or transmission rate

**Description**
The class-of-service (CoS) process (cosd) did not apply the indicated scheduler map to the indicated interface, because the sum of the queue transmission rates defined in the schedulers in the scheduler map exceeds the shaping or transmission rate for the interface. In terms of configuration, the 'transmit-rate' statement is specified for each scheduler at the [edit class-of-service schedulers <scheduler-name>] hierarchy level. The sum of the configured transmission rates exceeds the transmission or shaping rate of the interface.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Decrease the value of one or more 'transmit-rate' statements so that the sum is less than the interface transmission or shaping rate.

### COSD_UNKNOWN_CLASSIFIER

**System Log Message**
classifier type classifier-type is invalid

**Description**
The class-of-service (CoS) process (cosd) did not recognize the indicated classifier type from the rtsock library.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### COSD_UNKNOWN_REWRITE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>rtsock rewrite type type is invalid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The class-of-service (CoS) process (cosd) did not recognize the indicated rewrite type from the rtsock library.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### COSD_UNKNOWN_TRANSLATION_TABLE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>rtsock translation table type translation-table-type is invalid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The class-of-service (CoS) process (cosd) did not recognize the indicated translation table type from the rtsock library.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB18866.</td>
</tr>
</tbody>
</table>
CHAPTER 24

DCBX System Log Messages

This chapter describes messages with the **DCBX** prefix. They are generated by the interface process (lldpd), which is a discovery and capability exchange protocol to discover peers and exchange information.

### DCBX_PFC_DISABLED

**System Log Message**  
`IF interface-name`: PFC is getting disabled

**Description**  
PFC is getting disabled through DCBX.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
LOG_DAEMON

**Cause**  
The DCBX PFC parameters negotiation is not successful.

### DCBX_PFC_ENABLED

**System Log Message**  
`IF interface-name`: PFC is getting enabled

**Description**  
PFC is getting enabled through DCBX.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
LOG_DAEMON

**Cause**  
The DCBX PFC parameters negotiation is successful.

### DCBX_VERSION

**System Log Message**  
`IF interface-name`: DCBX TLV version 1.0 received

**Description**  
Ignoring received Data Center Bridging Protocol (DCBX) packet due to old version 1.0

**Type**  
Error: An error occurred

**Severity**  
info

**Facility**  
LOG_DAEMON
**Cause**  The software on the Host Bus Adapter (HBA) is not up-to-date
This chapter describes messages with the **DCD** prefix. They are generated by the interface process (dcd), which controls the physical interface devices and logical interfaces in the routing platform.

### DCD_AE_CONFIG_WARNING

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>interface-name: AE is not supported in OSE mode for pic-type PIC type</td>
<td>Aggregated Ethernet cannot be configured on a Cuervo PIC that is not explicitly configured for linerate mode.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Set this PIC to linerate mode, or remove the Aggregated Ethernet configuration for the Cuervo link.</td>
</tr>
</tbody>
</table>

### DCD_GRE_CONFIG_INVALID

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Either tunnel key or clear-dont-fragment-bit must be configured for this GRE tunnel (interface-name), to enable post fragmentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This interface needs either the tunnel key or the clear-dont-fragment-bit to be configured along with allow-fragmentation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Configure either the tunnel key or clear-dont-fragment-bit for this tunnel</td>
</tr>
</tbody>
</table>

### DCD_MALLOC_FAILED_INIT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Memory allocation failed during initialization for configuration load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The interface process (dcd) could not dynamically allocate memory in preparation for loading a configuration.</td>
</tr>
</tbody>
</table>

---

Copyright © 2011, Juniper Networks, Inc.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>A software bug caused a memory leak, or the routing platform had insufficient memory.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**DCD_PARSE_CFG_WARNING**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>configuration-statement : warning-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The interface-control process (dcd) found a discrepant configuration</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>This is a warning message and the current configuration has a few discrepancies to be addressed.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**DCD_PARSE_EMERGENCY**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>dcd_config: errors while parsing configuration file</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The interface process (dcd) encountered an unhandled internal state while parsing the configuration database.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>There might be a bug in the dcd process' parser.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**DCD_PARSE_ERROR_CLOCK**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>PIC housing interface interface-name does not support clocking as configured</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The 'clocking' statement is included at the [edit interfaces] hierarchy level for the indicated interface, but is not supported by the 10-Gigabit Ethernet IQ2 PIC.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------</td>
</tr>
<tr>
<td>Action</td>
<td>Remove the 'clocking' statement from the configuration for the interface.</td>
</tr>
</tbody>
</table>

**DCD_PARSE_ERROR_HIER_SCHEDULER**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>interface-name: PIC or encapsulation type does not support 'hierarchical-scheduler' statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The 'hierarchical-scheduler' statement is included at the [edit interfaces] hierarchy level for the indicated interface, but is not supported either by the PIC or the configured type of encapsulation.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Remove the 'hierarchical-scheduler' statement from the configuration for the interface.</td>
</tr>
</tbody>
</table>

**DCD_PARSE_ERROR_IFLSET**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Interface interface-name does not support 'interface-set' statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The 'interface-set' statement is included at the [edit interfaces] hierarchy level for the indicated interface, but is not supported by the interface.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Remove the 'interface-set' statement from the configuration for the interface.</td>
</tr>
</tbody>
</table>

**DCD_PARSE_ERROR_MAX_HIER_LEVELS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>interface-name: PIC or encapsulation type does not support 'maximum-hierarchy-levels' statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The 'hierarchical-scheduler maximum-hierarchy-levels' statement is included at the [edit interfaces] hierarchy level for the indicated interface, but is not supported either by the PIC or the configured type of encapsulation.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Remove the 'hierarchical-scheduler maximum-hierarchy-levels' statement from the configuration for the interface.</td>
</tr>
</tbody>
</table>
DCD_PARSE_ERROR_SCHEDULER

System Log Message  interface-name: PIC or encapsulation type does not support 'per-unit-scheduler' or 'shared-scheduler' statement

Description  The 'per-unit-scheduler' or 'shared-scheduler' statement is included at the [edit interfaces] hierarchy level for the indicated interface, but is not supported either by the PIC or the configured type of encapsulation.

Type  Error: An error occurred
Severity  warning
Facility  LOG_DAEMON
Action  Remove the 'per-unit-scheduler' or 'shared-scheduler' statement from the configuration for the interface.

DCD_PARSE_ERROR_SCHEDULER_LIMIT

System Log Message  interface-name: exceeds the allowed limit (maximum-value) of 'per-unit-scheduler' interface statement for PIC=pic-slot on FPC=fpc-slot

Description  The 'per-unit-scheduler' statement is enabled on more interfaces than what this PIC would support.

Type  Error: An error occurred
Severity  warning
Facility  LOG_DAEMON
Action  Remove the 'per-unit-scheduler' statement from the configuration for the interface.

DCD_PARSE_ERROR_VLAN_TAGGING

System Log Message  interface-name: PIC type does not support flexible-vlan-tagging statement

Description  The 'flexible-vlan-tagging' statement is included at the [edit interfaces] hierarchy level for the indicated interface, but is not supported by the PIC that houses the interface.

Type  Error: An error occurred
Severity  warning
Facility  LOG_DAEMON
Action  Remove the 'flexible-vlan-tagging' statement from the configuration for the interface.

DCD_PARSE_MINI_EMERGENCY

System Log Message  dcd_mini_config: errors while parsing configuration overlay

Description  The interface process (dcd) encountered an unhandled internal state during interface parsing.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: There might be a bug in the dcd process' parser.
Action: Contact your technical support representative. For more information, see KB18870.

**DCD_PARSE_STATE_EMERGENCY**

System Log Message: An unhandled state was encountered during interface parsing
Description: The interface process (dcd) encountered an unhandled internal state during interface parsing.
Type: Error: An error occurred
Severity: emergency
Facility: LOG_DAEMON
Cause: There might be a bug in the dcd process' parser.
Action: Contact your technical support representative. For more information, see KB18870.

**DCD_PARSE_WARN_INCOMPATIBLE_CFG**

System Log Message: configuration-statement: Incompatible configuration detected: warning-message
Description: The interface process (dcd) found a configuration that will not be supported in future releases.
Type: Error: An error occurred
Severity: warning
Facility: ANY
Cause: This is a warning and the configuration will not be supported in future releases.
Action: Contact your technical support representative.
This chapter describes messages with the **DDOS** prefix. They are generated by the distributed denial-of-service attack (DDoS), which is a denial-of-service (DoS) attack originating from multiple source addresses.

### DDOS_PROTOCOL_VIOLATION_CLEAR

**System Log Message**

Protocol `protocol-name` has returned to normal. Violated at `source-name` for `repeat-count` times, from `time-first-detected` to `time-last-detected`.

**Description**
The ddos system detected that the incoming traffic for a violated control protocol returned to normal.

**Type**
Event: This message reports an event, not an error

**Severity**
warning

**Facility**
LOG_DAEMON

**Action**
Check the network configuration.

### DDOS_PROTOCOL_VIOLATION_SET

**System Log Message**

Protocol `protocol-name` is violated at `source-name` for `repeat-count` times, started at `time-first-detected`, last seen at `time-last-detected`.

**Description**
The ddos system detected that the incoming traffic for a control protocol exceeded the configured bandwidth. This could be a ddos attack.

**Type**
Event: This message reports an event, not an error

**Severity**
warning

**Facility**
LOG_DAEMON

**Action**
Check the network configuration and shut down the problem source.

### DDOS_RTSOCK_FAILURE

**System Log Message**

Failed to `action argument`, error=`error-code`.

**Description**
The ddos system process (jddosd) experienced the indicated error with a routing socket.
<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>
This chapter describes messages with the **DFCD** prefix. They are generated by the dynamic flow control process (dfcd), which monitors packet flows using dynamically alterable filtering criteria.

### DFCD_FTAP_PIC_UNSUPPORTED

**System Log Message**
PIC housing interface **interface-name** does not support flow-tap service

**Description**
The PIC that houses the indicated interface does not support flow-tap service.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

### DFCD_GENCFG_MALLOC_FAILED

**System Log Message**
GENCFG mem alloc failed !!!

**Description**
The dynamic flow capture process (dfcd) could not allocate memory for gencfg message.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
For more information, see KB18874.

### DFCD_GENCFG_WRITE_FAILED

**System Log Message**
GENCFG write failed for Reason: error-message (error-code)

**Description**
The dynamic flow capture process (dfcd) could not send gencfg message, for the indicated reason.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON
### DFCD_LINH_MALLOC_FAILED

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>GENCFG mem alloc failed !!!</td>
</tr>
<tr>
<td>Description</td>
<td>The dynamic flow capture process (dfcd) could not allocate memory for linh message.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see <a href="#">KB18875</a></td>
</tr>
</tbody>
</table>

### DFCD_LI_NEXT_HOP_ADD_FAILED

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Unable to add li next hop for subscriber interface: <em>error-message</em> (<em>error-code</em>)</td>
</tr>
<tr>
<td>Description</td>
<td>The dynamic flow capture process (dfcd) could not add a subscriber li next hop, for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### DFCD_NEXT_HOP_ADD_FAILED

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Unable to add service next hop: <em>error-message</em> (<em>error-code</em>)</td>
</tr>
<tr>
<td>Description</td>
<td>The dynamic flow capture process (dfcd) could not add a service next hop, for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### DFCD_NEXT_HOP_DELETE_FAILED

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Unable to delete service next hop: <em>error-message</em> (<em>error-code</em>)</td>
</tr>
<tr>
<td>Description</td>
<td>The dynamic flow capture process (dfcd) could not delete a service next hop, for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
DFCD_SAMPLE_CLASS_ADD_FAILED

System Log Message: Unable to add sample class: error-message (error-code)

Description: The dynamic flow capture process (dfcd) could not add a sample class, for the indicated reason.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

DFCD_SAMPLE_CLASS_DELETE_FAILED

System Log Message: Unable to delete sample class: error-message (error-code)

Description: The dynamic flow capture process (dfcd) could not delete a sample class, for the indicated reason.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON
CHAPTER 28

DFWD System Log Messages

This chapter describes messages with the DFWD prefix. They are generated by the firewall process (dfwd), which manages compilation and downloading of Junos firewall filters.

**DFWD_MALLOC_FAILED_INIT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Memory allocation failed during initialization for configuration load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The firewall process (dfwd) could not dynamically allocate memory in preparation for loading a configuration.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>A software bug caused a memory leak, or the routing platform had insufficient memory.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**DFWD_PARSE_FILTER_EMERGENCY**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>dfwd encountered errors while parsing filter index file</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The firewall process (dfwd) encountered an unhandled internal state while parsing a filter index file.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>There might be a bug in the parser.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**DFWD_PARSE_STATE_EMERGENCY**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>dfwd encountered unhandled state while parsing interface</th>
</tr>
</thead>
</table>
The firewall process (dfwd) encountered an unhandled internal state while parsing an interface.

Type: Error: An error occurred
Severity: emergency
Facility: LOG_DAEMON
Cause: There might be a bug in the parser.
Action: Contact your technical support representative. For more information, see KB18879.

**DFWD_POLICER_LIMIT_EXCEEDED**

System Log Message: Number of interface policers configured is exceeding maximum allowed `total-count`.

Description: The firewall process (dfwd) detected that number of interface policers configured is exceeding maximum allowed.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Reduce the number of interface policers to within allowed limit.
DH System Log Messages

This chapter describes messages with the DH prefix. They are generated by the Dynamic Host Configuration Protocol (DHCP) server process (dhcpd) for J Series Services Routers, which automatically allocates network IP addresses and delivers configuration settings to client hosts in a Transmission Control Protocol (TCP)/IP network.

**DH_SVC_AUTHENTICATE_LICENSE**

**System Log Message**
Authentication failed due to license error. Total license failures count

**Description**
The Dynamic Host Configuration Protocol (DHCP) services process (dhcp-service) failed to authenticate the clients because there were no licenses or an insufficient number of licenses. The indicated number of license failures occurred and the clients were denied access and configuration.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Add or update license for authentication

**DH_SVC_BIND_FAILURE**

**System Log Message**
bind() to port port failed: error-message

**Description**
The Dynamic Host Configuration Protocol (DHCP) services process (dhcp-service) received the indicated error when it tried to bind a socket to the indicated local port.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Contact your technical support representative.

**DH_SVC_LOGIN_FAILURE**

**System Log Message**
DHCP failure-type-authentication failure for DHCP application client SDB session client-session-id on incoming interface interface-name

Copyright © 2011, Juniper Networks, Inc.
Description: The Dynamic Host Configuration Protocol (DHCP) services process (dhcp-service) could not log the client in with the indicated application and the indicated session ID on the indicated interface (interface name) due to the indicated failure (pre-authentication or post-authentication failure).

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_DAEMON

Action: Contact your technical support representative.

**DH_SVC_RECVMSG_FAILURE**

**System Log Message:** Exiting due to too many recvmsg() failures

**Description:** The Dynamic Host Configuration Protocol (DHCP) services process (dhcp-service) could not receive data from the network, which it needs to do during normal operation.

**Type:** Error: An error occurred

**Severity:** error

**Facility:** LOG_DAEMON

**Action:** Contact your technical support representative.

**DH_SVC_RTSOCK_FAILURE**

**System Log Message:** Error with rtsock: error-message

**Description:** The Dynamic Host Configuration Protocol (DHCP) services process (dhcp-service) experienced the indicated error with a routing socket.

**Type:** Error: An error occurred

**Severity:** info

**Facility:** LOG_DAEMON

**Cause:** An internal software failure occurred.

**Action:** Contact your technical support representative.

**DH_SVC_SENDMSG_FAILURE**

**System Log Message:** sendmsg() from source-address to port destination-port at destination-address via interface interface-name and routing instance routing-instance failed: error-message

**Description:** The Dynamic Host Configuration Protocol (DHCP) services process (dhcp-service) could not send data from the indicated source (address, interface, and routing instance) to the indicated destination (port and address), which it needs to do during normal operation.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**DH_SVC_SENDMSG_NOINT_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>sendmsg() from source-address to port destination-port at destination-address via routing instance routing-instance failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Dynamic Host Configuration Protocol (DHCP) services process (dhcp-service) could not send data from the indicated source (address and routing instance) to the indicated destination (port and address), which it needs to do during normal operation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**DH_SVC_SETSOCKOPT_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>setsockopt(socket-option) failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Dynamic Host Configuration Protocol (DHCP) services process (dhcp-service) could not set the indicated socket option.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see <a href="#">KB18883</a>.</td>
</tr>
</tbody>
</table>

**DH_SVC_SOCKET_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>socket(arguments) failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Dynamic Host Configuration Protocol (DHCP) services process (dhcp-service) could not create a socket.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see <a href="#">KB18884</a>.</td>
</tr>
</tbody>
</table>
CHAPTER 30

DHCPD System Log Messages

This chapter describes messages with the DHCPD prefix. They are generated by the Dynamic Host Configuration Protocol (DHCP) server process (dhcpd) for J Series Services Routers, which automatically allocates network IP addresses and delivers configuration settings to client hosts in a Transmission Control Protocol (TCP)/IP network.

**DHCPD_BIND_FAILURE**

*System Log Message*  
bind() to port port failed: error-message

*Description*  
The Dynamic Host Configuration Protocol server process (dhcpd) received the indicated error when it tried to bind a socket to the indicated local port.

*Type*  
Error: An error occurred

*Severity*  
error

*Facility*  
LOG_AUTH

*Action*  
Contact your technical support representative.

**DHCPD_DEGRADED_MODE**

*System Log Message*  
Running in degraded mode because of reason: error-message

*Description*  
The Dynamic Host Configuration Protocol server process (dhcpd) began running in degraded mode because the indicated unrecoverable error occurred.

*Type*  
Error: An error occurred

*Severity*  
error

*Facility*  
LOG_AUTH

*Cause*  
There might be a problem with the lease cache directory used to store persistent lease information.

*Action*  
Contact your technical support representative.

**DHCPD_MEMORY_ALLOCATION_FAILURE**

*System Log Message*  
Unable to allocate memory for object-name: error-message
<table>
<thead>
<tr>
<th>Description</th>
<th>The Dynamic Host Configuration Protocol server process (dhcpd) could not allocate memory from the heap for the indicated object.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**DHCPD_OVERLAY_CONFIG_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to open overlay configuration: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Dynamic Host Configuration Protocol server process (dhcpd) could not open an overlay configuration file for parsing.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**DHCPD_OVERLAYPARSE_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to parse overlay configuration because of count syntax errors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Dynamic Host Configuration Protocol server process (dhcpd) could not parse its overlay configuration because the configuration contained the indicated number of syntax errors.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**DHCPD_RECVMSG_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Exiting due to too many recvmsg() failures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Dynamic Host Configuration Protocol server process (dhcpd) could not receive data from the network, which it needs to do during normal operation.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
</tbody>
</table>
### DHCPD_RTSOCK_FAILURE

<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_AUTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>Error with rtsock: error-message</td>
</tr>
<tr>
<td>Description</td>
<td>The Dynamic Host Configuration Protocol server process (dhcpd) experienced the indicated error with a routing socket.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### DHCPD_SENDMSG_FAILURE

<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_AUTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>sendmsg() from source-address to port destination-port at destination-address via interface interface-name and routing instance routing-instance failed: error-message</td>
</tr>
<tr>
<td>Description</td>
<td>The Dynamic Host Configuration Protocol server process (dhcpd) could not send data from the indicated source (address, interface, and routing instance) to the indicated destination (port and address), which it needs to do during normal operation.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### DHCPD_SENDMSG_NOINT_FAILURE

<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_AUTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>sendmsg() from source-address to port destination-port at destination-address via routing instance routing-instance failed: error-message</td>
</tr>
<tr>
<td>Description</td>
<td>The Dynamic Host Configuration Protocol server process (dhcpd) could not send data from the indicated source (address and routing instance) to the indicated destination (port and address), which it needs to do during normal operation.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>
**DHCPD_SETSOCKOPT_FAILURE**

**System Log Message**
setsockopt(socket-option) failed: error-message

**Description**
The Dynamic Host Configuration Protocol server process (dhcpd) could not set the indicated socket option.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_AUTH

**Action**
Contact your technical support representative.

**DHCPD_SOCKET_FAILURE**

**System Log Message**
socket(arguments) failed: error-message

**Description**
The Dynamic Host Configuration Protocol server process (dhcpd) could not create a socket.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_AUTH

**Action**
Contact your technical support representative.
CHAPTER 31

DOT1XD System Log Messages

This chapter describes messages with the DOT1XD prefix. They are generated by the authentication processes such as 802.1X, MAC RADIUS, or captive portal, which control access to a network through a Juniper Networks EX Series Ethernet Switch.

DOT1XD_AUTH_SESSION_DELETED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>user-type User username session with MacAddress mac-address interface interface-name vlan vlan-name deleted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Authenticated session has been deleted.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

DOT1XD_RCVD_EAPLOGOFF_AUTHNTCTNG

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>user-type User username EAP Logoff received from MacAddress mac-address interface interface-name vlan vlan-name while authenticating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>EAP Log off received while authenticating.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

DOT1XD_RCVD_EAPLOGOFF_AUTHNTICTD

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>user-type User username EAP Logoff received from MacAddress mac-address interface interface-name vlan vlan-name while authenticated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>EAP Log off received while authenticated.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
**DOT1XD_RCVD_EAPLOGOF_CONNECTNG**

**System Log Message**  
user-type User username EAP Logoff received from MacAddress mac-address interface interface-name vlan vlan-name while connecting.

**Description**  
EAP Log off received while connecting.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
LOG_DAEMON

**DOT1XD_USR_ACCESS_DENIED**

**System Log Message**  
user-type User username authentication failed in MacAddress mac-address interface interface-name vlan vlan-name

**Description**  
User is unauthenticated and denied access on port.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
LOG_DAEMON

**DOT1XD_USR_AHNTICTD_GST_VLAN**

**System Log Message**  
user-type User username non responsive host mac-address on interface interface-name moved to guest vlan vlan-name

**Description**  
User has been authenticated on guest vlan if it is configured and authentication using mac-radius for a non-responsive client failed.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
LOG_DAEMON

**DOT1XD_USR_AUTHENTICATED**

**System Log Message**  
user-type User username logged in MacAddress mac-address interface interface-name vlan vlan-name

**Description**  
User is authenticated and allowed access on port.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
LOG_DAEMON

**DOT1XD_USR_OFF_DUE_TO_MAC_AGNG**

**System Log Message**  
user-type User username cleared in MacAddress mac-address interface interface-name vlan vlan-name due to ether-table ageout
<table>
<thead>
<tr>
<th>Description</th>
<th>User is unauthenticated when mac aging timer expires.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### DOT1XD_USR_ON_SRVR_FAIL_VLAN

<table>
<thead>
<tr>
<th>Description</th>
<th>User gets authenticated on server fail vlan if it is configured and when radius server is not reachable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### DOT1XD_USR_ON_SRVR_REJECT_VLAN

<table>
<thead>
<tr>
<th>Description</th>
<th>User gets authenticated on server reject vlan if it is configured and when radius server rejects the access request.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### DOT1XD_USR_SESSION_DISCONNECTED

<table>
<thead>
<tr>
<th>Description</th>
<th>User session has been disconnected.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### DOT1XD_USR_SESSION_HELD

<table>
<thead>
<tr>
<th>Description</th>
<th>User session has been held and dot1x shall retry authentication after held timer expires.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
Severity: info
Facility: LOG_DAEMON

DOT1XD_USR_UNATHNTCTD_CLI_CLRD

**System Log Message**: Clearing the interface *interface-name* due to user action

**Description**: User is unauthenticated due to cli clearing.

**Type**: Event: This message reports an event, not an error

**Severity**: info
**Facility**: LOG_DAEMON
This chapter describes messages with the **DYNAMIC** prefix. They are generated by the Access Manager client which is used in the dynamic VPN feature. The dynamic VPN feature further simplifies remote access by enabling users to establish Internet Protocol Security (IPsec) VPN tunnels without having to manually configure VPN settings on their PCs or laptops. Instead, authenticated users can simply download the Access Manager Web client to their computers. This Layer 3 remote access client uses client-side configuration settings that it receives from the server to create and manage a secure end-to-site VPN tunnel to the server.

### DYNAMIC_VPN_AUTH_CONNECT_FAIL

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to connect to fwauthd on socket file-descriptor: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The connection manager authentication process could not connect to fwauthd daemon on the indicated socket.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

### DYNAMIC_VPN_AUTH_FAIL

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Username/password and token are username</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The connection manager authentication process was unable to authenticate the indicated user/token</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

### DYNAMIC_VPN_AUTH_INVALID

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>type username is invalid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The connection manager authentication failed due to invalid user/token</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
</tbody>
</table>
Severity error
Facility LOG_AUTH

**DYNAMIC_VPN_AUTH_MUL_CONN**

**System Log Message** Connection exists for *type username* at *client-name client-id*

**Description** Connection already existed for this user

**Type** Event: This message reports an event, not an error

**Severity** error

**Facility** LOG_AUTH

**DYNAMIC_VPN_AUTH_NO_CONFIG**

**System Log Message** Authentication failed for *type username* due to unavailable client config

**Description** The connection manager authentication process was unable to obtain client config for the indicated user/token

**Type** Event: This message reports an event, not an error

**Severity** error

**Facility** LOG_AUTH

**DYNAMIC_VPN_AUTH_NO_LICENSE**

**System Log Message** Authentication failed for *type username* due to unavailable license

**Description** The connection manager authentication process was unable to obtain license for the indicated user/token

**Type** Event: This message reports an event, not an error

**Severity** error

**Facility** LOG_AUTH

**DYNAMIC_VPN_AUTH_OK**

**System Log Message** *type username* with *client-name client-id* authenticated successfully.

**Description** The connection manager authentication process was able to authenticate the indicated user/token successfully

**Type** Event: This message reports an event, not an error

**Severity** notice

**Facility** LOG_AUTH

**DYNAMIC_VPN_CLIENT_CONFIG_WRITE**

**System Log Message** Client VPN config is saved in file *filename* for user *username*
### Connection manager writes client VPN config to file before sending to client.

**Type:** Event: This message reports an event, not an error  
**Severity:** notice  
**Facility:** LOG_AUTH  

### DYNAMIC_VPN_CONN_DEL_NOTIFY

**System Log Message:** Connection manager receives SA deleted notification for ike-id gateway-id  
**Description:** Connection manager receives SA deleted notification from IKED.  
**Type:** Event: This message reports an event, not an error  
**Severity:** notice  
**Facility:** LOG_AUTH  

### DYNAMIC_VPN_CONN_DEL_REQUEST

**System Log Message:** Connection manager receives delete request from the client for user username ike-id gateway-id  
**Description:** Connection manager receives connection delete request from the client.  
**Type:** Event: This message reports an event, not an error  
**Severity:** notice  
**Facility:** LOG_AUTH  

### DYNAMIC_VPN_CONN_EST_NOTIFY

**System Log Message:** Connection manager receives SA established notification for ike-id gateway-id  
**Description:** Connection manager receives SA established notification from IKED.  
**Type:** Event: This message reports an event, not an error  
**Severity:** notice  
**Facility:** LOG_AUTH  

### DYNAMIC_VPN_INIT_SUCCESSFUL

**System Log Message:** Connection manager initialization succeeded.  
**Description:** Connection manager is initialized successfully.  
**Type:** Event: This message reports an event, not an error  
**Severity:** notice  
**Facility:** LOG_AUTH
## DYNAMIC_VPN_LICENSE_ASSIGNED

**System Log Message**
Dynamic VPN license granted, license limit free, count overdrafted, current-value used

**Description**
The Access Manager client has successfully acquired a license and is permitted to connect to the device.

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
LOG_FIREWALL

## DYNAMIC_VPN_LICENSE_CHECK_FAILED

**System Log Message**
Dynamic VPN license check failed for user username

**Description**
No Access Manager license is available at the moment.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_AUTH

## DYNAMIC_VPN_LICENSE_CHECK_OK

**System Log Message**
Dynamic VPN license check succeed for user username

**Description**
Preliminary check on Access Manager license is successful for the given user.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_AUTH

## DYNAMIC_VPN_LICENSE_EXHAUSTED

**System Log Message**
Dynamic VPN license denied, no available license

**Description**
The device is out of Access Manager licenses. Connection request from the Access Manager client is denied.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_FIREWALL

## DYNAMIC_VPN_LICENSE_FREED

**System Log Message**
Dynamic VPN license returned, license limit free, count overdrafted, current-value used

**Description**
The Access Manager client has disconnected and returned its license.

**Type**
Event: This message reports an event, not an error
Severity info
Facility LOG_FIREWALL

**DYNAMIC_VPN_LICENSE_FREE_FAILED**

**System Log Message** Server failed to free an Access Manager for *username*

**Description** The Access Manager client attempt to return a license has failed.

**Type** Event: This message reports an event, not an error

**Severity** error

**Facility** LOG_AUTH

**DYNAMIC_VPN_LICENSE_FREE_OK**

**System Log Message** Server successfully freed an Access Manager license for *username*

**Description** The Access Manager client successfully returned a license.

**Type** Event: This message reports an event, not an error

**Severity** notice

**Facility** LOG_AUTH

**DYNAMIC_VPN_LICENSE_GET_FAILED**

**System Log Message** Server failed to get an Access Manager license for *username*

**Description** No Access Manager license is available at the moment.

**Type** Event: This message reports an event, not an error

**Severity** error

**Facility** LOG_AUTH

**DYNAMIC_VPN_LICENSE_GET_OK**

**System Log Message** Server successfully got an Access Manager license for *username*

**Description** The Access Manager client successfully obtained a license.

**Type** Event: This message reports an event, not an error

**Severity** notice

**Facility** LOG_AUTH

**DYNAMIC_VPN_LICENSE_INSTALLED**

**System Log Message** Dynamic VPN license *name* installed, license *limit* total, *count* free

**Description** An Access Manager license was installed successfully on this device.

**Type** Event: This message reports an event, not an error
<table>
<thead>
<tr>
<th>Severity</th>
<th>info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_FIREWALL</td>
</tr>
</tbody>
</table>

**DYNAMIC_VPN_LICENSE_REQUIRED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Dynamic VPN license denied, no license installed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Requested operation requires an Access Manager license to be installed on this device.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_FIREWALL</td>
</tr>
</tbody>
</table>

**DYNAMIC_VPN_LICENSE_UNINSTALLED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Dynamic VPN license name deleted, license limit total, count free</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An Access Manager license is removed from this device.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_FIREWALL</td>
</tr>
</tbody>
</table>
CHAPTER 33

ESPTASK System Log Messages

This chapter describes messages with the ESPTASK prefix.

**ESPTASK_PARSE_BAD_SWITCH**

System Log Message: executable-name: invalid switch: option

Description: This process terminated because of an invalid option.

Type: Error: An error occurred

Severity: error

Facility: ANY

Action: Examine the messages that immediately follow this message in the system log for information about possible causes. For more information, see KB18885.

Cause: An internal software failure occurred.

**ESPTASK_PARSE_CMD_ARG**

System Log Message: executable-name: missing argument for switch: option

Description: This process terminated because of an internal error.

Type: Error: An error occurred

Severity: error

Facility: ANY

Action: Examine the messages that immediately follow this message in the system log for information about possible causes. For more information, see KB18885.

Cause: An internal software failure occurred.

**ESPTASK_PARSE_CMD_EXTRA**

System Log Message: executable-name: extraneous information on command line: option

Description: This process terminated because of an invalid option.
Type: Error: An error occurred
Severity: error
Facility: ANY
Action: Examine the messages that immediately follow this message in the system log for information about possible causes. For more information, see KB18887.

Cause: An internal software failure occurred.

ESPTASK_PARSE_USAGE

Description: This process terminated because of an invalid option.

Type: Error: An error occurred
Severity: error
Facility: ANY
Action: Examine the messages that immediately follow this message in the system log for information about possible causes.

Cause: An internal software failure occurred.
This chapter describes messages with the **ESWD** prefix. They are generated by the ethernet bridging process (eswd).

### ESWD_BPDU_BLOCK_ERROR_DISABLED

**System Log Message**  
`interface-name`: bpdu-block disabled port

**Description**  
This condition occurs when bpdu-block error condition is detected.

**Type**  
Error: An error occurred

**Severity**  
alert

**Facility**  
LOG_DAEMON

### ESWD_BPDU_BLOCK_ERROR_ENABLED

**System Log Message**  
`interface-name`: bpdu-block enabled port

**Description**  
This condition occurs when bpdu-block error condition is cleared.

**Type**  
Error: An error occurred

**Severity**  
alert

**Facility**  
LOG_DAEMON

### ESWD_DAI_FAILED

**System Log Message**  
`count` type received, interface `interface-name`[`index interface-device-index`], vlan `vlan-name`[`index vlan-id`], sender ip/mac `sender-address/mac1`, receiver ip/mac `destination-address/mac2`

**Description**  
The ARP request/response receieved on this port cannot be linked to any of the IPs assigned by DHCP.

**Type**  
Error: An error occurred

**Severity**  
alert

**Facility**  
LOG_DAEMON
ESWD_DHCP_UNTRUSTED

System Log Message  count untrusted type received, interface interface-name[index interface-device-index], vlan vlan-name[index vlan-id], server ip/mac source-address/mac1, offer ip/client mac client-address/mac2

Description  DHCP server packets are being received on a port which was not meant to receive server traffic.

Type  Error: An error occurred
Severity  alert
Facility  LOG_DAEMON

ESWD_INVALID_MAC_ADDRESS

System Log Message  Invalid MAC address mac-address received on interface-name

Description  Received a MAC address that is not in the configured valid MAC addresses for this interface.

Type  Error: An error occurred
Severity  alert
Facility  LOG_DAEMON

Cause  MAC address received is not configured as a valid MAC address for this interface.

ESWD_LEARNT_FDB_MEMORY_ERROR

System Log Message  FDB entry for error-message creation failed as ESWD is running low on memory.

Description  ESWD is currently running low on resources and ESWD does not allow MAC to be learnt in this condition.

Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON

Cause  It is possible that the ESWD lacked the resources to fulfill the request.

ESWD_MAC_LIMIT_ALERT

System Log Message  MAC limit is less than the current number of MACs for the interface. You might want to remove some of the MACs for interface interface-name using `clear ethernet-switching table` command

Description  Log message alerting user to clear the MACs because the number of MACs learned on an interface exceeds the mac limit

Type  Error: An error occurred
**ESWD_MAC_LIMIT_BLOCK**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>System Log Message</td>
<td>MAC limit (limit) exceeded at interface-name: shutting down the interface</td>
</tr>
<tr>
<td>Description</td>
<td>Interface was blocked because the number of MAC addresses learned on an interface has exceeded the user configured limit.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>More learning requests were received by the system than the user configured.</td>
</tr>
</tbody>
</table>

**ESWD_MAC_LIMIT_DROP**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>System Log Message</td>
<td>MAC limit (limit) exceeded at interface-name: dropping the packet</td>
</tr>
<tr>
<td>Description</td>
<td>Learning request was dropped because the number of MAC addresses learned on an interface has reached the user configured limit.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>More learning requests were received by the system than the user configured.</td>
</tr>
</tbody>
</table>

**ESWD_MAC_LIMIT_EXCEEDED**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>System Log Message</td>
<td>MAC limit (limit) exceeded at interface-name</td>
</tr>
<tr>
<td>Description</td>
<td>Number of MAC addresses learned on an interface has exceeded the user configured limit.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>More learning requests were received by the system than the user configured.</td>
</tr>
</tbody>
</table>

**ESWD_MAC_MOVE_LIMIT_BLOCK**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>System Log Message</td>
<td>MAC move limit (limit) exceeded at vlan-name for MAC address mac-address; shutting down interface interface-name</td>
</tr>
<tr>
<td>Description</td>
<td>Data traffic on interface was halted because the number of times that a MAC addresses moved to a different interface exceeded the user-configured limit.</td>
</tr>
</tbody>
</table>
**ESWD_MAC_MOVE_LIMIT_DROP**

**System Log Message**
MAC move limit \((limit)\) exceeded at \(vlan-name\) for MAC address \(mac-address\); dropping the packet on interface \(interface-name\)

**Description**
Learning request was dropped because the number of times a MAC address moved to a different interface exceeded the user-configured limit.

**ESWD_MAC_MOVE_LIMIT_EXCEEDED**

**System Log Message**
MAC move limit \((limit)\) exceeded at \(vlan-name\) for MAC address \(mac-address\) on interface \(interface-name\)

**Description**
The number of times that a MAC address moved to a different interface within a VLAN exceeded the user-configured limit.

**ESWD_MIRROR_ERROR**

**System Log Message**
Unable to establish mirror connection between Routing Engines: \(error-message\)

**Description**
The indicated error occurred when the layer2 control protocol process (l2cpd) tried to establish the nonstop routing mirror connection between the master and standby Routing Engines.
### ESWD_MIRROR_VERSION_MISMATCH

**System Log Message**: Versions of mirror software on Routing Engines are incompatible: *error-message*

**Description**: While trying to establish the nonstop routing mirror connection between the master and standby Routing Engines, the layer2 control protocol process (l2cpd) determined that the version of the nonstop routing mirror software on the Routing Engines did not match.

**Type**: Error: An error occurred

**Severity**: warning

**Facility**: LOG_DAEMON

**Cause**: The master and standby Routing Engines are running incompatible versions of the Junos OS.

**Action**: Update the Junos OS on the master Routing Engine, standby Routing Engine, or both, so that they are running compatible versions.

### ESWD_MODULE_SHUTDOWN_FAILURE

**System Log Message**: ESWD: *error-message* Module shutdown failed

**Description**: While deleting the instance of logical-switch, RST/MST Module shutdown failed.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

**Action**: For more information, see KB18890.

### ESWD_OUT_OF_LOW_MEMORY

**System Log Message**: *error-message*. ESWD is out of memory overload condition and ESWD can learn new macs now

**Type**: Error: An error occurred

**Severity**: info

**Facility**: LOG_DAEMON
**ESWD_PPM_READ_ERROR**

- **System Log Message**: Read error on pipe from ppmd: reason *(error-message)*
- **Description**: The ethernet bridging process (eswd) could not read a message available on the read pipe from the periodic packet management process (ppmd).
- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON
- **Action**: Contact your technical support representative. For more information, see [KB18888](#).

**ESWD_PPM_WRITE_ERROR**

- **System Log Message**: function-name: write error on pipe to ppmd *(error-message)*
- **Description**: The ethernet bridging process (eswd) could not write a message on the pipe to the periodic packet management process (ppmd).
- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON
- **Action**: Contact your technical support representative. For more information, see [KB18889](#).

**ESWD_STATIC_FDB_MEMORY_WARNING**

- **System Log Message**: *(error-message)*
- **Description**: ESWD is currently running low on resources and further creation of FDB static entry may fail.
- **Type**: Error: An error occurred
- **Severity**: warning
- **Facility**: LOG_DAEMON
- **Cause**: It is possible that the ESWD lacked the resources to fulfill the request.

**ESWD_STP_BASE_MAC_ERROR**

- **System Log Message**: Failed to get *(error-message)*. All modules will remain disabled.
- **Description**: This condition occurs when STP cannot derive the base MAC address of the system.
- **Type**: Error: An error occurred
- **Severity**: alert
- **Facility**: LOG_DAEMON
**ESWD_STP_LOOP_PROTECT_CLEARED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>interface-name: loop protect cleared for instance instance-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This condition occurs when STP loop protect condition is cleared.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**ESWD_STP_LOOP_PROTECT_IN_EFFECT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>interface-name: loop protect in effect for instance instance-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This condition occurs when STP loop protect condition occurs.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**ESWD_STP_ROOT_PROTECT_CLEARED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>interface-name: root protect cleared for instance instance-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This condition occurs when STP root protect condition is cleared.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**ESWD_STP_ROOT_PROTECT_IN_EFFECT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>interface-name: root protect in effect for instance instance-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This condition occurs when STP root protect condition occurs.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**ESWD_STP_STATE_CHANGE_INFO**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>context-name state for interface interface-name context id instance-id changed from old-state to new-state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Message is logged to the syslog server when ever there is a state change.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
</tbody>
</table>

For more information, see KB18890.
Severity info
Facility LOG_DAEMON

ESWD_ST_CTL_BW_INFO
System Log Message interface-name: configured storm control speed level is greater than interface speed bandwidth. Storm control will be set to the latter
Description Log message to alert the user to the bandwidth setting limits.
Type Error: An error occurred
Severity alert
Facility LOG_DAEMON

ESWD_ST_CTL_ERROR_DISABLED
System Log Message interface-name: storm control disabled port
Description This condition occurs when storm control error condition is detected.
Type Error: An error occurred
Severity alert
Facility LOG_DAEMON

ESWD_ST_CTL_ERROR_ENABLED
System Log Message interface-name: storm control enabled port
Description This condition occurs when storm-control error condition is cleared.
Type Error: An error occurred
Severity alert
Facility LOG_DAEMON

ESWD_ST_CTL_ERROR_IN_EFFECT
System Log Message interface-name: storm control in effect on the port
Description This condition occurs when storm control error condition is detected.
Type Error: An error occurred
Severity alert
Facility LOG_DAEMON

ESWD_ST_CTL_INFO
System Log Message storm control is enabled for interface interface-name
Description Log message to alert the user to the storm control setting.
Type Error: An error occurred
Severity alert
Facility LOG_DAEMON

**ESWD_SYSTEM_CALL_FAILED**

System Log Message reason: error-message
Description A system call made by enterprise switching process (eswd) failed.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause It is possible that the kernel lacked the resources to fulfill the request.

**ESWD_VLAN_MAC_LIMIT_EXCEEDED**

System Log Message vlan vlan-name mac mac-address (tag vlan-id), vlan limit exceeded
Description Number of MAC addresses learned on a vlan has exceeded the user configured limit.

Type Error: An error occurred
Severity alert
Facility LOG_DAEMON
Cause More learning request were received by the system than the user configured.
CHAPTER 35

EVENTD System Log Messages

This chapter describes messages with the EVENTD prefix. They are generated by the event policy process (eventd), which performs configured actions in response to events on a routing platform that trigger system log messages.

EVENTD_ACK_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to send acknowledgment: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>JUNOS processes can request that the event processing process (eventd) notify them when a specific event occurs. The eventd process could not send an acknowledgment for a registration request, for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

EVENTD_ALARM_CLEAR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>User username cleared alarm: &quot;timestamp: message&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An administrator has acknowledged and cleared a security alarm.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

EVENTD_ALARM_FILE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Could not open the eventd alarm file 'filename' for writing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The event processing process (eventd) could not open the alarm statistics file for writing.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
EVENTD_AUDIT_DISABLED

System Log Message  Security audit alarm module "module" disabled
Description  An administrator disabled a security audit module.
Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_DAEMON

EVENTD_AUDIT_ENABLED

System Log Message  Security audit alarm module "module" enabled
Description  An administrator enabled a security audit module.
Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_DAEMON

EVENTD_AUDIT_SHOW

System Log Message  User username viewed security audit log with arguments:arguments
Description  An administrator viewed the security audit log.
Type  Event: This message reports an event, not an error
Severity  notice
Facility  LOG_DAEMON

EVENTD_COMMAND_SUBSTITUTE_ERROR

System Log Message  Variable substitution failed for command 'command'
Description  The event processing process (eventd) can be configured to execute a JUNOS command-line interface (CLI) command when a specified event occurs. The command can include one or more variables (such as an interface name), which the eventd process replaces with actual values related to the event when it issues the command. Variable substitution failed for the indicated command.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Cause  An internal software failure occurred.

EVENTD_ESCRIPT_EXECUTION

System Log Message  Trying to execute the script 'filename' from 'directory-name'
<table>
<thead>
<tr>
<th>Event Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVENTD_ESCRIPT_NOT_CONFIGURED</td>
<td>The event process (eventd) executing the non configured event script from the specified location.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>Trying to execute the non configured script 'filename' from 'directory-name'</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Event Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVENTD_EVENT_SEND_FAILED</td>
<td>Junos processes can request that the event processing process (eventd) notify them when a specific event occurs. The eventd process could not send an event notification for the indicated reason.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to send event notification: error-message</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Event Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVENTD_FORK_ERR</td>
<td>The event processing process (eventd) could not create a child process for executing policies.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to fork: error-message</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Event Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVENTD_PIPE_CREATION FAILED</td>
<td>Unable to create pipe: error-message</td>
</tr>
</tbody>
</table>
The event processing process (eventd) could not create a pipe for interprocess communication.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

### EVENTD_POLICY_ACTION_FAILED

**System Log Message**
Unable to execute 'action' action in policy 'policy-name'

**Description**
The event processing process (eventd) could not perform the indicated action, which is specified by the indicated policy.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

### EVENTD_POLICY_LIMIT_EXCEEDED

**System Log Message**
Unable to execute policy 'policy-name' because current number of policies (count) exceeds system limit (limit)

**Description**
The event processing process (eventd) could not execute the indicated policy, because the indicated number of currently executing policies exceeded the indicated maximum defined by the system.

**Type**
Event: This message reports an event, not an error

**Severity**
warning

**Facility**
LOG_DAEMON

### EVENTD_POLICY_UPLOAD_FAILED

**System Log Message**
Unable to upload file 'filename' to destination 'destination-name' for policy 'policy-name'

**Description**
The event processing process (eventd) could not upload the indicated file to the indicated destination.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

### EVENTD_POPEN_FAIL

**System Log Message**
Error error-code in invoking command 'command'

**Description**
A call to the popen() function failed when the event processing process (eventd) invoked the indicated command.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**EVENTD_READ_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>recvmsg() failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The event processing process (eventd) could not read an event sent to it, for the indicated reason.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**EVENTD_REGEXP_INVALID**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Invalid regular expression 'regular-expression' provided for attribute value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The event processing process (eventd) received a request that included the indicated regular expression as the value for an attribute. The regular expression is not valid.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
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</tr>
</tbody>
</table>

**EVENTD_REG_VERSION_MISMATCH**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Registration version expected-value did not match expected version (received-value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The event processing process (eventd) received a registration request with the indicated version indicator, which does not match the indicated version expected by the eventd process.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**EVENTD_ROTATE_COMMAND_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Command 'command' failed during rotation of file 'filename': error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The event processing process (eventd) invoked the indicated command while attempting to rotate the indicated file. The command failed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
EVENTD_ROTATE_FORK_EXCEEDED

System Log Message: Unable to fork: too many child processes
Description: The event processing process (eventd) could not create a child process for rotating files because adding another child would have made the number of children exceed the limit.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

EVENTD_ROTATE_FORK_FAILED

System Log Message: Unable to fork: error-message
Description: The event processing process (eventd) could not create a child process for rotating files, for the indicated reason.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

EVENTD_SCRIPT_CHECKSUM_MISMATCH

System Log Message: checksum checksum value does not match for script filename
Description: Current checksum value of the script does not match with the checksum configured under [event-options event-script] hierarchy. As a result any event-policy configured inside the script will not be read
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

EVENTD_SECURITY_LOG_CLEAR

System Log Message: User username cleared count security log(s)
Description: An administrator has cleared one or more security audit logs.
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON

EVENTD_SET_PROCESS_PRIV_FAILED

System Log Message: Unable to set process privilege level to that of user 'username': error-message
Description: In preparation for executing an action defined in a policy, the event processing process (eventd) tried to change its privilege level to that of the indicated JUNOS user. The
attempt failed. It made the attempt because the user-name statement is included at one of several possible levels under the [edit event-options policy <policy-name> then] hierarchy level.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**EVENTD_SET_TIMER_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>evSetTimer failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The event processing process (eventd) starts a timer whenever an internal event needs to be generated. It could not activate the timer for the indicated reason.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**EVENTD_SYSLOG_FWD_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to forward syslog message to PSD (psd-id), errorno: error-code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The event processing process (eventd) encountered a system error when forwarding a syslog message to indicated protected system domain (PSD).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**EVENTD_TEST_ALARM**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>This is test alarm argument1 of argument2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This is an alarm test for the eventd alarm infrastructure.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**EVENTD_TRANSFER_COMMAND_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Command 'error-code' failed during transfer of file 'command': filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The event processing process (eventd) invoked the indicated command while attempting to transfer the indicated file. The command failed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
</tbody>
</table>
Facility LOG_DAEMON

EVENTD_TRANSFER_FORK_EXCEEDED
System Log Message Unable to fork: too many child processes
Description The event processing process (eventd) could not create a child process for transferring files, because adding another child would have made the number of children exceed the limit.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

EVENTD_TRANSFER_FORK_FAILED
System Log Message Unable to fork: error-message
Description The event processing process (eventd) could not create a child process for transferring files, for the indicated reason.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

EVENTD_VERSION_MISMATCH
System Log Message Event version expected-value did not match expected version (received-value)
Description The event processing process (eventd) received an event with the indicated version indicator, which does not match the indicated version expected by the eventd process.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action For more information, see KB18893.

EVENTD_XML_FILENAME_INVALID
System Log Message XML syntax of output filename was invalid
Description An event script created an output file and wrote the filename to standard output (stdout) with Extensible Markup Language (XML) tagging like the following: <event-script-output-filename>output-file.tgz</event-script-output-filename>. The event processing process read the output filename and determined that its XML syntax was invalid.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
CHAPTER 36

FABOAMD System Log Messages

This chapter describes messages with the FABOAMD prefix on the Juniper Networks QFabric QFX3000 switch. They are generated by the QFabric switch Operations, Administration, and Maintenance (OAM) process (faboamd), which enables OAM operations (such as a fabric ping) across different devices in the QFabric switch.

FABOAMD_DEBUGGING

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>reason: index error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A system call made by the Fabric OAM (faboamd) failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>It is possible that the kernel did not have enough resources to fulfill the request.</td>
</tr>
</tbody>
</table>

FABOAMD_TASK_SOCK_ERR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>reason: index error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A socket API from the Fabric OAM daemon call returned error.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>It is possible that the kernel did not have enough resources to fulfill the request.</td>
</tr>
</tbody>
</table>
CHAPTER 37

FC System Log Messages

This chapter describes messages with the FC prefix. They are generated by the Fibre Channel process (fcd) which connects servers to disks and tape devices in a storage area network.

**FC_FABRIC_CREATED**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Fibre channel fabric is created.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FC_FABRIC_DELETED**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Fibre channel fabric is deleted.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FC_FABRIC_WWN_ASSIGNED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name fabric-wwn wwn is set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Fabric_WWN has been set for a fibre channel fabric.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FC_FABRIC_WWN_CLEARED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name fabric-wwn wwn is cleared</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Fabric_WWN is cleared for a fibre channel fabric.</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### FC_FLOGI_VN_PORT_LOGIN_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name interface interface-name enode-mac enode-mac-address wwn wwn - reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>FIP FLOGI/FDISC from the end node has failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### FC_LOGICAL_INTERFACE_CREATED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name interface interface-name created</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Fibre channel logical interface is created.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### FC_LOGICAL_INTERFACE_DELETED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name interface interface-name deleted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Fibre channel logical interface is deleted.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### FC_LOGICAL_INTERFACE_ISOLATED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name interface interface-name reason - reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Fibre channel logical interface is isolated.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Protocol error or repeated failure must have occurred.</td>
</tr>
</tbody>
</table>


Action  Check physical connection and reason code for isolation.

Action  Interface disable followed by enable might clear this problem.

**FC_PROXY_NP_PORT_LB_ADDED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name NP_Port interface-name added to fabric load balance list</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>NP_Port is added to the fabric load balance list.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FC_PROXY_NP_PORT_LB_REMOVED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name NP_Port interface-name removed from fabric load balance list</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>NP_Port is removed from the fabric load balance list.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FC_PROXY_NP_PORT_LOGIN_ABORTED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name NP_Port interface-name login aborted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Login from NP_Port has aborted.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>It is possible that the NP_Port or fibre channel switch is experiencing timeouts.</td>
</tr>
</tbody>
</table>

**FC_PROXY_NP_PORT_LOGIN_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name NP_Port interface-name login failed - error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Login from NP_Port has failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>NP_Port login is rejected by the fibre channel switch.</td>
</tr>
</tbody>
</table>
Action Check fibre channel switch configuration.

**FC_PROXY_NP_PORT_LOGOUT**

*System Log Message* Fabric fc-fabric-name NP_Port interface-name logged out by core switch

*Description* NP_Port is logged out from the fabric port.

*Type* Event: This message reports an event, not an error

*Severity* info

*Facility* LOG_DAEMON

**FC_PROXY_NP_PORT_NPIV_FAILED**

*System Log Message* Fabric fc-fabric-name NP_Port interface-name attached fabric port does not support NPIV

*Description* Fabric port on the fibre channel switch does not support NPIV.

*Type* Error: An error occurred

*Severity* error

*Facility* LOG_DAEMON

**FC_PROXY_NP_PORT_OFFLINE**

*System Log Message* Fabric fc-fabric-name NP_Port interface-name is offline

*Description* Proxy NP_Port is down.

*Type* Event: This message reports an event, not an error

*Severity* info

*Facility* LOG_DAEMON

**FC_PROXY_NP_PORT_ONLINE**

*System Log Message* Fabric fc-fabric-name NP_Port interface-name fcid: fcid online

*Description* Login from NP_Port is completed.

*Type* Event: This message reports an event, not an error

*Severity* info

*Facility* LOG_DAEMON

**FC_PROXY_VN_PORT_LOGIN_ABORTED**

*System Log Message* Fabric fc-fabric-name NP_Port interface-name FDISC is aborted for wwn wwn

*Description* FLOGI or FDISC from the VN_port (end node) is aborted.

*Type* Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: It is possible that the NP_Port or fibre channel switch is experiencing timeouts.

**FC_PROXY_VN_PORT_LOGIN_FAILED**

System Log Message: Fabric fc-fabric-name NP_Port interface-name FDISC rejected for wwn wwn - error-message
Description: FLOGI or FDISC from the VN_Port (end node) has failed.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: VN_Port login is rejected by the fibre channel switch.
FCD System Log Messages

This chapter describes messages with the FCD prefix. They are generated by the Fibre Channel process (fcd) which connects servers to disks and tape devices in a storage area network.

FCD_SYS_CALL_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>reason: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A system call made by the fibre channel process (fcd) failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>It is possible that the kernel did not have enough resources to fulfill the request.</td>
</tr>
</tbody>
</table>
This chapter describes messages with the FCOE prefix. They are generated by the Fibre Channel process (fcd) which connects servers to disks and tape devices in a storage area network.

**FCOE_LOGICAL_INTERFACE_CREATED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name interface interface-name mac mac-address created</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Fibre channel over Ethernet logical interface is created.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FCOE_LOGICAL_INTERFACE_DELETED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name interface interface-name mac mac-address deleted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Fibre channel over Ethernet logical interface is deleted.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FCOE_LOGICAL_INTERFACE_ISOLATED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name interface interface-name mac mac-address reason - reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Fibre channel over Ethernet logical interface is isolated.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Protocol error or repeated failure must have occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Check physical connection and reason code for isolation.</td>
</tr>
</tbody>
</table>
**Action**  Interface disable followed by enable might clear this problem.
CHAPTER 40

FIP System Log Messages

This chapter describes messages with the FIP prefix. They are generated by the Fibre Channel process (fcd) which connects servers to disks and tape devices in a storage area network.

### FIP_ENODE_CLEARED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name interface interface-name enode-mac enode-mac-address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>FIP end node is removed from a fibre channel fabric.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### FIP_ENODE_FKA_TIMER_EXPIRED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name interface interface-name enode-mac enode-mac-address keepalive timer expired</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>FIP end node keepalive timer expired.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### FIP_ENODE_LEARNED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Fabric fc-fabric-name interface interface-name enode-mac enode-mac-address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>FIP End node is learnt on a fibre channel fabric.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### FIP_MAX_FCOE_FILTERS_REACHED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Maximum number of allowed FCoE filters (slot) reached for this slot maximum-value</th>
</tr>
</thead>
</table>
Description  Maximum number of allowed FCoE filters reached.

**FIP_MAX_SESSIONS_REACHED**

System Log Message Maximum number of allowed FIP sessions (slot) reached for this slot maximum-value

Description Maximum number of allowed FIP sessions reached.

**FIP_PROTOCOL_STARTED**

System Log Message Fabric fc-fabric-name interface interface-name fcf-mac mac-address FIP protocol started

Description FIP protocol is started on an interface.

**FIP_PROTOCOL_STOPPED**

System Log Message Fabric fc-fabric-name interface interface-name fcf-mac mac-address FIP protocol stopped

Description FIP protocol is stopped on an interface.

**FIP_VN_PORT_FKA_TIMER_EXPIRED**

System Log Message Fabric fc-fabric-name interface interface-name enode-mac enode-mac-address wwn wwn vn-mac vn-mac-address

Description VN_Port keepalive timer expired.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON
### FIP_VN_PORT_LOGIN_FAILED

**System Log Message**
Fabric fc-fabric-name interface interface-name enode-mac enode-mac-address wwn wwn - reason

**Description**
FIP FLOGI/FDISC from the end node has failed.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Cause**
VN_Port login is rejected. It is possible that the maximum session limit has reached.

**Action**
Check the number of sessions on the end node or the number of sessions on the gateway

### FIP_VN_PORT_SESSION_CLEARED

**System Log Message**
Fabric fc-fabric-name interface interface-name enode-mac enode-mac-address wwn wwn vn-mac vn-mac-address fcid fcid

**Description**
VN_Port login session is terminated.

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
LOG_DAEMON

### FIP_VN_PORT_SESSION_CREATED

**System Log Message**
Fabric fc-fabric-name interface interface-name enode-mac enode-mac-address wwn wwn vn-mac vn-mac-address fcid fcid

**Description**
FIP FLOGI/FDISC from the end node is completed.

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
LOG_DAEMON
This chapter describes messages with the FIPS prefix. They are generated by the process, which deals with encryption, authentication, and authorization issues.

**FIPS_KNOWN_ANSWER_TEST**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>username :test-name Known Answer Test: Passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>FIPS Known Answer Test passed.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>
FLOW System Log Messages

This chapter describes messages with the FLOW prefix. They are generated by the process that handles flows on routers running the Junos OS with enhanced services.

**FLOW_APP_POLICY_VIOLATION**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Application service-name policy violation occurred threshold times within time-period seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A log was generated when a deny or reject policy match on one application occurred according to the configured threshold within the specified time window.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**FLOW_DSTIP_POLICY_VIOLATION**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Destination ip destination-address policy violation occurred threshold times within time-period seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A log was generated when a deny or reject policy match on one destination IP address occurred according to the configured threshold within the specified time window.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**FLOW_HIGH_WATERMARK_TRIGGERED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Number of sessions current-flows exceeded the high watermark limit. Early aging triggered.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Early aging of sessions is triggered when the number of concurrent session entries in the session table exceeds the configured high watermark. When the number of concurrent sessions drops below the configured low watermark, the router stops aggressively aging out sessions. This message notifies you that the session high watermark has been exceeded and aggressive aging of sessions has begun.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>
FLOW_HIGH_WATERMARK_TRIGGERED_LS

System Log Message
Lsys logical-system: Number of sessions current-flows exceeded the high watermark limit. Early aging triggered.

Description
Early aging of sessions is triggered when the number of concurrent session entries in the session table exceeds the configured high watermark. When the number of concurrent sessions drops below the configured low watermark, the router stops aggressively aging out sessions. This message notifies you that the session high watermark has been exceeded and aggressive aging of sessions has begun.

Type
Event: This message reports an event, not an error

Severity
info

Facility
LOG_USER

FLOW_IP_ACTION

System Log Message
Flow IP action detected attack attempt: source-address/source-port --&gt; destination-address/destination-port from interface interface-name, from zone source-zone-name, action action.

Description
Flow IP action notification is generated when a new connection matches security flow IP action filter that has been setup to log or has ip-notify action.

Type
Event: This message reports an event, not an error

Severity
info

Facility
LOG_PFE

FLOW_IP_ACTION_LS

System Log Message
Lsys logical-system: Flow IP action detected attack attempt: source-address/source-port --&gt; destination-address/destination-port from interface interface-name, from zone source-zone-name, action action.

Description
Flow IP action notification is generated when a new connection matches security flow IP action filter that has been setup to log or has ip-notify action.

Type
Event: This message reports an event, not an error

Severity
info

Facility
LOG_PFE

FLOW_LOW_WATERMARK_TRIGGERED

System Log Message
Number of sessions current-flows dropped below the low watermark limit. Early aging stopped.
Description Early aging of sessions is triggered when the number of concurrent session entries in the session table exceeds the configured high watermark. When the number of concurrent sessions drops below the configured low watermark, the router stops aggressively aging out sessions. This message notifies you that the number of concurrent sessions has dropped below the configured low watermark, and that aggressive aging of sessions has stopped.

Type Event: This message reports an event, not an error
Severity info
Facility LOG_USER

FLOW_LOW_WATERMARK_TRIGGERED_LS

System Log Message Lsys logical-system-name: Number of sessions current-flows dropped below the low watermark limit. Early aging stopped.

Description Early aging of sessions is triggered when the number of concurrent session entries in the session table exceeds the configured high watermark. When the number of concurrent sessions drops below the configured low watermark, the router stops aggressively aging out sessions. This message notifies you that the number of concurrent sessions has dropped below the configured low watermark, and that aggressive aging of sessions has stopped.

Type Event: This message reports an event, not an error
Severity info
Facility LOG_USER

FLOW_POLICY_VIOLATION

System Log Message Policy policy-name violation occurred threshold times within time-period seconds

Description A log was generated when a deny or reject policy match occurred according to the configured threshold within the specified time window.

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_PFE

FLOW_REASSEMBLE_FAIL

System Log Message FCB ageout before all fragments arrive, source source-address destination destination-address ipid assembly-id

Description A log was generated when an FCB age out occurred before all fragments arrived.

Type Event: This message reports an event, not an error
Severity info
Facility LOG_PFE
### FLOW_REASSEMBLE_SUCCEED

**System Log Message**  
Packet merged source source-address destination destination-address ipid assembly-id succeed

**Description**  
A log was generated when the reassemble succeeded.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
LOG_PFE

### FLOW_SRCIP_POLICY_VIOLATION

**System Log Message**  
Source ip source-address policy violation occurred threshold times within time-period seconds

**Description**  
A log was generated when a deny or reject policy match on one source IP address occurred according to the configured threshold within the specified time window.

**Type**  
Event: This message reports an event, not an error

**Severity**  
notice

**Facility**  
LOG_PFE
FPCLOGIN System Log Messages

### FPCLOGIN_ADDRESS_GET_FAILED

**System Log Message**
Unable to determine IP address of TGM in slot slot

**Description**
A user tried to log in to the Physical Interface Module (PIM) in the indicated slot on a Flexible PIC Concentrator (FPC). In response, the FPC login process (pimlogin) tried to determine the PIM's IP address. It could not do so, and the login attempt failed.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

### FPCLOGIN_IPC_RECEIVE_FAILED

**System Log Message**
Unable to receive IPC message from process-name

**Description**
The Flexible PIC Concentrator (FPC) login process (pimlogin) could not process an interprocess communication (IPC) message from the indicated other process. The 'wxd' process is the WX Physical Interface Module process.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

### FPCLOGIN_IPC_SEND_FAILED

**System Log Message**
Unable to send IPC message to process-name

**Description**
The Flexible PIC Concentrator (FPC) login process (pimlogin) could not send an interprocess communication (IPC) message to the indicated other process. The 'wxd' process is the WX Physical Interface Module process (wxd).

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON
## FPCLOGIN_LOGIN_FAILED

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>fpclogin failed: <em>error-message</em></td>
</tr>
<tr>
<td>Description</td>
<td>A user tried to log in to a Physical Interface Module (PIM). The attempt failed for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

## FPCLOGIN_MESSAGE_INVALID

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Message from <em>process-name</em> <em>error-message</em></td>
</tr>
<tr>
<td>Description</td>
<td>The message that the Flexible PIC Concentrator (FPC) login process (pimlogin) received from the indicated other process was invalid in the indicated way. The 'wxd' process is the WX Physical Interface Module process (wxd).</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

## FPCLOGIN_SOCKET_OPERATION_FAILED

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Unable to complete <em>error-message</em> operation</td>
</tr>
<tr>
<td>Description</td>
<td>The Flexible PIC Concentrator (FPC) login process (pimlogin) could not perform the indicated operation on a routing socket.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
# FSAD System Log Messages

This chapter describes messages with the **FSAD** prefix. They are generated by the File System Access process (fsad), which provides Trivial FTP (TFTP) support for file transfer between services PICs and other routing platform components.

## FSAD_CONFIG_ERROR

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Reason: reason</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The configuration file for the File System Access process (fsad) might contain an error.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

## FSAD_CONNTIMEDOUT

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Connection timed out to the client (connection-type, ip-address) having request type port</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The File System Access process (fsad) flushed all state information about the timed-out connection.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

## FSAD_DIR_CREATE

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Failed to create directory directory-name: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The File System Access process (fsad) could not create the indicated directory.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
**FSAD_DIR_STAT**

*System Log Message*  
function-name: stat() failed for pathname pathname: reason

*Description*  
The File System Access process (fsad) received a request for a nonexistent file or directory.

*Type*  
Error: An error occurred

*Severity*  
error

*Facility*  
LOG_DAEMON

*Cause*  
The path does not exist.

*Action*  
Make sure the path specified in the request is valid.

**FSAD_FAILED**

*System Log Message*  
In enclosing-function-name: function-name() returned: reason

*Description*  
An internal error occurred inside a function in the File System Access process (fsad).

*Type*  
Error: An error occurred

*Severity*  
error

*Facility*  
LOG_DAEMON

*Cause*  
An internal software failure occurred.

*Action*  
Contact your technical support representative.

**FSAD_FILE_FAILED**

*System Log Message*  
enclosing-function-name: function-name failed for file 'filename' with error message reason

*Description*  
An internal error occurred while the File System Access process (fsad) was performing a file operation.

*Type*  
Error: An error occurred

*Severity*  
error

*Facility*  
LOG_DAEMON

*Cause*  
An internal software failure occurred.

*Action*  
Contact your technical support representative.

**FSAD_FILE_REMOVE**

*System Log Message*  
Unable to remove file 'filename': reason
Description: The File System Access process (fsad) could not remove the indicated file for the indicated reason.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Cause: The file to be removed does not exist or its permissions do not allow the operation.

Action: Make sure that the file exists and that its permissions allow it to be deleted.

---

**FSAD_FILE_RENAME**

System Log Message: Unable to rename file 'source-filename' to 'destination-filename': reason

Description: The File System Access process (fsad) could not rename the indicated file for the indicated reason.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Cause: Either the source file does not exist, or one or both of the source and destination pathnames are incorrect.

Action: Make sure the source and destination paths exist and that the rename operation is allowed.

---

**FSAD_FILE_STAT**

System Log Message: function-name: stat() failed for file pathname pathname: reason

Description: The File System Access process (fsad) received a request for a nonexistent file.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Cause: The file path does not exist.

Action: Make sure the path specified in the request is valid.

---

**FSAD_FILE_SYNC**

System Log Message: Unable to sync file 'filename': reason
When closing a file, the File System Access process (fsad) executes the `sync()` system call to ensure that any changes to the file are committed to disk. This operation failed for the indicated file.

**Type** Error: An error occurred  
**Severity** error  
**Facility** LOG_DAEMON

**FSAD_FLOWC_IPC_PAYLOAD_SIZE**

**System Log Message**  
Received flowc IPC message with incorrect length: message type `message-type`, subtype `message-subtype`, opcode `operation-code`, length `length` (expected length `expected-value`)

**Description**  
The File System Access process (fsad) received a flow collector IPC message in which the payload length was incorrect.

**Type** Error: An error occurred  
**Severity** error  
**Facility** LOG_DAEMON

**FSAD_FLOWC_IPC_SUBTYPE**

**System Log Message**  
Received flowc IPC message with incorrect subtype: message type `message-type`, subtype `message-subtype`, opcode `operation-code`, length `length`

**Description**  
The File System Access process (fsad) received a flow collector IPC message in which the subtype field was incorrect.

**Type** Error: An error occurred  
**Severity** error  
**Facility** LOG_DAEMON

**FSAD_FLOWC_IPC_TYPE**

**System Log Message**  
Received flowc IPC message with incorrect type: message type `message-type`, subtype `message-subtype`, opcode `operation-code`, length `length`

**Description**  
The File System Access process (fsad) received a flow collector IPC message in which the type field was incorrect.

**Type** Error: An error occurred  
**Severity** error  
**Facility** LOG_DAEMON

**FSAD_FLOWC_IPC_VERSION**

**System Log Message**  
Received flowc IPC message with incorrect version `received-value` (expected version `expected-value`)

**Description**  

Description: The File System Access process (fsad) received a flow collector IPC message in which the version field was incorrect.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

FSAD_FLOWC_SERVICE_INACTIVE

System Log Message: reason
Description: The File System Access process (fsad) received a request for the Flow Collector Transfer Log Archive service, which is not currently active.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

FSAD_FREE_SPACE_LOG

System Log Message: Unable to move temporary file temporary-filename (size file-size KB) to log file log-filename because free disk space (count KB) is insufficient
Description: The File System Access process (fsad) could not move the CDR temporary file of the indicated size to the log file, because it is larger than the amount of free disk space.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

FSAD_FREE_SPACE_TMP

System Log Message: Unable to write CDR batch output to file temporary-filename because free disk space (count KB) is insufficient
Description: The File System Access process (fsad) could not write CDR batch output to the indicated temporary file, because the amount of free disk space was insufficient.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

FSAD_FS_STAT

System Log Message: statfs() failed for pathname pathname: reason
Description: The File System Access process (fsad) encountered an error in getting filesystem statistics.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FSAD_GEN_IPC_PAYLOAD_SIZE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Received IPC message with incorrect length: message type <code>message-type</code>, subtype <code>message-subtype</code>, opcode <code>operation-code</code>, length <code>length</code> (expected length <code>expected-value</code>)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The File System Access process (fsad) received an IPC message in which the payload length was incorrect.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FSAD_GEN_IPC_SUBTYPE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Received IPC message with incorrect subtype: message type <code>message-type</code>, subtype <code>message-subtype</code>, opcode <code>operation-code</code>, length <code>length</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The File System Access process (fsad) received an IPC message in which the subtype field was incorrect.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FSAD_GEN_IPC_TYPE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Received IPC message with incorrect type: message type <code>message-type</code>, subtype <code>message-subtype</code>, opcode <code>operation-code</code>, length <code>length</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The File System Access process (fsad) received an IPC message in which the type field was incorrect.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**FSAD_GEN_IPC_VERSION**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Received generic IPC message with incorrect version <code>received-value</code> (expected version <code>expected-value</code>)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The File System Access process (fsad) received an IPC message in which the version field was incorrect.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
</table>
**FSAD_GEN_SERVICE_INACTIVE**

- **System Log Message**: Received IPC message for inactive service `service-name`
- **Description**: The File System Access process (fsad) received an IPC message for a service that is currently not active.
- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON

**FSAD_GEN_SERVICE_INIT_FAILED**

- **System Log Message**: Failed to initialize service `service-name`
- **Description**: The File System Access process (fsad) could not initialize the indicated service.
- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON

**FSAD_MAXCONN**

- **System Log Message**: Upper limit reached in fsad for handling connections
- **Description**: The File System Access process (fsad) stopped accepting new connections because it reached an internal limit for handling connections.
- **Type**: Event: This message reports an event, not an error
- **Severity**: error
- **Facility**: LOG_DAEMON

**FSAD_MEMORYALLOC_FAILED**

- **System Log Message**: `allocation-function-name` failed in the function `function-name` (line-number)
- **Description**: The File System Access process (fsad) could not allocate memory. The system might be running low on memory.
- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON
  - **Cause**: An internal software failure occurred.
  - **Action**: Contact your technical support representative.
### FSAD_NOT_ROOT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Must be run as root</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The user who attempted to start the File System Access process (fsad) was not the root user.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### FSAD_PARENT_DIRECTORY

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>directory-name: invalid directory: message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The parent directory specified in the request for a file was not valid.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Make sure the path specified in the request is valid.</td>
</tr>
</tbody>
</table>

### FSAD_PATH_IS_DIRECTORY

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>File path cannot be a directory (pathname)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The File System Access process (fsad) received a request on a directory instead of a regular file.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The file path points to a directory.</td>
</tr>
<tr>
<td>Action</td>
<td>Make sure the path points to a regular file.</td>
</tr>
</tbody>
</table>

### FSAD_PATH_IS_NOT_DIRECTORY

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>invalid path 'pathname' : not a directory : action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The File System Access process (fsad) received a request for a pathname that was not a directory.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
## FSAD_PATH_IS_SPECIAL

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not a regular file (pathname)</td>
<td>The File System Access process (fsad) received a request for a pathname that points to a nonregular file.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Make sure the path points to a regular file.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## FSAD_RECVERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>fsad received error message from client having request type connection-type at (ip-address, port)</td>
<td>The File System Access process (fsad) received a packet with the indicated error message from the other end of a connection.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

## FSAD_RENAME

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>function-name: failed to rename temporary file filename to new-filename: reason</td>
<td>The File System Access process (fsad) could not rename the indicated temporary file for the indicated reason.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

## FSAD_TERMINATED_CONNECTION

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open file 'filename' closed due to process shutdown</td>
<td>The File System Access process (fsad) terminated a connection, stored the connection's (unwritten) data to disk, and purged it from its data structures.</td>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
FSAD_TRACEOPEN_FAILED
System Log Message  Open operation on trace file 'pathname' returned error error-message
Description  The File System Access process (fsad) failed to open the indicated trace file.
  Type  Error: An error occurred
  Severity  error
  Facility  LOG_DAEMON

FSAD_USAGE
System Log Message  Incorrect usage, message
Description  The File System Access process (fsad) displayed its usage statement.
  Type  Event: This message reports an event, not an error
  Severity  error
  Facility  LOG_DAEMON
  Cause  The fsad process was invoked with incorrect command-line arguments.
  Action  Check the usage and invoke the fsad process with the correct command-line arguments.
This chapter describes messages with the **FUD** prefix. They are generated by the UDP forwarding process (fud), which forwards UDP (User Datagram Protocol) packets from a network to a server for services that run over UDP.

## FUD_ARGUMENT_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown option &quot;option&quot;</td>
<td>One or more options provided on the 'fud' command line were invalid. The UDP forwarding process (fud) initialized but ignored the invalid options.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Reissue the 'fud' command with the correct options.</td>
</tr>
</tbody>
</table>

## FUD_BAD_SERVER_ADDR_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Destination address of destination-address is invalid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>One or more server addresses configured for the UDP forwarding process (fud) were invalid.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Reconfigure the fud process with valid server addresses.</td>
</tr>
</tbody>
</table>

## FUD_BIND_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>bind(port port) failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The UDP forwarding process (fud) received the indicated error when it tried to bind a socket to a local address.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
</table>
Severity  error
Facility  LOG_DAEMON
Action   Contact your technical support representative.

**FUD_DAEMON_FAILURE**

System Log Message  Unable to run in the background as daemon: error-message
Description  The UDP forwarding process (fud) could not create a version of itself to run in the background as a daemon.
Type   Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action   Contact your technical support representative.

**FUD_MEMORY_ALLOCATION_FAILURE**

System Log Message  Unable to allocate count bytes of memory: error-message
Description  The UDP forwarding process (fud) could not allocate the indicated amount of memory from the heap.
Type   Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action   Contact your technical support representative. For more information, see KB18897.

**FUD_PERMISSION_FAILURE**

System Log Message  program-name must be run as root
Description  The user who attempted to start the UDP forwarding process (fud) was not the root user, so the process did not start.
Type   Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action   Become the root user before issuing the ‘fud’ command.

**FUD_PIDLOCK_FAILURE**

System Log Message  Unable to lock PID file; another program-name was running
Description: The UDP Forwarding process (fud) attempted to lock the file that records its process ID (PID), which serves to prevent multiple instances of the fud process from running simultaneously. The attempt failed.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: Another instance of the fud process is running.
Action: Check whether another fud process is running, and stop it if appropriate.

FUD_PIDUPDATE_FAILURE
System Log Message: Unable to update PID file for program-name
Description: The UDP Forwarding process (fud) attempted to update the file that records its process ID (PID), which serves to prevent multiple instances of the fud process from running simultaneously. The attempt failed.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: Another instance of the fud process is running.
Action: Check whether another fud process is running, and stop it if appropriate.

FUD_RECVMSG_FAILURE
System Log Message: Exiting because of repeated recvmsg() failures
Description: The UDP Forwarding process (fud) could not receive data from the network, which it needs to do during normal operation.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

FUD_RTSOCK_WRITE_FAILURE
System Log Message: Unable to write to routing socket: error-message
Description: The UDP Forwarding process (fud) could not write to its routing socket for the indicated reason.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see <a href="http://kb.juniper.net/InfoCenter/index?page=content&amp;id=KB18898">KB18898</a>.</td>
</tr>
</tbody>
</table>

**FUD_SENDMSG_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>sendmsg() to destination-address port port on interface interface-name rt_inst routing-instance failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The UDP Forwarding process (fud) could not send data to the indicated destination port and address via the indicated interface and routing instance, which it needs to do during normal operation.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see <a href="http://kb.juniper.net/InfoCenter/index?page=content&amp;id=KB18899">KB18899</a>.</td>
</tr>
</tbody>
</table>

**FUD_SENDMSG_NOINT_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>sendmsg() to destination-address port port rt_inst routing-instance failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The UDP Forwarding process (fud) could not send data to the indicated destination port and address via the indicated routing instance, which it needs to do during normal operation.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see <a href="http://kb.juniper.net/InfoCenter/index?page=content&amp;id=KB18900">KB18900</a>.</td>
</tr>
</tbody>
</table>

**FUD_SETSOCKOPT_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>setsockopt(arguments) failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The UDP Forwarding process (fud) could not set the indicated socket option.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see <a href="http://kb.juniper.net/InfoCenter/index?page=content&amp;id=KB18901">KB19</a>.</td>
</tr>
<tr>
<td><strong>FUD_SOCKET_FAILURE</strong></td>
<td></td>
</tr>
<tr>
<td>-------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>socket(<em>arguments</em>) failed: <em>error-message</em></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The UDP Forwarding process (fud) could not create a socket.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Contact your technical support representative. For more information, see <a href="https://www.juniper.net/">KB18902</a>.</td>
</tr>
</tbody>
</table>
This chapter describes messages with the FWAUTH prefix. They are generated by the process that authenticates users when they initiate a connection across a firewall.

<table>
<thead>
<tr>
<th>FWAUTH_FTP_LONG_PASSWORD</th>
<th>System Log Message</th>
<th>Authentication for user \textit{username} at \textit{client-address} was denied (long password).</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Description</td>
<td>The length of the password must not exceed 128 characters.</td>
</tr>
<tr>
<td></td>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td></td>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td></td>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FWAUTH_FTP_LONG_PASSWORD_LS</th>
<th>System Log Message</th>
<th>Lsys logical-system-name: Authentication for user \textit{username} at \textit{client-address} was denied (long password).</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Description</td>
<td>The length of the password must not exceed 128 characters.</td>
</tr>
<tr>
<td></td>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td></td>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td></td>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FWAUTH_FTP_LONG_USERNAME</th>
<th>System Log Message</th>
<th>Authentication for user \textit{username} at \textit{client-address} was denied (long username).</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Description</td>
<td>The length of the username must not exceed 64 characters.</td>
</tr>
<tr>
<td></td>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td></td>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td></td>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FWAUTH_FTP_LONG_USERNAME_LS</th>
<th>System Log Message</th>
<th>Lsys logical-system-name: Authentication for user \textit{username} at \textit{client-address} was denied (long username).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The length of the username must not exceed 64 characters.</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
<td></td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
<td></td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
<td></td>
</tr>
</tbody>
</table>

**FWAUTH_FTP_USER_AUTH_ACCEPTED**

- **System Log Message**: User *username* of group *group-name* at *client-address* is accepted.
- **Description**: The authenticated user can start accessing protected resources.

**FWAUTH_FTP_USER_AUTH_ACCEPTED_LS**

- **System Log Message**: Lsys *logical-system-name*: User *username* of group *group-name* at *client-address* is accepted.
- **Description**: The authenticated user can start accessing protected resources.

**FWAUTH_FTP_USER_AUTH_FAIL**

- **System Log Message**: User *username* at *client-address* is rejected.
- **Description**: User authentication failed because the username or password was invalid.

**FWAUTH_FTP_USER_AUTH_FAIL_LS**

- **System Log Message**: Lsys *logical-system-name*: User *username* at *client-address* is rejected.
- **Description**: User authentication failed because the username or password was invalid.
FWAUTH_HTTP_USER_AUTH_ACCEPTED

System Log Message  User username of group group-name at client-address is accepted.
Description          The authenticated user can start accessing protected resources.
Type                 Event: This message reports an event, not an error
Severity             info
Facility             LOG_PFE

FWAUTH_HTTP_USER_AUTH_FAIL

System Log Message  User username at client-address is rejected.
Description         User authentication failed because the username or password was invalid.
Type                 Event: This message reports an event, not an error
Severity             info
Facility             LOG_PFE

FWAUTH_HTTP_USER_AUTH_FAIL_LS

System Log Message  Lsys logical-system-name: User username at client-address is rejected.
Description         User authentication failed because the username or password was invalid.
Type                 Event: This message reports an event, not an error
Severity             info
Facility             LOG_PFE

FWAUTH_HTTP_USER_AUTH_OK_LS

System Log Message  Lsys logical-system-name: User username of group group-name at client-address is accepted.
Description         The authenticated user can start accessing protected resources.
Type                 Event: This message reports an event, not an error
Severity             info
Facility             LOG_PFE

FWAUTH_TELNET_LONG_PASSWORD

System Log Message  Authentication for user username at client-address was denied (long password).
Description         The length of the password must not exceed 128 characters.
Type                 Event: This message reports an event, not an error
Severity             info
<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_PFE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FWAUTH_TELNET_LONG_PASSWORD_LS</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Lsys.logical-system-name: Authentication for user username at client-address was denied (long password).</td>
</tr>
<tr>
<td>Description</td>
<td>The length of the password must not exceed 128 characters.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
<tr>
<td><strong>FWAUTH_TELNET_LONG_USERNAME</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Authentication for user username at client-address was denied (long username).</td>
</tr>
<tr>
<td>Description</td>
<td>The length of username must not exceed 64 characters.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
<tr>
<td><strong>FWAUTH_TELNET_LONG_USERNAME_LS</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Lsys.logical-system-name: Authentication for user username at client-address was denied (long username).</td>
</tr>
<tr>
<td>Description</td>
<td>The length of username must not exceed 64 characters.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
<tr>
<td><strong>FWAUTH_TELNET_USER_AUTH_ACCEPTED</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>User username of group group-name at client-address is accepted.</td>
</tr>
<tr>
<td>Description</td>
<td>The authenticated user can start accessing protected resources</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
<tr>
<td><strong>FWAUTH_TELNET_USER_AUTH_FAIL</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>User username at client-address is rejected.</td>
</tr>
<tr>
<td>Description</td>
<td>User authentication failed because the username or password was invalid.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>----------</td>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

### FWAUTH_TELNET_USER_AUTH_FAIL_LS

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Lsys logical-system-name: User username at client-address is rejected.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>User authentication failed because the username or password was invalid.</td>
</tr>
</tbody>
</table>

### FWAUTH_TELNET_USER_AUTH_OK_LS

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Lsys logical-system-name: User username of group group-name at client-address is accepted.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The authenticated user can start accessing protected resources</td>
</tr>
</tbody>
</table>

### FWAUTH_WEBAUTH_FAIL

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>WebAuth user username at client-address is rejected/timed out.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The provided user credentials are not valid.</td>
</tr>
</tbody>
</table>

### FWAUTH_WEBAUTH_FAIL_LS

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Lsys logical-system-name: WebAuth user username at client-address is rejected/timed out.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The provided user credentials are not valid.</td>
</tr>
</tbody>
</table>

### FWAUTH_WEBAUTH_SUCCESS

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>WebAuth user username of group group-name at client-address is accepted.</th>
</tr>
</thead>
</table>
Description: The authenticated user can start accessing protected resources.

Type: Event: This message reports an event, not an error

Severity: info

Facility: LOG_PFE

FWAUTH_WEBAUTH_SUCCESS_LS

System Log Message: Lsys logical-system-name: WebAuth user username of group group-name at client-address is accepted.

Description: The authenticated user can start accessing protected resources.

Type: Event: This message reports an event, not an error

Severity: info

Facility: LOG_PFE
This chapter describes messages with the **GPRSD** prefix. They are generated by the general packet radio service process (gprsd) that integrates with existing GSM networks and offers mobile subscribers with packet switched data services access to corporate networks and the Internet.

### GPRSD_MEMORY_ALLOC_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unable to allocate count bytes of memory</td>
<td>The general packet radio service daemon process (gprsd) could not allocate the indicated number of bytes of memory.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
<td>It is possible that system memory is exhausted.</td>
<td>Increase the amount of RAM in the Routing Engine.</td>
</tr>
</tbody>
</table>

### GPRSD_RESTART_CCFG_READ_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcomponent could not read configuration database</td>
<td>As the general packet radio service daemon process (gprsd) restarted, one or more of its subcomponents could not read its configuration information from the configuration database. The gprsd process restarted regardless without affecting routing performance.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
CHAPTER 48

HNCACHED System Log Messages

This chapter describes messages with the HNCACHED prefix. They are generated by the hostname-caching process (hncached) which stores hostnames in a temporary storage area in order to be able to retrieve them faster.

HNCACHED_HOST_ADDRESS_CHANGED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Detected change in IP addresses for host: hostname</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The hostname-caching process (hostname-cached) detected that the set of IP addresses for the specified hostname changed</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

HNCACHED_NAME_RESOLUTION_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to resolve hostname: hostname (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The hostname-caching process (hostname-cached) failed to resolve the specified hostname for indicated reason</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>1) If the hostname used in config is incorrect, fix it. 2) Ensure that the configured name-server is reachable and is working.</td>
</tr>
</tbody>
</table>
This chapter describes messages with the ICCPD prefix. They are generated by the interchassis communication process (iccpd).

### ICCPD_ASSERT_SOFT

**System Log Message**

Soft assertion failed at line line-number in file 'source-filename' with error "message", but iccpd with PID pid continued running

**Description**
The source code for the interchassis communication process (iccpd) includes internal self-consistency checks. As the iccpd process with the indicated process ID (PID) executed the binary compiled from the indicated source file, a check failed at the indicated line number in the file. The iccpd process created a diagnostic core file for analysis by technical support personnel and continued to run.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Cause**
An internal software failure occurred.

**Action**
Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core file, if requested. For more information, see KB18907.

### ICCPD_OPEN_ERROR

**System Log Message**

error-message: open error on pipe

**Description**
The interchassis communication process (iccpd) could not initialize.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Contact your technical support representative. For more information, see KB18908.
ICCPD_READ_ERROR

- **System Log Message**: Read error on pipe from *client-name*: *reason* (*error-message*)
- **Description**: The interchassis communication process (iccpd) could not read a message on a pipe for the indicated client.
  - **Type**: Error: An error occurred
  - **Severity**: info
  - **Facility**: LOG_DAEMON
  - **Action**: Contact your technical support representative.

ICCPD_WRITE_ERROR

- **System Log Message**: write error on pipe to *client-name*:
- **Description**: The interchassis communication process (iccpd) could not write a message on a pipe for the indicated client.
  - **Type**: Error: An error occurred
  - **Severity**: error
  - **Facility**: LOG_DAEMON
  - **Action**: Contact your technical support representative.
CHAPTER 50

IDP System Log Messages

This chapter describes messages with the **IDP** prefix. They are generated by the Intrusion Detection and Prevention (IDP) process which enforces various attack detection and prevention techniques on network traffic.

**IDP_APPDDOS_APP_ATTACK_EVENT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDOS Attack at epoch-time on ddos-application-name, &lt;source-zone-name&gt;: source-interface-name: source-address: source-port -&gt; destination-zone-name: destination-interface-name: destination-address: destination-port &gt; for protocol-name protocol and service service-name by rule rule-name of rulebase rulebase-name in policy policy-name. attack: repeats repeat-count action action threat-severity threat-severity, connection-hit-rate connection-hit-rate, context-name context-name, hit-rate context-hit-rate, value-hit-rate context-value-hit-rate time-scope time-scope time-count time-count time-period time-period secs, context value: context-value</td>
<td>The application-level distributed denial-of-service (AppDDoS) attack occurred when the number of client transactions exceeded the user-configured connection, context and time binding thresholds</td>
<td>Event: This message reports an event, not an error</td>
<td>info</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**IDP_APPDDOS_APP_ATTACK_EVENT_LS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lsys logical-system-name: DDOS Attack at epoch-time on ddos-application-name, &lt;source-zone-name&gt;: source-interface-name: source-address: source-port -&gt; destination-zone-name: destination-interface-name: destination-address: destination-port &gt; for protocol-name protocol and service service-name by rule rule-name of rulebase rulebase-name in policy policy-name. attack: repeats repeat-count action action threat-severity threat-severity, connection-hit-rate connection-hit-rate, context-name context-name, hit-rate context-hit-rate, value-hit-rate context-value-hit-rate time-scope time-scope time-count time-count time-period time-period secs, context value: context-value</td>
<td>The application-level distributed denial-of-service (AppDDoS) attack occurred when the number of client transactions exceeded the user-configured connection, context and time binding thresholds</td>
<td>Event: This message reports an event, not an error</td>
<td>info</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>
### IDP_APPDDOSS_APP_STATE_EVENT

**System Log Message**

DDOS Application threshold crossed at epoch-time on ddos-application-name, 
<destination-zone-name:destination-interface-name:destination-address:destination-port>
for protocol-name protocol and service service-name in rule rule-name of rulebase
rulebase-name in policy policy-name. repeats repeat-count message: message
context-value: context-value

**Description**
The application-level distributed denial-of-service (AppDDoS) state transition occurred
when the number of application transactions exceeded the user-configured connection
or context thresholds

### IDP_APPDDOSS_APP_STATE_EVENT_LS

**System Log Message**

Lsys logical-system-name: DDOS Application threshold crossed at epoch-time on ddos-application-name, 
<destination-zone-name:destination-interface-name:destination-address:destination-port>
for protocol-name protocol and service service-name in rule rule-name of rulebase
rulebase-name in policy policy-name. repeats repeat-count message: message
context-value: context-value

**Description**
The application-level distributed denial-of-service (AppDDoS) state transition occurred
when the number of application transactions exceeded the user-configured connection
or context thresholds

### IDP_ATTACK_LOG_EVENT_LS

**System Log Message**

Lsys logical-system-name: IDP: At epoch-time, message-type Attack log
<source-address/source-port>destination-address/destination-port> for protocol-name
protocol and service service-name application application-name by rule rule-name of
rulebase rulebase-name in policy policy-name. attack: repeat=repeat-count, action=action,
threat-severity=threat-severity, name=attack-name, NAT
<nat-source-address:nat-source-port>->nat-destination-address:nat-destination-port>,
time-elapsed=elapsed-time, inbytes=inbound-bytes, outbytes=outbound-bytes,
inpackets=inbound-packets, outpackets=outbound-packets,
inf:source-zone-name:source-interface-name->destination-zone-name:destination-interface-name,
packet-log-id: packet-log-id and misc-message message
<table>
<thead>
<tr>
<th><strong>Description</strong></th>
<th>IDP Attack log generated for attack</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>info</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**IDP_COMMIT_COMPLETED**

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>IDP policy commit is complete.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>IDP policy commit has completed. Policy compile and load however may have been a success or failure.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>notice</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**IDP_COMMIT_FAILED**

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>IDP policy commit failed. Exiting from compilation.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>There was an error while trying to commit the active policy in IDPD. Device will continue running the current IDP policy.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**IDP_DAEMON_INIT_FAILED**

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Aborting...A failure was encountered: <code>error-message</code></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>An attempt to start IDP policy daemon failed because an error was encountered during initialization.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>For more information, see <a href="#">KB18909</a>.</td>
</tr>
</tbody>
</table>

**IDP_IGNORED_IPV6_ADDRESSES**

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>IDP ignores IPv6 addresses for the 'rulebase-name'</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>IDP IPv6 support is not enabled for the rulebase.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
</tbody>
</table>
**Severity**  warning

**Facility**  LOG_AUTH

**IDP_INTERNAL_ERROR**

**System Log Message**  Encountered an error(error-message)

**Description**  IDP daemon encountered an internal error

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_AUTH

**Action**  For more information, see KB18910.

**IDP_POLICY_COMPILATION_FAILED**

**System Log Message**  IDP compilation of policy[idp-policy] failed : [reason]

**Description**  IDP policy compiler encountered an error while compiling or packaging the policy. Device will continue running the existing IDP policy.

**Type**  Event: This message reports an event, not an error

**Severity**  error

**Facility**  LOG_AUTH

**IDP_POLICY_LOAD_FAILED**

**System Log Message**  IDP policy loading failed ;policy[idp-policy], detector[idp-detector] ,failure detail[reason]

**Description**  A compiled and optimized IDP policy could not be loaded into IDP engine. Device will continue running the existing IDP policy.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_AUTH

**IDP_POLICY_LOAD_SUCCEEDED**

**System Log Message**  IDP policy[idp-policy] and detector[idp-detector] loaded successfully(message).

**Description**  A compiled and optimized IDP policy was loaded successfully into the IDP engine. All subsequent sessions will be processed as per this new IDP policy.

**Type**  Event: This message reports an event, not an error

**Severity**  notice

**Facility**  LOG_AUTH
**IDP_POLICY_UNLOAD_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to unload IDP policy. reason: reason.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A running IDP policy could not be unloaded from IDP engine. Device will continue running the IDP policy.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**IDP_POLICY_UNLOAD_SUCCEEDED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>IDP policy unloaded successfully.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A running IDP policy was unloaded successfully from the IDP engine.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**IDP_SCHEDULEDUPDATE_START_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to start scheduled update(error: error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The scheduled IDP security package update failed to start. Device will try it again at the next scheduled time</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**IDP_SCHEDULED_UPDATE_STARTED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Scheduled update has started(at timestamp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The scheduled IDP security package update has started.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**IDP_SECURITY_INSTALL_RESULT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>security package install result(status)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>IDP background process has returned the security package install result</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
</tbody>
</table>
Severity    notice
Facility    LOG_AUTH

**IDP_SESSION_LOG_EVENT**

| System Log Message | IDP: at epoch-time, event-name.
| Description        | IDP session threshold crossing event
| Type               | Event: This message reports an event, not an error
| Severity           | info
| Facility           | LOG_PFE

**IDP_SESSION_LOG_EVENT_LS**

| System Log Message | Lsys logical-system-name: IDP: At epoch-time, event-name.
| Description        | IDP session threshold crossing event
| Type               | Event: This message reports an event, not an error
| Severity           | info
| Facility           | LOG_PFE

**IDP_SIGNATURE_LICENSE_EXPIRED**

| System Log Message | IDP Signature update license(ID=feature-id) has expired
| Description        | IDP signature update license key has expired. Signature update may not work any more.
| Type               | Event: This message reports an event, not an error
| Severity           | warning
| Facility           | LOG_AUTH
This chapter describes messages with the JADE prefix. They are generated by the Junos XML protocol authentication process (jade), which authenticates and checks authorization of client applications using the Junos XML management protocol.

**JADE_ATTRIBUTES_TOO_LONG**

**System Log Message**
Attribute number or length in client junoscript tag was too large

**Description**
The JUNOScript client passed too many attributes in the initial <junoscript> tag, or the attributes were too long.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
ANY

**JADE_AUTH_FAILURE**

**System Log Message**
Authentication failed for user 'username': error-message

**Description**
The username or password supplied by the client was incorrect.

**Type**
Error: An error occurred

**Severity**
notice

**Facility**
ANY

**JADE_AUTH_SUCCESS**

**System Log Message**
Authentication succeeded for user 'username'

**Description**
The jade authentication process authenticated the indicated user.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
ANY

**JADE_EXEC_ERROR**

**System Log Message**
CLI xml-mode exec error: error-message
<table>
<thead>
<tr>
<th>Description</th>
<th>The JUNOScript authentication process (jade) could not start because of an internal error.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
</tbody>
</table>

**JADE_IRI_AUTH_SUCCESS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Authentication succeeded for user 'username' over IRI 'routing-instance'</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The jade authentication process authenticated the indicated user over IRI.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>notice</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
</tbody>
</table>

**JADE_PAM_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>PAM error: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The JUNOScript authentication process (jade) could not process the credentials supplied by the client.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
</tbody>
</table>

**JADE_PAM_NO_LOCAL_USER**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to get local username from PAM: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The JUNOScript authentication process (jade) could not obtain a local username while processing the credentials supplied by the client.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
</tbody>
</table>

**JADE_SOCKET_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Socket operation 'operation' failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The indicated socket operation, initiated by the JUNOScript authentication process (jade), failed for the indicated reason.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
</tbody>
</table>
Facility   ANY
This chapter describes messages with the JCS prefix. They are generated by the Juniper Control System (jcsd) process which provides the user interface to the control processes for the management modules and switch modules in the JCS 1200 platform.

### JCS_BBD_LOAD_FAILURE

**System Log Message**  
Blade slot load BBD failure: error-message

**Description**  
The JCS process (jcsd) could not load blade bay data for the specified blade.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### JCS_BBD_LOCAL_MISMATCH

**System Log Message**  
Blade slot BBD error-message mismatch (expected-value != received-value)

**Description**  
The blade bay data retrieved for the specified blade does not match the data loaded during the reboot process. This error usually indicates that blade bay data in the JCS Management Module was changed since the last reboot.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
For more information, see KB18913.

### JCS_BBD_NOT_FOUND

**System Log Message**  
Blade slot bay data not found

**Description**  
Blade bay data was not found for the specified blade.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON
**JCS_BBD_NOT_VALID**

System Log Message: Blade slot BBD is invalid

Description: The blade bay data for the specified blade is invalid.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Action: For more information, see KB18915.

**JCS_BBD_PARSE_ERROR**

System Log Message: Blade slot bay data parse error - error-message

Description: The blade bay data for the specified blade did not parse correctly.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Action: For more information, see KB18916.

**JCS_BBD_PEER_MISMATCH**

System Log Message: Peer blade slot BBD error-message mismatch (expected-value != received-value)

Description: The blade bay data retrieved for the specified peer blade does not match the data retrieved for the local blade. This error indicates that blade bay data in the JCS Management Module was not configured properly.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Action: For more information, see KB18917.

**JCS_BBD_SYSTEM_CONFLICT**

System Log Message: Local BBD error-message (value) conflicts with blade slot

Description: The blade bay data retrieved for the local blade conflicts with another blade in the JCS. This error indicates that blade bay data in the JCS Management Module was not configured properly.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

**JCS_EXT_LINK_STATE**

System Log Message: Switch slot EXT link state is state

Description: The JCS process (jcsd) detects a change of state for the external link of the indicated switch module.

Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_DAEMON

**JCS_INVALID_BANDWIDTH_ERROR**

System Log Message: Invalid bandwidth percent (value)

Description: The specified switch bandwidth is invalid. The bandwidth is defined as a percentage between 1 and 100.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

**JCS_KERNEL_RSD_LINK_DOWN**

System Log Message: Kernel RSD link is DOWN (error-message)

Description: The JCS process (jcsd) has disabled kernel RSD communication for the specified reason.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: For more information, see KB18918.

**JCS_KERNEL_RSD_LINK_ENABLED**

System Log Message: Kernel RSD link is ENABLED (error-message)

Description: The JCS process (jcsd) has verified the blade bay data and enabled kernel RSD communication.

Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_DAEMON
**JCS_MM_COMMUNICATION_ERROR**

*System Log Message*  
MM communication error *(error-message)*

*Description*  
The JCS process (jcsd) could not send an SNMP request to the Management Module because of the indicated error.

*Type*  
Error: An error occurred

*Severity*  
error

*Facility*  
LOG_DAEMON

*Action*  
For more information, see KB18919.

**JCS_MM_COMMUNICATION_OK**

*System Log Message*  
MM communication is OK

*Description*  
The JCS process (jcsd) has established a communication link with the Management Module.

*Type*  
Event: This message reports an event, not an error

*Severity*  
info

*Facility*  
LOG_DAEMON

**JCS_PEER_BLADE_STATE**

*System Log Message*  
Peer blade slot is state

*Description*  
The JCS process (jcsd) detects a change of state for the indicated blade.

*Type*  
Event: This message reports an event, not an error

*Severity*  
info

*Facility*  
LOG_DAEMON

**JCS_READ_BANDWIDTH_ERROR**

*System Log Message*  
Read bandwidth error *(error-code)*

*Description*  
The indicated error occurred when attempting to read the current switch bandwidth.

*Type*  
Error: An error occurred

*Severity*  
error

*Facility*  
LOG_DAEMON

*Action*  
For more information, see KB18920.

**JCS_READ_BBD_ERROR**

*System Log Message*  
Read blade bay data *(error=error-code)*
<table>
<thead>
<tr>
<th>Description</th>
<th>The indicated error occurred when attempting to read the current blade bay data via a sysctl call.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see <a href="#">KB18921</a>.</td>
</tr>
</tbody>
</table>

### JCS_RSD_LINK_STATE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Switch slot RSD link state is state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The JCS process (jcsd) detects a change of state for the RSD link of the indicated switch module.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### JCS_SWITCH_BANDWIDTH_CONFIG

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Switch slot bandwidth value1 percent (value2 KBPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated JCS Switch Module has changed the bandwidth configuration to the specified value.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### JCS_SWITCH_COMMUNICATION_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Switch slot communication error (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The JCS process (jcsd) could not send an SNMP request to the indicated Switch Module because of the indicated error.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see <a href="#">KB18922</a>.</td>
</tr>
</tbody>
</table>

### JCS_SWITCH_COMMUNICATION_OK

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Switch slot communication is OK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The JCS process (jcsd) has established a communication link with the indicated Switch Module.</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>info</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the **JDIAMETERD** prefix. They are generated by the jdiameter process (jdiameterd). Jdiameter is an open source software implementation of the Diameter Base Protocol that is written in Java.

### JDIAMETERD_FUNC_HSHAKE_FAIL

**System Log Message**  
Application *diameter-function* cannot generate handshake, disconnecting  

**Description**  
The Diameter process (jdiameterd) failed to generate handshake message to the process that implements the Diameter-function. The connection was closed so that a new connection with full resynchronization could be established.  

**Type**  
Error: An error occurred  

**Severity**  
error  

**Facility**  
LOG_DAEMON

### JDIAMETERD_FUNC_LOCACCEPT_NFOUND

**System Log Message**  
Path *pathname* does not match any application  

**Description**  
The Diameter process (jdiameterd) rejected a RE function side connection because there is no matching diameter-function.  

**Type**  
Error: An error occurred  

**Severity**  
error  

**Facility**  
LOG_DAEMON

### JDIAMETERD_FUNC_NSCK_LISTEN_FAIL

**System Log Message**  
Unable to listen on internal-ip  

**Description**  
The Diameter process (jdiameterd) is unable to listen on the internal ip socket for function side connections.  

**Type**  
Error: An error occurred  

**Severity**  
error  

**Facility**  
LOG_DAEMON
JDIAMETERD_FUNC_OUT_OF_SYNC

System Log Message  Application diameter-function is out of sync, disconnecting
Description         The Diameter process (jdiameterd) was out of sync with the process that implements
                    the Diameter function. The connection was closed so that a new connection with full
                    resynchronization could be established.
Type                Error: An error occurred
Severity            error
Facility            LOG_DAEMON

JDIAMETERD_FUNC_PICACCEPT_NFOUND

System Log Message  Port remote-port does not match any application
Description         The Diameter process (jdiameterd) rejected a PIC function side connection because there
                    is no matching diameter-function.
Type                Error: An error occurred
Severity            error
Facility            LOG_DAEMON

JDIAMETERD_FUNC_TOO_MANY_BADE2ES

System Log Message  Application diameter-function has too many bad end-to-end-ids, disconnecting
Description         A daemon implementing diameter function, sent too many messages with bad
                    end-to-end-ids the connection will be closed, so a new connection with full
                    resynchronization could be established.
Type                Error: An error occurred
Severity            error
Facility            LOG_DAEMON

JDIAMETERD_FUNC_USCK_LISTEN_FAIL

System Log Message  Unable to listen on pathname
Description         The Diameter process (jdiameterd) is unable to listen on the unix socket for function side
                    connections.
Type                Error: An error occurred
Severity            error
Facility            LOG_DAEMON
This chapter describes messages with the JIVED prefix. They are generated by the mag-service process (jived).

### JIVED_ALREADY_RUNNING

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Another copy of this program is running</td>
<td>Another instance of the mag-service process (jived) is already running. Only one instance can run at a time.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### JIVED_EVLIB_FUNC_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>function-name: event-function-name: reason</td>
<td>A function in the event library used by the mag-service process (jived) failed with the indicated error.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
</tbody>
</table>

### JIVED_INITIATE_CONN_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>function-name: aborting, failed to connect to mgd.</td>
<td>The mag-service process (jived) failed to initiate the connection to RE.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>System Log Message</td>
<td>JIVED_INIT_FAILED</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Description</td>
<td>The mag-service process (jived) failed to initialize.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>JIVED_NOT_ROOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The mag-service process (jived) must be run with root privileges.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>jived being run without root privilege</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>JIVED_PIDFILE_LOCK_FAILED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The mag-service process (jived) failed to lock the file that records its process ID (PID). The lock file is used to prevent multiple instances of the jived process from running simultaneously.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Another instance of the jived process is already running.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>JIVED_PIDFILE_UPDATE_FAILED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The mag-service process (jived) failed to update the file that records its process ID (PID). The lock file is used to prevent multiple instances of the jived process from running simultaneously.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
</tbody>
</table>
Facility: LOG_DAEMON
Cause: An internal software failure occurred.

**JIVED_SNMP_SEND_TRAP_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>error-message: trap</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The mag-service process (jived) failed in the attempt to send an SNMP trap</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the **JPTSPD** prefix. They are generated by the packet-triggered subscriber process (jptspd) which creates and manages packet-triggered subscriber interfaces. A packet-triggered subscriber interface is created when the router receives a packet with an IP source address that does not match any entries in the demultiplexer table. When the router detects an unmatched packet, it generates a trigger event that determines whether to create a dynamic subscriber interface or configure an existing interface.

### JPTSPD_INIT_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPTSPD failed to initialize</td>
<td>The packet triggered subscriber process (jptspd) initialization failed.</td>
</tr>
</tbody>
</table>

- **Type**: Error: An error occurred  
- **Severity**: error  
- **Facility**: ANY  
- **Cause**: One possible cause is that the system is out of memory.  
- **Action**: Contact your technical support representative.

### JPTSPD_OUT_OF_MEMORY

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out of memory</td>
<td>The packet triggered subscriber process (jptspd) could not dynamically allocate memory.</td>
</tr>
</tbody>
</table>

- **Type**: Error: An error occurred  
- **Severity**: error  
- **Facility**: ANY  
- **Cause**: A software bug caused a memory leak, or too many subscriber and service sessions.  
- **Action**: Contact your technical support representative.
<table>
<thead>
<tr>
<th>Message Type</th>
<th>Description</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPTSPD_PIC_CONNECTED</td>
<td>The packet triggered subscriber process (jptspd) connected to a PIC.</td>
<td>info</td>
<td>ANY</td>
</tr>
<tr>
<td>JPTSPD_PIC_DISCONNECTED</td>
<td>The packet triggered subscriber process (jptspd) disconnected to a PIC.</td>
<td>info</td>
<td>ANY</td>
</tr>
<tr>
<td>JPTSPD_SRC_FAST_SYNC_ABORT</td>
<td>The packet triggered subscriber process (jptspd) aborted fast synchronization with SRC.</td>
<td>info</td>
<td>ANY</td>
</tr>
<tr>
<td>JPTSPD_SRC_FAST_SYNC_DONE</td>
<td>The packet triggered subscriber process (jptspd) finished fast synchronization with SRC.</td>
<td>info</td>
<td>ANY</td>
</tr>
<tr>
<td>JPTSPD_SRC_FAST_SYNC_START</td>
<td>The packet triggered subscriber process (jptspd) started fast synchronization with SRC.</td>
<td>info</td>
<td>ANY</td>
</tr>
</tbody>
</table>
JPTSPD_SRC_FULL_SYNC_ABORT

System Log Message  JPTSPD full synchronization was aborted partition-name
Description  The packet triggered subscriber process (jptspd) aborted full synchronization with SRC.
Type  Event: This message reports an event, not an error
Severity  info
Facility  ANY
Cause  One possible cause is that the connection between jptspd and SRC is down.

JPTSPD_SRC_FULL_SYNC_DONE

System Log Message  JPTSPD full synchronization was done partition-name
Description  The packet triggered subscriber process (jptspd) finished full synchronization with SRC.
Type  Event: This message reports an event, not an error
Severity  info
Facility  ANY

JPTSPD_SRC_FULL_SYNC_START

System Log Message  JPTSPD full synchronization started partition-name
Description  The packet triggered subscriber process (jptspd) started full synchronization with SRC.
Type  Event: This message reports an event, not an error
Severity  info
Facility  ANY
CHAPTER 56

JSRPD System Log Messages

This chapter describes messages with the JSRPD prefix. They are generated by the Juniper Services Redundancy Protocol (jsrpd) process, which controls chassis clustering.

**JSRPD_DAEMONIZE_FAILED**

System Log Message: Aborting, unable to run in the background as a daemon: error-message

Description: The Juniper Services Redundancy Protocol process (JSRPD) failed to create a version of itself to run in the background.

Type: Error: An error occurred

Severity: emergency

Facility: LOG_DAEMON

Action: For more information, see KB18923.

**JSRPD_DUPLICATE**

System Log Message: Another copy of this program is running

Description: The Juniper Services Redundancy Protocol process (JSRPD) detected that another version of itself is already running.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

**JSRPD_NODE_STATE_CHANGE**

System Log Message: Node chassis-id state due to reason

Description: The Juniper Services Redundancy Protocol process (JSRPD) detected an event, such as failover, that caused the state of the chassis cluster node to change due to the reason indicated in the log.

Type: Event: This message reports an event, not an error

Severity: error
Facility LOG_DAEMON

Cause A link failure occurred and the secondary node is disabled.

Cause The secondary node has recovered from link failure and is being rebooted to recover from the disabled state.

Action Contact your technical support representative.

**JSRPD_NOT_ROOT**

System Log Message Must be run as root

Description The Juniper Services Redundancy Protocol process (JSRPD) can be instantiated only by the user with root privileges.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

**JSRPD_PID_FILE_LOCK**

System Log Message Unable to lock PID file: *error-message*

Description The Juniper Services Redundancy Protocol process (JSRPD) failed to lock the PID file, which serves to prevent multiple instances of the process from running simultaneously.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

**JSRPD_PID_FILE_UPDATE**

System Log Message Unable to update process PID file: *error-message*

Description The Juniper Services Redundancy Protocol process (JSRPD) failed to update the PID file, which serves to prevent multiple instances of the process from running simultaneously.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

**JSRPD_REDUNDANCY_MODE_CHANGE**

System Log Message Redundancy mode change will not be effective until all nodes in the cluster are rebooted simultaneously

Description The Juniper Services Redundancy Protocol process (JSRPD) detected a change in chassis cluster redundancy mode. The new mode is not effective until all nodes in the cluster are rebooted.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**JSRPD_REDUNDANCY_MODE_MISMATCH**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Change in HA redundancy mode detected. Please reboot all nodes in the cluster simultaneously!!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Juniper Services Redundancy Protocol process (JSRPD) detected a change in the chassis cluster redundancy mode configuration and detected that only some (not all) of the nodes rebooted. The new mode is not effective until all nodes in the cluster are rebooted.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**JSRPD_RG_STATE_CHANGE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Redundancy-group rg-id transitioned from 'old-state' to 'new-state' state due to reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Juniper Services Redundancy Protocol process (JSRPD) detected an event that caused the state of the chassis cluster redundancy group to change due to the reason indicated in the log.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**JSRPD_SET_CS_MON_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Cold-sync Monitor failed for redundancy-group rg-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Juniper Services Redundancy Protocol process (JSRPD) detected cold-sync monitoring failure for a redundancy group.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**JSRPD_SET_HW_MON_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>hw-mon failed for redundancy-group rg-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Juniper Services Redundancy Protocol process (JSRPD) detected hardware failures.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
Facility LOG_DAEMON

**JSRPD_SET_INTF_MON_FAILURE**

System Log Message Interface Monitor failed for redundancy-group *rg-id*
Description The Juniper Services Redundancy Protocol process (JSRPD) detected interface monitoring failure for a redundancy group.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

**JSRPD_SET_IP_MON_FAILURE**

System Log Message IP Monitor failed for redundancy-group *rg-id*
Description The Juniper Services Redundancy Protocol process (JSRPD) detected IP address monitoring failure for a redundancy group.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

**JSRPD_SET_LOOPBACK_MON_FAILURE**

System Log Message Loopback Monitor failed for redundancy-group *rg-id*
Description The Juniper Services Redundancy Protocol process (JSRPD) detected data path loopback monitoring failure for a redundancy group.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

**JSRPD_SET_MBUF_MON_FAILURE**

System Log Message Memory buffer monitor failed for redundancy-group *rg-id*
Description The Juniper Services Redundancy Protocol process (JSRPD) detected memory buffer monitoring failure for a redundancy group.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

**JSRPD_SET_NEXTHOP_MON_FAILURE**

System Log Message Fabric nexthop monitor failed for redundancy-group *rg-id*
The Juniper Services Redundancy Protocol process (JSRPD) detected fabric nexthop monitoring failure for a redundancy group.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

**JSRPD_SET_NPC_MON_FAILURE**

System Log Message: NPC Monitor failed for redundancy-group rg-id

Description: The Juniper Services Redundancy Protocol process (JSRPD) detected Network Processing Card (NPC) monitoring failure for a redundancy group.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

**JSRPD_SET_OTHER_INTF_MON_FAIL**

System Log Message: Interface Monitor failed on other node for redundancy-group rg-id

Description: The Juniper Services Redundancy Protocol process (JSRPD) detected interface monitoring failure on the other node for a redundancy group.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

**JSRPD_SET_SPU_MON_FAILURE**

System Log Message: SPU Monitor failed for redundancy-group rg-id

Description: The Juniper Services Redundancy Protocol process (JSRPD) detected Services Processing Unit (SPU) monitoring failure for a redundancy group.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

**JSRPD_SOCKET_CREATION_FAILURE**

System Log Message: Socket creation (server) failed unexpectedly error-message.

Description: The Juniper Services Redundancy Protocol process (JSRPD) failed to create a socket.

Type: Error: An error occurred
Severity: error
<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_DAEMON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>For more information, see KB18925.</td>
</tr>
</tbody>
</table>

**JSRPD_SOCKET_LISTEN_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Socket listen (server) failed unexpectedly. error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Juniper Services Redundancy Protocol process (JSRPD) failed to listen on a socket.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB18926.</td>
</tr>
</tbody>
</table>

**JSRPD_SOCKET_RECV_HB_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Socket reception of heartbeat from failed unexpectedly error-message.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Juniper Services Redundancy Protocol process (JSRPD) failed to receive heartbeat.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB18927.</td>
</tr>
</tbody>
</table>

**JSRPD_UNSET_CS_MON_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Cold-sync Monitor failure recovered for redundancy-group rg-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous cold-sync monitoring failure no longer exists for a redundancy group.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**JSRPD_UNSET_HW_MON_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>hw-mon failure recovered for redundancy-group rg-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous hardware failures no longer exists for a redundancy group.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>JSRPD_UNSET_INTF_MON_FAILURE</td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Interface Monitor failure recovered for redundancy-group rg-id</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous interface monitoring failure no longer exists for a redundancy group.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JSRPD_UNSET_IP_MON_FAILURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JSRPD_UNSET_LOOPBACK_MON_FAILURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JSRPD_UNSET_MBUF_MON_FAILURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JSRPD_UNSET_NEXTHOP_MON_FAILURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
</tbody>
</table>
JUNOS System Log Messages Reference

**JSRPD_UNSET_NPC_MON_FAILURE**

**System Log Message**: NPC Monitor failure recovered for redundancy-group *rg-id*

**Description**: The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous Network Processing Card (NPC) monitoring failure no longer exists for a redundancy group.

**JSRPD_UNSET_OTHER_INTF_MON_FAIL**

**System Log Message**: Interface Monitor failure recovered on other node for redundancy-group *rg-id*

**Description**: The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous interface monitoring failure on the other node no longer exists for a redundancy group.

**JSRPD_UNSET_SPU_MON_FAILURE**

**System Log Message**: SPU Monitor failure recovered for redundancy-group *rg-id*

**Description**: The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous Services Processing Unit (SPU) monitoring failure no longer exists for a redundancy group.

**JSRPD_USAGE**


**Description**: The Juniper Services Redundancy Protocol process (JSRPD) was invoked with incorrect options.

**Type**

Error: An error occurred

**Severity**

error

**Facility**

LOG_DAEMON
Facility LOG_DAEMON
This chapter describes messages with the KMD prefix. They are generated by the key management process (kmd), which provides IP Security (IPSec) authentication services for encryption PICs.

**KMD_CFG_IF_ID_POOL_NOT_FOUND**

**System Log Message**  Unable to allocate logical interface for IPSec interface from pool pool-name: pool not found

**Description**  The key management process (kmd) maintains pools of logical interfaces for assignment to IP Security (IPSec) interfaces. It could not allocate a logical interface, because it could not access the indicated pool.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_AUTH

**KMD_CFG_IF_ID_POOL_NO_ENTRY**

**System Log Message**  Unable to return logical interface interface-name INTERFACE-UNIT to pool pool-name: no entry in pool for interface

**Description**  The key management process (kmd) maintains pools of logical interfaces for assignment to IP Security (IPSec) interfaces. It could not return the indicated logical interface to the indicated pool, because there was no entry for the interface in the pool.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_AUTH

**KMD_CFG_IF_ID_POOL_NO_INTERFACE**

**System Log Message**  Unable to allocate logical interface for IPSec interface from pool pool-name: no interfaces available

**Description**  The key management process (kmd) maintains pools of logical interfaces for assignment to IP Security (IPSec) interfaces. It could not allocate a logical interface, because none were available in the indicated pool.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**KMD_CFG_IF_ID_POOL_RETURN_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to return logical interface to pool <em>pool-name</em>: pool not found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The key management process (kmd) maintains pools of logical interfaces for assignment to IP Security (IPSec) interfaces. It could not return a logical interface to the indicated pool, because it could not access the pool.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**KMD_DPD_FAILOVER_MANUAL_TUNNEL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Tunnel <em>tunnel-name</em> did not fail over: it is manual type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An IP Security (IPSec) tunnel normally fails over to its backup when the key management process (kmd) detects a dead peer. Failover was not attempted for the indicated tunnel, which is configured as a manual type and so does not support failover.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**KMD_DPD_FAILOVER_MAX_ATTEMPTS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Number of failover attempts exceeded limit <em>count</em> for tunnel <em>tunnel-name</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An IP Security (IPSec) tunnel fails over to its backup when the key management process (kmd) detects a dead peer. The key management process (kmd) stopped making failover attempts for the indicated tunnel, because the number of attempts exceeded the indicated limit configured for Internet Key Exchange (IKE) Phase 1 negotiations.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Cause</td>
<td>Failover attempts can fail repeatedly if both the primary and backup peers are unreachable during the failover.</td>
</tr>
</tbody>
</table>

**KMD_DPD_FAILOVER_NO_ACTIVE_PEER**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Tunnel <em>tunnel-name</em> did not fail over: no active peer configured</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An IP Security (IPSec) tunnel normally fails over to its backup when the key management process (kmd) detects a dead peer. Failover was not attempted because the configuration for the indicated tunnel does not include information about an active peer.</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**KMD_DPD_FAILOVER_NO_BACKUP_PEER**

| System Log Message | Tunnel tunnel-name did not fail over: no backup peer configured |
| Description | An IP Security (IPSec) tunnel normally fails over to its backup when the key management process (kmd) detects a dead peer. A failover attempt failed when the kmd process found that the configuration for the indicated tunnel does not include information about a backup peer. |
| Type | Error: An error occurred |
| Severity | error |
| Facility | LOG_AUTH |

**KMD_DPD_FAILOVER_NO_TUNNEL_CFG**

| System Log Message | Tunnel did not fail over: tunnel configuration not found |
| Description | An IP Security (IPSec) tunnel normally fails over to its backup when the key management process (kmd) detects a dead peer. Failover was not attempted because there was no configuration information for the tunnel. |
| Type | Error: An error occurred |
| Severity | error |
| Facility | LOG_AUTH |

**KMD_DPD_REMOTE_ADDRESS_CHANGED**

| System Log Message | Remote peer address for tunnel tunnel-name changed from old-address to new-address |
| Description | The remote peer address in the configuration for the indicated tunnel changed to a new value as indicated. |
| Type | Event: This message reports an event, not an error |
| Severity | notice |
| Facility | LOG_AUTH |

**KMD_PM_DUPLICATE_LIFE_DURATION**

| System Log Message | Duplicate SA life duration value given in Quick Mode notification from remote-address:remote-port |
Description: The IKE Quick Mode notification message from the indicated remote gateway and remote port contains duplicate value for life duration. Hence Quick Mode notification payload is dropped.

Type: Error: An error occurred
Severity: error
Facility: LOG_SYSLOG

KMD_PM_IKE_SERVER_LOOKUP_FAILED

System Log Message: No IKE server to connect Phase-1 to remote-peer

Description: The IKE Phase-1 negotiation with indicated remote gateway address failed because there is no corresponding IKE server running locally.

Type: Error: An error occurred
Severity: error
Facility: LOG_SYSLOG

KMD_PM_IKE_SERVER_NOT_FOUND

System Log Message: Failed to connect to remote-address:remote-port as there is no IKE server context available in instance service-set

Description: There is no local IKE server context in the indicated service set, hence failed to send the SPI delete notification request.

Type: Error: An error occurred
Severity: error
Facility: LOG_SYSLOG

KMD_PM_IKE_SRV_NOT_FOUND_DELETE

System Log Message: Unable to notify remote peer remote-address:remote-port that SPI was deleted: no IKE server for service set service-set

Description: The indicated service set did not have a local Internet Key Exchange (IKE) server context for the indicated remote peer (address and port). As a result, notification about deletion of a security parameter index (SPI) was not sent.

Type: Error: An error occurred
Severity: error
Facility: LOG.Auth

KMD_PM_ILLEGAL_REMOTE_GW_ID

System Log Message: Aborting Phase-1 negotiation. Cannot initiate negotiation with invalid Phase-1 remote remote-peer in instance: service-set
The specified remote gateway identity is neither an IPv4 address nor an IPv6 address. Hence Phase-1 negotiation can not be started.

**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_SYSLOG

### KMD_PM_INCONSISTENT_P2_IDS

**System Log Message**: Inconsistent phase-2 (IPsec) identities, local : initiator = local-initiator responder = local-responder remote : initiator = remote-initiator responder = remote-responder  
**Description**: Initiator and responder identities at the local end are inconsistent with the remote peer's identities. Quick Mode negotiation is aborted.

**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_SYSLOG

### KMD_PM_INVALID_LIFE_TYPE

**System Log Message**: Invalid life type units-type found in the Quick Mode notification from remote-address:remote-port  
**Description**: The IKE Quick Mode notification message from the indicated remote gateway and remote port contains invalid life type. Second and Kilobytes are the only supported life types currently. Hence Quick Mode notification payload is dropped.

**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_SYSLOG

### KMD_PM_NO_LIFETIME

**System Log Message**: Duplicate life time payloads present in the notification from remote-address:remote-port. Dropping the notification.  
**Description**: The IKE Quick Mode notification message from the indicated remote gateway and remote port contains two life type fields and there is no life duration field. Quick Mode notification is being dropped since it has insufficient information about life duration.

**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_SYSLOG

### KMD_PM_NO_LIFE_TYPE

**System Log Message**: Quick mode notification from remote-address:remote-port contains lifetime duration without corresponding SA lifetime payload.
Description: The IKE Quick Mode notification message from the indicated remote gateway and remote port does not contain life type, hence existing life duration cannot be interpreted to be of a particular life type. Quick Mode notification payload is dropped.

Type: Error: An error occurred
Severity: error
Facility: LOG_SYSLOG

KMD_PM_NO_PROPOSAL_FOR_PHASE1

System Log Message: Aborting Phase-1 negotiation. No proposal found to initiate negotiation between local:local-peer and remote:remote-peer in instance:service-set
Description: It is not possible to start the Phase-1 negotiation to the indicated remote gateway because there is no proposal present.

Type: Error: An error occurred
Severity: error
Facility: LOG_SYSLOG

KMD_PM_NO_SPD_PHASE1_FUNC_PTR

System Log Message: Phase-1 SPD handler is not registered in instance:service-set
Description: Phase-1 negotiation can not be initiated as initialization function failed.

Type: Error: An error occurred
Severity: error
Facility: LOG_SYSLOG

KMD_PM_P1_POLICY_LOOKUP_FAILURE

System Log Message: Policy lookup for Phase-1 [negotiation-role] failed for p1_local=local-peer
p1_remote=remote-peer
Description: The IKE Phase-1 negotiation with the indicated remote gateway address failed because there is no IKE policy configured for use against the indicated remote gateway.

Type: Error: An error occurred
Severity: error
Facility: LOG_SYSLOG

KMD_PM_P2_POLICY_LOOKUP_FAILURE

System Log Message: Policy lookup for Phase-2 [negotiation-role] failed for p1_local=local-peer
p1_remote=remote-peer p2_local=local-prefix p2_remote=remote-prefix
Description: The IKE Phase-2 negotiation with the indicated remote gateway address failed because the traffic selectors proposed by the remote gateway address do not match any of the
policies configured for the indicated local gateway address. The proposed traffic selectors are indicated by the Phase-2 local and remote IP prefixes.

**KMD_PM_PHASE1_GROUP_UNSPECIFIED**

**System Log Message**  
Used DH group 1 because Phase 1 proposal did not specify group

**Description**  
The key management process (kmd) assigned Diffie-Hellman (DH) group 1 to an Internet Key Exchange (IKE) Phase 1 proposal because no group was specified.

**KMD_PM_PHASE1_POLICY_SEARCH_FAIL**

**System Log Message**  
No ike-policy found for ike-access-profile: access-profile, instance:service-set

**Description**  
The key management process (kmd) could not retrieve the Phase 1 policy referenced by the indicated Internet Key Exchange (IKE) access profile for the indicated dynamic-endpoint service set.

**KMD_PM_PHASE2_POLICY_LOOKUP_FAIL**

**System Log Message**  
Unable to retrieve policy for Phase 2 from negotiation-role (Phase 1 local peer local-peer, remote peer remote-peer; Phase 2 local peer local-prefix, remote peer remote-prefix)

**Description**  
The key management process (kmd) could not retrieve a policy from the indicated participant to use during Internet Key Exchange (IKE) Phase 2 negotiation for the indicated local and remote peers. The traffic selectors proposed by the remote peer (represented by the indicated Phase 2 IP prefixes) do not match any local peer policies.

**KMD_PM_PROTO_INVALID**

**System Log Message**  
Invalid protocol protocol-id was negotiated for SA sa-name
During Internet Key Exchange (IKE) Phase 2, the indicated protocol was chosen for the indicated security association (SA). It is not a valid value, so the SA was not established.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_AUTH

**KMD_PM_PROTO_IPCOMP_UNSUPPORTED**

**System Log Message** Unsupported IPComp protocol was negotiated for SA sa-name

**Description** During Internet Key Exchange (IKE) Phase 2, the IP Payload Compression Protocol (IPComp) was chosen for the indicated security association (SA). IPComp is not supported, so the SA was not established.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_AUTH

**KMD_PM_PROTO_ISAKMP_RESV_UNSUPP**

**System Log Message** Unsupported protocol ISAKMP or RESERVED was negotiated for SA sa-name

**Description** During Internet Key Exchange (IKE) Phase 2, either Internet Security Association and Key Management Protocol (ISAKMP) or the value RESERVED was chosen as the protocol for the indicated security association (SA). They are not supported values, so the SA was not established.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_AUTH

**KMD_PM_SA_CFG_NOT_FOUND**

**System Log Message** SA sa-name configuration not found

**Description** The key management process (kmd) could not retrieve configuration information for the indicated security association (SA), and so could not record the values that were negotiated for the SA during Internet Key Exchange (IKE) Phase 2. The SA was not established.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_AUTH
**KMD_PM_SA_ESTABLISHED**

**System Log Message**
Local gateway: `local-address`, Remote gateway: `remote-address`, Local ID: `local-initiator`, Remote ID: `remote-responder`, Direction: `argument1`, SPI: `index1`, AUX-SPI: `index2`, Mode: `mode`, Type: `type`

**Description**
A security association has been established

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
LOG_SYSLOG

---

**KMD_PM_SA_INDEX_GEN_FAILED**

**System Log Message**
Unable to generate pair index for SA `sa-name` in service set `service-set`

**Description**
The key management process (kmd) could not generate a pair index for the indicated security association (SA) in the indicated service set. The kmd process canceled Internet Key Exchange (IKE) Phase 2 negotiation.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_AUTH

---

**KMD_PM_SA_PEER_ABSENT**

**System Log Message**
No active peer found in tunnel configuration block `sa-name`

**Description**
Failed to find active peer information in the tunnel configuration block. Hence unable to send SA delete notifications to the peer.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_SYSLOG

---

**KMD_PM_SA_PEER_NOT_FOUND**

**System Log Message**
Unable to find active peer for SA `sa-name`

**Description**
The key management process (kmd) could not retrieve information about an active peer from the configuration for the indicated security association (SA). As a result, it could not notify peers that an SA was deleted.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_AUTH
### KMD_PM_SPI_DELETE_REJECT

**System Log Message**
IKE Phase-2 delete: in instance `service-set` rejecting request to delete SPI size `size
size u != 4` Local gateway `local-address:local-port`, Remote gateway `remote-address:remote-port`  

**Description**
The SPI size in the delete notification is invalid. Hence delete request is rejected. Quick Mode notification payload is dropped.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
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</thead>
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<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_SYSLOG</td>
</tr>
</tbody>
</table>

### KMD_PM_UNEQUAL_PAYLOAD_LENGTH

**System Log Message**
Inconsistent payload lengths in Quick Mode responder life time notification from `remote-address:remote-port`  

**Description**
IKE Quick Mode notification is dropped because of unequal payload length received in the message.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
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</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_SYSLOG</td>
</tr>
</tbody>
</table>

### KMD_PM_UNINITIALISE_ERROR

**System Log Message**
Invalid policy manager handle to uninitialize `service-set`  

**Description**
Failed to uninitialize the Policy manager object while deleting the indicated service set.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_SYSLOG</td>
</tr>
</tbody>
</table>

### KMD_PM_UNINITIALIZE_FAILED

**System Log Message**
Unable to uninitialize service set `service-set`: invalid policy manager handle  

**Description**
The key management process could not delete the indicated service set, because lack of a valid handle prevented the kmd process from uninitializing the policy manager object for the service set.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Event Code</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>KMD_PM_UNKNOWN_P1_IDENTITIES</td>
<td>Phase-1 negotiation can not be started because either the local gateway identity or the remote gateway identity is unknown.</td>
</tr>
<tr>
<td>KMD_PM_UNKNOWN_PHASE2_ENTITIES</td>
<td>Unable to initiate Phase-2 negotiation because of unknown local and remote traffic selectors in the indicated security association configuration block. For Adaptive Service PIC, the security association configuration block refers to the tunnel configured under a service set with a given rule name and term name.</td>
</tr>
<tr>
<td>KMD_PM_UNKNOWN_QM_NOTIFICATION</td>
<td>The notification message sent by the indicated remote gateway and remote port is not recognized. Hence Quick Mode notification payload is dropped.</td>
</tr>
<tr>
<td>KMD_PM_UNSUPPORTED_KEY</td>
<td>The specified key type is unsupported. Public/Private and Pre-shared key are are the only types supported presently.</td>
</tr>
</tbody>
</table>
### KMD_PM_UNSUPPORTED_MODE

**System Log Message**
New group mode not supported currently

**Description**
The IKE New Group mode negotiations failed, because this is not a supported feature currently.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_SYSLOG

### KMD_SNMP_EXTRA_RESPONSE

**System Log Message**
PIC pic-slot sent additional response after reply to SNMP query: error-message

**Description**
The indicated PIC sent an additional unexpected message after it responded to a request from the key management process (kmd) for Simple Network Management Protocol (SNMP) statistics about IP Security (IPSec) security associations (SAs). As a result, the kmd process discarded the initial response.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_AUTH

### KMD_SNMP_FATAL_ERROR

**System Log Message**
Fatal SNMP error occurred: error-message

**Description**
The key management process (kmd) could not retrieve Simple Network Management Protocol (SNMP) statistics about IP Security (IPSec) security associations (SAs), because the indicated fatal SNMP error occurred.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_AUTH

### KMD_SNMP_MALLOC_FAILED

**System Log Message**
Unable to allocate memory for reply buffer; SNMP query to PIC pic-slot failed

**Description**
The key management process (kmd) could not allocate memory for the buffer it uses to store Simple Network Management Protocol (SNMP) statistics about IP Security (IPSec) security associations (SAs). As a result, it could not retrieve statistics from the indicated PIC.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_AUTH
KMD_SNMP_PIC_CONNECTION_FAILED

System Log Message
Unable to connect to PIC pic-slot; SNMP query failed

Description
The key management process (kmd) could not open a connection to the indicated PIC. As a result, it could not retrieve Simple Network Management Protocol (SNMP) statistics about IP Security (IPSec) security associations (SAs).

Type Error: An error occurred
Severity error
Facility LOG_AUTH

KMD_SNMP_PIC_NO_RESPONSE

System Log Message
PIC pic-slot did not respond to SNMP query: error-message

Description
The indicated PIC did not respond to a request from the key management process (kmd) for Simple Network Management Protocol (SNMP) statistics about IP Security (IPSec) security associations (SAs).

Type Error: An error occurred
Severity error
Facility LOG_AUTH
Action For more information, see KB18933.

KMD_SNMP_PIC_SLOT_NOT_FOUND

System Log Message
Unable to retrieve slot information for PIC pic-slot; SNMP query failed

Description
The key management process (kmd) could not retrieve information about the slot housing the indicated PIC. As a result, it could not retrieve Simple Network Management Protocol (SNMP) statistics about IP Security (IPSec) security associations (SAs) from the PIC.

Type Error: An error occurred
Severity error
Facility LOG_AUTH

KMD_VPN_DFBIT_STATUS_MSG

System Log Message
The DF-BIT for VPN vpn-name has been set to argument.

Description
VPN DF bit status has been set.

Type Event: This message reports an event, not an error
Severity info
Facility LOG_DAEMON
### KMD_VPN_DOWN_ALARM_USER

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>VPN vpn-name from remote-address is down.</td>
<td>Notification to user that VPN monitor detects IPSec SA is down.</td>
<td>Event: This message reports an event, not an error</td>
<td>info</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### KMD_VPN_PV_LIFETIME_CHANGED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Config key lifetime changed</td>
<td>The key lifetime has been changed by a user.</td>
<td>Event: This message reports an event, not an error</td>
<td>info</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### KMD_VPN_PV_PHASE1

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKE Phase-1 Failure: source-address [spi=destination-address, src_ip=error-message, dst_ip=data]</td>
<td>The threshold value set has been reached due to several ike-phase1 failures that have occurred.</td>
<td>Event: This message reports an event, not an error</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### KMD_VPN_PV_PHASE2

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKE Phase-2 Failure: source-address [spi=destination-address, src_ip=error-message, dst_ip=data]</td>
<td>The threshold value set has been reached due to several ike-phase2 failures that have occurred.</td>
<td>Event: This message reports an event, not an error</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### KMD_VPN_PV_PSK_CHANGED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-shared key changed</td>
<td>The pre-shared key has been changed by a user.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Type**  Event: This message reports an event, not an error  
**Severity**  info  
**Facility**  LOG_DAEMON

### KMD_VPN_UP_ALARM_USER

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VPN vpn-name from remote-address is up.</td>
<td>Notification to user that VPN monitor detects IPSec SA is up.</td>
</tr>
</tbody>
</table>

**Type**  Event: This message reports an event, not an error  
**Severity**  info  
**Facility**  LOG_DAEMON
This chapter describes messages with the L2ALD prefix. They are generated by the Layer 2 address learning process (l2ald), which supports the dynamic acquisition of information about media access control (MAC) addresses in a Layer 2 bridge environment.

L2ALD_BD_NAME_RESTRICTION

System Log Message: Reserved character '/' is not allowed as part of bridge-domain(bridge-domain) name. Any firewall filter applied to this bridge-domain might fail to work.

Description: firewall filter will not work for restricted BD name

Type: Error: An error occurred

Severity: warning

Facility: LOG_DAEMON

Action: Contact your technical support representative.

L2ALD_DUPLICATE_RBEB_MAC

System Log Message: Duplicate RBEB mac has been detected (mac-address). LE already exists with pbbn_id:pbbn-id. Rejecting LE create with pbbn_id:new-pbbn-id

Description: The l2 learning process (l2ald) already has this particular BEB mac existing for a different PBBN ID.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Action: Contact your technical support representative.

L2ALD_FREE_MAC_FAILED

System Log Message: ERROR: error-message

Description: Before a MAC address is freed from system, it is removed from all lists and the kernel. Due to unexpected events, a mac about to be freed is found to be still in a list.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: Unexpected sequence of events or loops in the topology or some kind of misconfiguration.

**L2ALD_GENCFG_OP_FAILED**

System Log Message: Unable to complete gencfg operation \( \text{operation} \) (major type, minor subtype): error-message

Description: The Layer 2 address learning process (l2ald) could not send Layer 2 forwarding-related information to the Packet Forwarding Engines, because the indicated operation failed during configuration generation.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

**L2ALD_IPC_MESSAGE_ERROR**

System Log Message: Message (type \( \text{message-type} \), subtype \( \text{message-subtype} \), opcode \( \text{message-opcode} \)) received with error error-message

Description: The Layer 2 address learning process (l2ald) detected an error in an interprocess communication (IPC) message with the indicated characteristics.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

**L2ALD_IPC_MESSAGE_INVALID**

System Log Message: Invalid message received (message type \( \text{message} \), subtype \( \text{message-type} \))

Description: The Layer 2 address learning process (l2ald) received a message with the indicated characteristics. The message was invalid for the indicated reason.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.
### L2ALD_IPC_MESSAGE_SEND_FAILED

**System Log Message**  
Unable to send IPC message to *peer-name identifier*

**Description**  
The Layer 2 address learning process (l2ald) could not send an interprocess communication (IPC) message to the indicated Layer 2 peer.

**Type**  
Error: An error occurred

**Severity**  
warning

**Facility**  
LOG_DAEMON

**Action**  
Contact your technical support representative.

### L2ALD_IPC_PIPE_WRITE_ERROR

**System Log Message**  
Unable to write on pipe: *error-message*

**Description**  
The Layer 2 address learning process (l2ald) could not write to an interprocess communication (IPC) pipe for the indicated reason.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
One possible reason is that there was no reader for the pipe.

**Action**  
Contact your technical support representative. For more information, see [KB18934](#).

### L2ALD_MAC_LIMIT_REACHED_BD

**System Log Message**  
Limit on learned MAC addresses reached for routing instance 'routing-instance', domain 'bridge-domain:vlan-id'; current count is *count*

**Description**  
The Layer 2 address learning process (l2ald) stopped adding addresses to the MAC address table that were learned by interfaces in the indicated bridging domain, because the indicated count of learned addresses exceeds the configured or default limit for the bridge-domain.

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
Increase the limit on addresses learned by interfaces in the bridge domain, by increasing the value of the 'interface-mac-limit' statement at the [edit routing-instances <routing-instance-name> bridge-domains <bridge-domain-name> bridge-options] hierarchy level.
### L2ALD_MAC_LIMIT_REACHED_GLOBAL

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Global limit on learned MAC addresses reached; current count is <code>count</code></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 address learning process (l2ald) stopped adding addresses to the MAC address table, because the indicated count of learned addresses exceeds the limit for the router.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Increase the limit on addresses learned by the interfaces on the router by increasing the value of the 'global-mac-limit' statement at the [edit protocols l2-learning] hierarchy level.</td>
</tr>
</tbody>
</table>

### L2ALD_MAC_LIMIT_REACHED_IF

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Limit on learned MAC addresses reached for <code>interface-name</code>; current count is <code>count</code></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 address learning process (l2ald) stopped adding addresses to the MAC address table that were learned by the indicated interface, because the indicated count of learned addresses exceeds the limit configured for the interface.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Increase the limit on addresses learned by the interface by increasing the value of the 'interface-mac-limit' statement at the appropriate location under the [edit routing-instances &lt;routing-instance-name&gt; bridge-domains &lt;bridge-domain-name&gt; bridge-options] or the [edit routing-instances &lt;routing-instance-name&gt; protocols vpls] hierarchy level.</td>
</tr>
</tbody>
</table>

### L2ALD_MAC_LIMIT_REACHED_IFBD

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Limit on learned MAC addresses reached for <code>interface-name</code>; current count is <code>count</code></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 address learning process (l2ald) stopped adding addresses to the MAC address table that were learned by the indicated interface:vlan-id, because the indicated count of learned addresses exceeds the limit configured for the interface:vlan-id.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Increase the limit on addresses learned by the interface by increasing the value of the 'interface-mac-limit' statement at the appropriate location under the [edit routing-instances &lt;routing-instance-name&gt; bridge-domains &lt;bridge-domain-name&gt; bridge-options] or the [edit routing-instances &lt;routing-instance-name&gt; protocols vpls] hierarchy level.</td>
</tr>
</tbody>
</table>
routing-instances <routing-instance-name> bridge-domains <bridge-domain-name> bridge-options] or the [edit routing-instances <routing-instance-name> protocols vpls] hierarchy level.

L2ALD_MAC_LIMIT_REACHED_RTT

System Log Message  Limit on learned MAC addresses reached for routing instance 'routing-instance'; current count is count

Description  The Layer 2 address learning process (l2ald) stopped adding addresses to the MAC address table that were learned by interfaces in the indicated routing instance, because the indicated count of learned addresses exceeds the configured or default limit for the routing instance.

Type  Event: This message reports an event, not an error

Severity  error

Facility  LOG_DAEMON

Action  Increase the limit on addresses learned by interfaces in the routing-instance, by increasing the value of the 'interface-mac-limit' statement at the [edit routing-instances <routing-instance-name> protocol l2-learning] or the [edit routing-instances <routing-instance-name> protocols vpls] hierarchy level.

L2ALD_MAC_LIMIT_RESET_BD

System Log Message  Resumed adding MAC addresses learned from routing instance 'routing-instance', domain 'bridge-domain:vlan-id'; current count is count

Description  The Layer 2 address learning process (l2ald) resumed adding addresses to the MAC address table that were learned by interfaces in the indicated bridging domain, because the indicated count of learned addresses no longer exceeds the limit configured for the domain.

Type  Event: This message reports an event, not an error

Severity  error

Facility  LOG_DAEMON

Cause  The probable reason that the count of addresses went below the limit is that addresses in the table reached the age limit and were removed.

L2ALD_MAC_LIMIT_RESET_GLOBAL

System Log Message  Resumed adding MAC addresses for router; current count is count

Description  The Layer 2 address learning process (l2ald) resumed adding addresses to the MAC address table, because the indicated count of learned addresses no longer exceeds the configured limit.

Type  Event: This message reports an event, not an error
Severity     error
Facility     LOG_DAEMON
Cause        The probable reason that the count of addresses went below the limit is that addresses in the table reached the age limit and were removed.

L2ALD_MAC_LIMIT_RESET_IF
System Log Message Resumed adding MAC addresses learned by interface-name; current count is count
Description    The Layer 2 address learning process (l2ald) resumed adding addresses to the MAC address table that were learned by the indicated interface, because the indicated count of learned addresses no longer exceeds the limit configured for the interface.
Type           Event: This message reports an event, not an error
Severity       error
Facility       LOG_DAEMON
Cause          The probable reason that the count of addresses went below the limit is that addresses in the table reached the age limit and were removed.

L2ALD_MAC_LIMIT_RESET_RTT
System Log Message Resumed adding MAC addresses learned from routing instance 'routing-instance'; current count is count
Description    The Layer 2 address learning process (l2ald) resumed adding addresses to the MAC address table that were learned by interfaces in the indicated bridging domain, because the indicated count of learned addresses no longer exceeds the limit configured for the instance.
Type           Event: This message reports an event, not an error
Severity       error
Facility       LOG_DAEMON
Cause          The probable reason that the count of addresses went below the limit is that addresses in the table reached the age limit and were removed.

L2ALD_MAC_MOVE_NOTIFICATION
System Log Message MAC Moves detected in the system
Description    When the same MAC address is learned on a different interface, or on the same interface but a different unit number, it is considered a MAC move. When this happens frequently for a specific time duration, a notification is sent
Type           Event: This message reports an event, not an error
Severity       warning
Facility LOG_DAEMON
Cause The probable reason for mac moves is the loops in the topology or some kind of misconfiguration.

L2ALD_MALLOC_FAILED
System Log Message Unable to allocate memory: error-message
Description The Layer 2 address learning process (l2ald) could not allocate memory while creating a data structure.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Contact your technical support representative.

L2ALD_MANAGER_CONNECT
System Log Message Unable to create pipe to Layer 2 address-learning manager: error-message
Description The Layer 2 address learning process (l2ald) could not open a pipe for interprocess communication (IPC) with a Layer 2 address-learning manager process.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Contact your technical support representative.

L2ALD_NAME_LENGTH_IF_DEVICE
System Log Message Unable to add interface device interface-name; name exceeds limit of length characters
Description The Layer 2 address learning process (l2ald) did not add an entry for the indicated interface device to the interface table, because its name exceeds the indicated limit on the number of characters.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Contact your technical support representative.

L2ALD_NAME_LENGTH_IF_FAMILY
System Log Message Unable to add interface family interface-family; name exceeds limit of length characters
<table>
<thead>
<tr>
<th>Description</th>
<th>The Layer 2 address learning process (l2ald) did not add an entry for the indicated interface family to the interface table, because its name exceeds the indicated limit on the number of characters.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**L2ALD_NAME_LENGTH_IF_LOGICAL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to add logical interface <code>interface-name</code>; name exceeds limit of <code>length</code> characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 address learning process (l2ald) did not add an entry for the indicated logical interface to the interface table, because its name exceeds the indicated limit on the number of characters.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**L2ALD_PBBN_IFL_REVA**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to initialize Provider Backbone Bridging on interface <code>interface-name</code>. It is present on a Rev A card.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 address learning process (l2ald) could not initialize the interface for the provider backbone bridging (PBB) feature because the interface was on a revision A card.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Revision A cards do not support provider backbone bridging (PBB) features.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**L2ALD_PBBN_REINSTATE_IFBDS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Hardware VCs are being restored for data packet. They were de-programmed because <code>interface-name</code> had an interface on a Rev A card.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 address learning process (l2ald) reinstated certain hardware circuits to resume data traffic. The circuits were brought down because the provider backbone bridging (PBB) feature had discovered that one of the interfaces was on a revision A card.</td>
</tr>
</tbody>
</table>
Type Error: An error occurred
Severity warning
Facility LOG_DAEMON
Cause The interface is no longer present on the revision A card.
Action Contact your technical support representative.

L2ALD_PBBN_RETRACT_IFBDS

System Log Message Provider Backbone Bridging feature detected on interface interface-name on a Rev A card. VCs are being de-programmed.
Description The Layer 2 address learning process (l2ald) retracted certain hardware circuits to block data traffic. The circuits were brought down because the provider backbone bridging (PBB) feature had discovered that one of the interfaces was on a revision A card.

Type Error: An error occurred
Severity warning
Facility LOG_DAEMON
Cause An interface was discovered on the revision A card. Revision A cards do not support provider backbone bridging (PBB) features.
Action Contact your technical support representative.

L2ALD_PIP_IFD_READ_RETRY

System Log Message Retry count exceeded trying to read pip-interface from the kernel. Retry count is retry-count
Description The Layer 2 address learning process (l2ald) could not read the provide-in-provider interface (pip0) interface from the kernel.

Type Error: An error occurred
Severity critical
Facility LOG_DAEMON
Cause The chassis process may have been too slow in creating the interface.
Action Contact your technical support representative. For more information, see KB18935.
This chapter describes messages with the L2CPD prefix. They are generated by the Layer 2 Control Protocol process (l2cpd), which supports the transmission of control messages for Layer 2 spanning tree protocols in a Layer 2 bridge environment.

### L2CPD_ASSERT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Assertion failed for executable-name (PID pid) at line line-number in file 'source-filename': message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The source code for the Layer 2 Control Protocol process (l2cpd) includes internal self-consistency tests. The l2cpd process with the indicated executable name and process ID (PID) terminated because the indicated test failed at the indicated line number in the indicated source file. The process created a diagnostic core file for analysis by technical support personnel.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Messages that immediately follow this message in the system log might provide information about possible causes.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core file, if requested. For more information, see KB18937.</td>
</tr>
</tbody>
</table>

### L2CPD_ASSERT_SOFT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Assertion failed for executable-name (PID pid) at line line-number in file 'source-filename' (message); process continued running</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The source code for the Layer 2 Control Protocol process (l2cpd) includes internal self-consistency tests. The l2cpd process with the indicated executable name and process ID (PID) terminated because the indicated type of check failed at the indicated line number in the indicated source file. The process continued to run, but created a diagnostic core file for analysis by technical support personnel.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
Severity error
Facility LOG_DAEMON
Cause Messages that immediately follow this message in the system log might provide information about possible causes.
Action Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core file, if requested. For more information, see KB18938.

L2CPD_EXIT
System Log Message l2cpd process with PID pid exited (was using executable executable-name, version version built by builder on date); caller was address
Description The Layer 2 Control Protocol process (l2cpd) exited. The process had the indicated process ID (PID) and was using an executable with the indicated name, version, and other characteristics.
Type Event: This message reports an event, not an error
Severity notice
Facility LOG_DAEMON
Cause Either a system resource was unavailable, the l2cpd process could not interpret an error, or the indicated user (referred to as a 'caller') terminated the process.

L2CPD_KERNEL_VERSION
System Log Message Kernel version (kernel-version) of routing sockets was not required version (l2cpd-version)
Description The Layer 2 Control Protocol process (l2cpd) determined that the indicated version of routing sockets, which the kernel supports, is not the version that it requires.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Upgrade the kernel package.

L2CPD_KERNEL_VERSION_OLD
System Log Message Kernel version (kernel-version) of routing socket message type message-type is older than the required version (l2cpd-version)
Description The Layer 2 Control Protocol process (l2cpd) determined that the kernel supports an indicated older version of the indicated routing socket message type than it requires.
Type Error: An error occurred
Severity error
### L2CPD_KERNEL_VERSION_UNSUPP

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Upgrade the kernel package.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>Kernel version of routing socket message type 'message-type' was not required version (l2cpd-version)</td>
</tr>
<tr>
<td>Description</td>
<td>The Layer 2 Control Protocol process (l2cpd) determined that the kernel does not support the version of the indicated routing socket message type that it requires.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Upgrade the kernel package.</td>
</tr>
</tbody>
</table>

### L2CPD_MEMORY_EXCESSIVE

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Increase the amount of RAM in the Routing Engine.</td>
</tr>
<tr>
<td>System Log Message</td>
<td>Using size KB of memory, percentage-value percent of available</td>
</tr>
<tr>
<td>Description</td>
<td>The Layer 2 Control Protocol process (l2cpd) was using the indicated amount and percentage of Routing Engine memory, which is considered excessive.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Cause</td>
<td>Either the l2cpd process is leaking memory or the use of system resources is excessive. Possible causes include misconfigured routing filters or a very complex configured network topology.</td>
</tr>
</tbody>
</table>

### L2CPD_MGMT_TIMEOUT

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Peer peer-name timed out</td>
</tr>
<tr>
<td>Description</td>
<td>The Layer 2 Control Protocol process (l2cpd) did not receive input from the indicated management peer within the timeout period.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Cause</td>
<td>Messages that immediately follow this message in the system log might provide information about possible causes.</td>
</tr>
</tbody>
</table>
L2CPD_MIRROR_ERROR

System Log Message: Unable to establish mirror connection between Routing Engines: error-message

Description: The Layer 2 Control Protocol process (l2cpd) could not establish the mirror connection (which supports nonstop routing) between the master and backup Routing Engines.

Type: Error: An error occurred

Severity: warning

Facility: LOG_DAEMON

Cause: The master and backup Routing Engines are running incompatible versions of the JUNOS software.

Action: Update the JUNOS software to compatible versions on the master and backup Routing Engines.

L2CPD_MIRROR_VERSION_MISMATCH

System Log Message: Versions of mirror software on Routing Engines are incompatible: error-message

Description: While trying to establish the mirror connection (which supports nonstop routing) between the master and backup Routing Engines, the Layer 2 Control Protocol process (l2cpd) determined that the versions of JUNOS software on the Routing Engines were incompatible.

Type: Error: An error occurred

Severity: warning

Facility: LOG_DAEMON

Action: Update the JUNOS software to compatible versions on the master and backup Routing Engines.

L2CPD_PPM_READ_ERROR

System Log Message: Read error on pipe from ppmd: reason (error-message)

Description: The Layer 2 Control Protocol process (l2cpd) could not read a message available on the read pipe from the periodic packet management process (ppmd).

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Action: Contact your technical support representative.
L2CPD_PPM_WRITE_ERROR

Description: The Layer 2 Control Protocol process (l2cpd) could not write a message on the pipe to the periodic packet management process (ppmd).

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative. For more information, see KB18939.

L2CPD_RUNTIME_MODULE

Description: The indicated operation on the indicated submodule of the Layer 2 Control Protocol process (l2cpd) ran uninterrupted for the indicated period of time, which is considered excessive.

Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON
Cause: The message was logged because task accounting is enabled. The function might be implemented inefficiently.

L2CPD_RUNTIME_OPERATION

Description: The indicated operation on the indicated submodule of the Layer 2 Control Protocol process (l2cpd) ran uninterrupted for the indicated period of time, which is considered excessive.

Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON
Cause: The message was logged because task accounting is enabled. The function might be implemented inefficiently.

L2CPD_RUNTIME_TASK

Description: The indicated operation on the indicated submodule of the Layer 2 Control Protocol process (l2cpd) ran uninterrupted for the indicated period of time, which is considered excessive.

Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON
Cause: The message was logged because task accounting is enabled. The function might be implemented inefficiently.
**Description**
While performing the indicated operation, the indicated function in the Layer 2 Control Protocol process (l2cpd) ran uninterrupted for the indicated period of time (the sum of the indicated user and system times), which is considered excessive.

**Type**
Event: This message reports an event, not an error

**Severity**
warning

**Facility**
LOG_DAEMON

**Cause**
The message was logged because task accounting is enabled. The function might be implemented inefficiently.

**L2CPD_RUNTIME_TOTAL**

**System Log Message**
`function-name`: runtime was excessive (total of time in count callbacks) after action of module

**Description**
After the indicated operation on the indicated submodule of the Layer 2 Control Protocol process (l2cpd), several functions ran uninterrupted in the indicated number of callbacks for the indicated period of time, which is considered excessive.

**Type**
Event: This message reports an event, not an error

**Severity**
warning

**Facility**
LOG_DAEMON

**Cause**
The message was logged because task accounting is enabled. The function might be implemented inefficiently.

**L2CPD_TASK_BEGIN**

**System Log Message**
l2cpd process started (version l2cpd-version built on date by builder)

**Description**
The Layer 2 Control Protocol process (l2cpd) started. It was assigned the indicated process ID (PID) and was using an executable with the indicated name, version, and build date.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_DAEMON

**L2CPD_TASK_CHILD_KILLED**

**System Log Message**
Child process 'task-name' terminated by SIGsignal-name core-dump-status

**Description**
While a child process of the Layer 2 Control Protocol process (l2cpd) was performing the indicated operation, it terminated in response to the indicated signal.

**Type**
Event: This message reports an event, not an error

**Severity**
error
### L2CPD_TASK_CHILD_STOPPED

**System Log Message**  
Child process 'task-name' stopped by SIGsignal-name

**Description**  
While a child process of the Layer 2 Control Protocol process (l2cpd) was performing the indicated operation, it stopped in response to the indicated signal.

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_DAEMON

### L2CPD_TASK_FORK

**System Log Message**  
Unable to fork task-name: error-message

**Description**  
The Layer 2 Control Protocol process (l2cpd) could not create the indicated child process.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### L2CPD_TASK_GETWD

**System Log Message**  
getwd() failed for error-message

**Description**  
The Layer 2 Control Protocol process (l2cpd) invoked the getwd() system call, which failed.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
It is possible that the kernel lacked the resources needed to fulfill the request. The l2cpd process continued operating.

### L2CPD_TASK_MASTERSHIP

**System Log Message**  
Assumed mastership

**Description**  
The Layer 2 Control Protocol process (l2cpd) became active when the Routing Engine on which it was running assumed mastership.

**Type**  
Event: This message reports an event, not an error

**Severity**  
info

**Facility**  
LOG_DAEMON
**L2CPD_TASK_NO_REINIT**

**System Log Message**  Unable to reinitialize

**Description**  The Layer 2 Control Protocol process (l2cpd) did not reinitialize as requested, because it was running in a state that did not allow reconfiguration.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**L2CPD_TASK_PID_CLOSE**

**System Log Message**  Unable to close and remove PID file *filename: error-message*

**Description**  The Layer 2 Control Protocol process (l2cpd) could not close and remove the file that records its process ID (PID), which serves to prevent multiple instances of the l2cpd process from running simultaneously.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**L2CPD_TASK_PID_LOCK**

**System Log Message**  flock(*filename*, LOCK_EX): *error-message*

**Description**  The Layer 2 Control Protocol process (l2cpd) could not lock the file that records its process ID (PID), which serves to prevent multiple instances of the l2cpd process from running simultaneously.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**L2CPD_TASK_PID_WRITE**

**System Log Message**  Unable to write to PID file *filename: error-message*

**Description**  The Layer 2 Control Protocol process (l2cpd) could not write to the file that records its process ID (PID), which serves to prevent multiple instances of the l2cpd process from running simultaneously.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON
### L2CPD_TASK_REINIT

**System Log Message**  Reinitialized

**Description**  The Layer 2 Control Protocol process (l2cpd) reinitialized.

**Type**  Event: This message reports an event, not an error

**Severity**  info

**Facility**  LOG_DAEMON

### L2CPD_TASK_SIGNAL_IGNORE

**System Log Message**  Unable to register SIGsignal-name to be ignored: error-message

**Description**  The Layer 2 Control Protocol process (l2cpd) informed the kernel that it wished to ignore the indicated signal, but the kernel did not process the request.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

### L2CPD_TERMINATE_ACTIVE

**System Log Message**  Exited with active tasks: task-name

**Description**  After receiving multiple termination requests, the Layer 2 Control Protocol process (l2cpd) exited without performing the indicated cleanup tasks.

**Type**  Event: This message reports an event, not an error

**Severity**  notice

**Facility**  LOG_DAEMON

### L2CPD_TERMINATE_SIGNAL

**System Log Message**  Exited after receiving termination signal signal-name

**Description**  In response to the indicated termination request, the Layer 2 Control Protocol process (l2cpd) terminated adjacencies with neighbors and shut down.

**Type**  Event: This message reports an event, not an error

**Severity**  notice

**Facility**  LOG_DAEMON

### L2CPD_TRACE_FAILED

**System Log Message**  Unable to write to trace file filename

**Description**  The Layer 2 Control Protocol process (l2cpd) could not write to the indicated trace file, and stopped attempting to do so. The next commit of the configuration database will reenable tracing.
**Type**  Event: This message reports an event, not an error

**Severity**  error

**Facility**  LOG_DAEMON

**L2CPD_XSTP_SHUTDOWN_FAILED**

**System Log Message**  Unable to shut down *error-message* module

**Description**  The Layer 2 Control Protocol process (l2cpd) could not shut down the indicated Rapid Spanning Tree Protocol (RSTP) or Multiple Spanning Tree Protocol (MSTP) module.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON
This chapter describes messages with the L2TPD prefix. They are generated by the Layer 2 Tunneling Protocol (L2TP) process (l2tpd), which provides services that enable tunneling of Point-to-Point Protocol (PPP) sessions across a Layer 3 IP network.

**L2TPD_COS_PROFILE_ADD**

**System Log Message**
Unable to add CoS profile profile-name (L2TP tunnel tunnel-id, session session-id): error-message

**Description**
The Layer 2 Tunneling Protocol process (l2tpd) could not add the indicated class-of-service (CoS) profile to the indicated session on the indicated tunnel, which is associated with a user.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_NEWS

**Action**
Remove the CoS profile from the RADIUS database or contact your technical support representative.

**L2TPD_COS_PROFILE_DELETE**

**System Log Message**
Unable to delete CoS profile (L2TP tunnel tunnel-id, session session-id): error-message

**Description**
The Layer 2 Tunneling Protocol process (l2tpd) could not delete a class-of-service (CoS) profile from the indicated session on the indicated tunnel, which is associated with a user.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_NEWS

**Action**
Remove the CoS profile from the RADIUS database or contact your technical support representative.
L2TPD_DB_ADD_FAILED
System Log Message Unable to add node for node-name to internal database
Description The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not add the indicated node to the in-memory database.
Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_DB_DELETE_FAILED
System Log Message Unable to delete node for node-name from internal database
Description The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not delete the indicated node to the in-memory database.
Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_DB_INIT_FAILED
System Log Message Unable to initialize root node object-name in internal database: error-message
Description The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not initialize the root node for the indicated object in the in-memory database.
Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_DB_TUN_GRP_ALLOC_FAILED
System Log Message Unable to allocate memory for tunnel group
Description The Layer 2 Tunneling Protocol process (l2tpd) could not allocate memory for the data structure used to record tunnel group information.
Type Error: An error occurred
Severity error
Facility LOG_NEWS
L2TPD_DEFAULT_PROTO_CREATE_FAIL

System Log Message: Unable to create default L2TP module
Description: The Layer 2 Tunneling Protocol process (l2tpd) could not create a default L2TP module.
Type: Error: An error occurred
Severity: error
Facility: LOG_NEWS

L2TPD_EVLIB.CREATE_FAILED

System Log Message: Unable to create event context: error-message
Description: The Layer 2 Tunneling Protocol process (l2tpd) could not create a context for handling asynchronous events.
Type: Error: An error occurred
Severity: emergency
Facility: LOG_NEWS

L2TPD_EVLIB_FD_DEREGISTER FAILED

System Log Message: Unable to deregister file descriptor: not registered
Description: The Layer 2 Tunneling Protocol process (l2tpd) could not deregister a file descriptor, because it did not exist.
Type: Error: An error occurred
Severity: error
Facility: LOG_NEWS

L2TPD_EVLIB_FD_DESELECT_FAILED

System Log Message: Unable to deselect file descriptor: error-message
Description: The Layer 2 Tunneling Protocol process (l2tpd) could not deselect a file descriptor.
Type: Error: An error occurred
Severity: error
Facility: LOG_NEWS

L2TPD_EVLIB_FD_NOT_REGISTERED

System Log Message: No file descriptor registered
Description: The Layer 2 Tunneling Protocol process (l2tpd) could not find a registered file descriptor while attempting to set an event mask.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_EVLIB_FD_SELECT_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to select file descriptor for events event-id: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not select the file descriptor for the indicated events.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_EVLIB_TIMER_CLEAR_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to clear event timer: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not clear an event timer for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_EVLIB_TIMER_SET_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to set event timer: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not set an event timer for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_FILTER_FILE_OPEN_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to open file filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not open the indicated filter file.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>
### L2TPD_GLOBAL_CFG_ADD_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to add global configuration for PIC <code>pic-slot</code> (<code>errno error-code</code>)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not add the global configuration for the indicated PIC.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

### L2TPD_GLOBAL_CFG_CHANGE_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to change global configuration for PIC <code>pic-slot</code> (<code>errno error-code</code>)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not change the global configuration for the indicated PIC.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

### L2TPD_GLOBAL_CFG_DELETE_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to delete global configuration for PIC <code>pic-slot</code> (<code>errno error-code</code>)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not delete the global configuration for the indicated PIC.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

### L2TPD_IFD_ADD_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th><code>function-name</code>: unable to add interface device <code>interface-name</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not add the indicated interface device to the in-memory database.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

### L2TPD_IFD_DELETE_FAILED

| System Log Message | `function-name`: unable to delete interface device `interface-name` |
### L2TPD_IFD_MSG_REGISTER_FAILED

**System Log Message**
Unable to register message handler for interface device: *error-message*

**Description**
The Layer 2 Tunneling Protocol process (l2tpd) could not register an interface device message handler.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

### L2TPD_IFD_ROOT_ALLOC_FAILED

**System Log Message**
Unable to allocate memory for interface device root node: *error-message*

**Description**
The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not allocate memory in the in-memory database for the root node for an interface device.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

### L2TPD_IFL_ADD_FAILED

**System Log Message**
`function-name`: unable to add interface `interface-name`

**Description**
The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not add the indicated logical interface to the in-memory database.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

### L2TPD_IFL_DELETE_FAILED

**System Log Message**
`function-name`: unable to delete interface `interface-name`
<table>
<thead>
<tr>
<th>Description</th>
<th>The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not delete the indicated logical interface from the in-memory database.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_IFL_MSG_REGISTER_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to register message handler for interface: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not register a logical interface message handler.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_IFL_NOT_FOUND**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to find logical interface (L2TP tunnel tunnel-id, session session-id)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not retrieve a logical interface in the indicated tunnel and session.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_IFL_ROOT_ALLOC_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to allocate memory for interface root node: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not allocate memory in the in-memory database for the root node for a logical interface.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_INSTANCE_CREATE_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to create L2TP instance tunnel-group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not create an L2TP instance for the indicated tunnel group.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>--------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_INSTANCE_RESTART_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to trigger restart of L2TP instance <em>tunnel-group</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not restart the L2TP instance for the indicated tunnel group.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_INTERFACE_ID_NOT_FOUND**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to find interface ID <em>interface-name</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not find the indicated interface ID in the copy of the Junos configuration database that it maintains in memory.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_MESSAGE_REGISTER_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to register L2TP message handler: <em>error-message</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not register an L2TP message handler.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_MLPPP_BUNDLE_ALLOC_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to allocate MLPPP bundle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not allocate memory for a multilink Point-to-Point Protocol (MLPPP) bundle.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>
**L2TPD_MLPPP_BUNDLE_CREATE_FAILED**

**System Log Message**  
Unable to create MLPPP bundle (L2TP tunnel `tunnel-id`, session `session-id`).

**Description**  
The Layer 2 Tunneling Protocol process (l2tpd) could not create a multilink Point-to-Point Protocol (MLPPP) bundle in the indicated tunnel and session.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_NEWS

**L2TPD_MLPPP_BUNDLE_INVALID_ID**

**System Log Message**  
MLPPP bundle ID was invalid

**Description**  
The identifier assigned to a multilink Point-to-Point Protocol (MLPPP) bundle was invalid.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_NEWS

**L2TPD_MLPPP_COPY_CFG_FAILED**

**System Log Message**  
Unable to copy MLPPP configuration (L2TP tunnel `tunnel-id`, session `session-id`).

**Description**  
The Layer 2 Tunneling Protocol process (l2tpd) could not copy the multilink Point-to-Point Protocol (MLPPP) configuration for the indicated tunnel and session.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_NEWS

**L2TPD_MLPPP_ID_ALLOC_FAILED**

**System Log Message**  
Unable to allocate MLPPP ID map

**Description**  
The Layer 2 Tunneling Protocol process (l2tpd) could not allocate memory for a multilink Point-to-Point Protocol (MLPPP) identifier map data structure.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_NEWS

**L2TPD_MLPPP_ID_BITMAP_ALLOC_FAIL**

**System Log Message**  
Unable to allocate bitmap field for MLPPP ID map

**Description**  
The Layer 2 Tunneling Protocol process (l2tpd) could not allocate memory for a bitmap field in a multilink Point-to-Point Protocol (MLPPP) identifier map data structure.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_MLPPP_ID_NODE_ADD_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to add node for bundle <em>bundle</em> to MLPPP ID map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not add a node for the indicated multilink Point-to-Point Protocol (MLPPP) bundle to an MLPPP identifier map data structure.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Facility</td>
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</tr>
</tbody>
</table>

**L2TPD_MLPPP_ID_ROOT_ALLOC_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to allocate root node for MLPPP ID map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not allocate the root node for a multilink Point-to-Point Protocol (MLPPP) identifier map data structure.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_MLPPP_LINK_CREATE_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to create MLPPP bundle links (L2TP tunnel <em>tunnel-id</em>, session <em>session-id</em>)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not create multilink Point-to-Point Protocol (MLPPP) bundle links for the indicated tunnel and session.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_MLPPP_LINK_MAX_EXCEEDED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to add link: maximum number of sessions exceeded for MLPPP bundle <em>bundle</em> (L2TP tunnel <em>tunnel-id</em>, session <em>session-id</em>)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not add a link for the indicated multilink Point-to-Point Protocol (MLPPP) bundle in the indicated tunnel and session, because the maximum number of links was exceeded.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>
Facility  LOG_NEWS

**L2TPD_MLPPP_POOL_ADDRESS_FAILED**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to assign pool address for MLPPP bundle bundle (L2TP tunnel tunnel-id, session session-id)</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not assign a pool address for the indicated multilink Point-to-Point Protocol (MLPPP) bundle in the indicated tunnel and session.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_MLPPP_SESSION_CREATE_FAIL**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to create MLPPP session (L2TP tunnel tunnel-id, session session-id)</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not create a multilink Point-to-Point Protocol (MLPPP) session for the indicated tunnel and session.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
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</tr>
</tbody>
</table>

**L2TPD_MLPPP_SESSION_DELETE_FAIL**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to delete session for MLPPP bundle bundle (L2TP tunnel tunnel-id, session session-id, errno error-code)</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not delete the session configuration for the indicated multilink Point-to-Point Protocol (MLPPP) bundle in the indicated tunnel and session.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_MLPPP_SPEED_MISMATCH**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to add link: speed differs for bundle bundle (L2TP tunnel tunnel-id, session session-id)</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not add a link for the indicated multilink Point-to-Point Protocol (MLPPP) bundle in the indicated tunnel and session, because the bundle speed does not match.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_NEWS</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
</tr>
<tr>
<td><strong>L2TPD_NH_DELETE_FAILED</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to delete next hop <em>next-hop</em></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not delete the indicated next hop.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_NEWS</td>
</tr>
<tr>
<td><strong>L2TPD_POLICER_ADD_FAILED</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to add policer <em>filter-name</em> (L2TP tunnel <em>tunnel-id</em>, session <em>session-id</em>): <em>error-message</em></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not add the indicated policer to the indicated session on the indicated tunnel, which is associated with a user.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_NEWS</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Remove the policer from the RADIUS database or contact your technical support representative.</td>
</tr>
<tr>
<td><strong>L2TPD_POLICER_PROFILE_DEL_FAILED</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to delete policer profile (L2TP tunnel <em>tunnel-id</em>, session <em>session-id</em>): <em>error-message</em></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not delete a policer profile from the indicated session on the indicated tunnel, which is associated with a user.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_NEWS</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Remove the policer profile from the RADIUS database or contact your technical support representative.</td>
</tr>
<tr>
<td><strong>L2TPD_POOL_ADDRESS_FAILED</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to assign pool address (L2TP tunnel <em>tunnel-id</em>, session <em>session-id</em>)</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not assign a pool address in the indicated tunnel and session.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
L2TPD_POOL_ASSIGN_ADDRESS_FAILED

System Log Message: Unable to assign L2TP pool address: pool pool-name is invalid or has no free addresses

Description: The Layer 2 Tunneling Protocol process (l2tpd) could not assign an address from the indicated address pool, either because the pool was invalid or had no free addresses.

Type: Error: An error occurred

L2TPD_PPP_ROUTE_ADD_FAILED

System Log Message: Unable to add PPP peer route (L2TP tunnel tunnel-id, session session-id)

Description: The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not add information about a Point-to-Point Protocol (PPP) peer route to the in-memory configuration for the indicated tunnel and session.

Type: Error: An error occurred

L2TPD_PPP_ROUTE_DELETE_FAILED

System Log Message: Unable to remove PPP peer route (L2TP tunnel tunnel-id, session session-id)

Description: The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not delete information about a Point-to-Point Protocol (PPP) peer route from the in-memory configuration for the indicated tunnel and session.

Type: Error: An error occurred

L2TPD_PROFILE_NOT_FOUND

System Log Message: Profile profile-name not found

Description: The Layer 2 Tunneling Protocol process (l2tpd) could not locate an access profile from the configuration in order to find radius servers to authenticate.

Type: Error: An error occurred
<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_NEWS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>L2TPD_PROFILE_NO_RADIUS_SERVERS</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Can't find radius servers for profile 'profile-name'</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not locate any radius servers for the configured access profile.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_NEWS</td>
</tr>
<tr>
<td><strong>L2TPD_RADIUS_ACCT_PORT_ZERO</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>RADIUS server accounting port is zero</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) determined that the RADIUS server accounting port is zero, which is not a valid value.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_NEWS</td>
</tr>
<tr>
<td><strong>L2TPD_RADIUS_GETHOSTNAME_FAILED</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to obtain hostname for outgoing RADIUS message: error-message</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not obtain a hostname for an outgoing RADIUS message.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_NEWS</td>
</tr>
<tr>
<td><strong>L2TPD_RADIUS_RT_INST_ENOENT</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Ignoring RADIUS server radius-server: routing instance routing-instance did not exist</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) did not use the indicated RADIUS server because the indicated routing instance specified for the server did not exist.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>notice</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_NEWS</td>
</tr>
<tr>
<td><strong>L2TPD_RADIUS_RT_INST_NOT_FOUND</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Ignoring RADIUS server radius-server: unable to retrieve routing instance routing-instance (error-message)</td>
</tr>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) did not use the indicated RADIUS server because it could not retrieve the indicated routing instance specified for the server.</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_RADIUS_SERVER_NOT_FOUND**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to find RADIUS server (tunnel tunnel-id, session session-id)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not locate a RADIUS server during Point-to-Point Protocol (PPP) authentication of the indicated tunnel and session.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_RADIUS_SRC_ADDR_BIND_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Ignoring RADIUS server radius-server: unable to bind to source address source-address (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) did not use the indicated RADIUS server because it could not bind to the indicated source address.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_RADIUS_SRC_ADDR_ENOENT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Ignoring RADIUS server radius-server: source address source-address did not exist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) did not use the indicated RADIUS server because the indicated source address did not exist in the routing instance for the server.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_RPD_ASYNC_UNREG_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to unregister with rpd (return-value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not unregister asynchronously with the routing protocol process (rpd).</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>
### Severity
- Error

### Facility
- LOG_NEWS

#### L2TPD_RPD_ROUTE_ADD_CB_FAILED
- **System Log Message**: Unable to add route `address/prefix-length` asynchronously (gateway `gateway-id [gateway-name]`, L2TP tunnel `tunnel-id`, session `session-id`): `error-code`
- **Description**: The Layer 2 Tunneling Protocol process (l2tpd) could not add a route on an asynchronous callback for the indicated address and prefix, gateway, tunnel, and session.
- **Type**: Error: An error occurred
- **Severity**: Error
- **Facility**: LOG_NEWS

#### L2TPD_RPD_ROUTE_ADD_FAILED
- **System Log Message**: Unable to add route `address/prefix-length` (gateway `gateway-id [gateway-name]`, L2TP tunnel `tunnel-id`, session `session-id`): `error-message` (`error-code`)
- **Description**: The Layer 2 Tunneling Protocol process (l2tpd) could not add a route for the indicated address and prefix, gateway, tunnel, and session.
- **Type**: Error: An error occurred
- **Severity**: Error
- **Facility**: LOG_NEWS

#### L2TPD_RPD_ROUTE_DELETE_CB_FAILED
- **System Log Message**: Unable to delete route `address/prefix-length` asynchronously (gateway `gateway-id [gateway-name]`, L2TP tunnel `tunnel-id`, session `session-id`): `error-code`
- **Description**: The Layer 2 Tunneling Protocol process (l2tpd) could not delete a route on an asynchronous callback for the indicated address and prefix, gateway, tunnel, and session.
- **Type**: Error: An error occurred
- **Severity**: Error
- **Facility**: LOG_NEWS

#### L2TPD_RPD_ROUTE_DELETE_FAILED
- **System Log Message**: Unable to delete route `address/prefix-length` (gateway `gateway-id [gateway-name]`, L2TP tunnel `tunnel-id`, session `session-id`): `error-message` (`error-code`)
- **Description**: The Layer 2 Tunneling Protocol process (l2tpd) could not delete a route for the indicated address and prefix, gateway, tunnel, and session.
- **Type**: Error: An error occurred
- **Severity**: Error
- **Facility**: LOG_NEWS
Facility  LOG_NEWS

**L2TPD\_RPD\_ROUTE\_PREFIX\_TOO\_LONG**

**System Log Message**  Unable to add route *address/prefix-length*: prefix too long (L2TP tunnel *tunnel-id*, session *session-id*)

**Description**  The Layer 2 Tunneling Protocol process (l2tpd) could not add a route for the indicated address and prefix, tunnel, and session.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG\_NEWS

**L2TPD\_RPD\_SESS\_CREATE\_FAILED**

**System Log Message**  Unable to establish session with rpd (*error-code*)

**Description**  The Layer 2 Tunneling Protocol process (l2tpd) could not establish a session with the routing protocol process (rpd).

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG\_NEWS

**L2TPD\_RPD\_SESS\_HANDLE\_ALLOC\_FAIL**

**System Log Message**  Unable to allocate session handle for rpd connection: *error-message* (*error-code*)

**Description**  The Layer 2 Tunneling Protocol process (l2tpd) could not allocate a session handle while attempting to initialize a connection to the routing protocol process (rpd).

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG\_NEWS

**L2TPD\_RPD\_SOCKET\_ALLOC\_FAILED**

**System Log Message**  Unable to allocate socket address for rpd connection

**Description**  The Layer 2 Tunneling Protocol process (l2tpd) could not allocate a socket address structure while attempting to initialize a connection to the routing protocol process (rpd).

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG\_NEWS

**L2TPD\_RPD\_TBL\_LOCATE\_BY\_NAME**

**System Log Message**  Unable to locate rpd table by name: *error-message* (*error-code*)
Description: The Layer 2 Tunneling Protocol process (l2tpd) attempted to retrieve a routing protocol process table by providing the table name. The attempt failed.

Type: Error: An error occurred
Severity: error
Facility: LOG_NEWS

**L2TPD_RPD_TBL_LOCATE_FAILED**

System Log Message: Unable to locate table table-name for identifier (return-value)
Description: The Layer 2 Tunneling Protocol process (l2tpd) could not retrieve the indicated routing protocol process table.

Type: Error: An error occurred
Severity: error
Facility: LOG_NEWS

**L2TPD_RPD_VERSION_MISMATCH**

System Log Message: Versions of rpd and librpd did not match; not retrying
Description: The Layer 2 Tunneling Protocol process (l2tpd) determined that the versions of the routing protocol process (rpd) and routing protocol library (librpd) were different. It halted its attempt to connect to the rpd process.

Type: Error: An error occurred
Severity: error
Facility: LOG_NEWS

**L2TPD_RTSLIB_ASYNC_OPEN_FAILED**

System Log Message: Unable to open asynchronous routing socket connection
Description: The Layer 2 Tunneling Protocol process (l2tpd) could not open a routing socket connection asynchronously. It uses the connection to communicate with the Junos operating system kernel.

Type: Error: An error occurred
Severity: error
Facility: LOG_NEWS

**L2TPD_RTSLIB_OPEN_FAILED**

System Log Message: Unable to open routing socket connection
Description: The Layer 2 Tunneling Protocol process (l2tpd) could not open a routing socket connection, which it uses to communicate with the Junos operating system kernel.
L2TPD_SERVER_START_FAILED

System Log Message: Startup of L2TP server failed

Description: The Layer 2 Tunneling Protocol (L2TP) server did not start.

L2TPD_SERVICE_NH_ADD_FAILED

System Log Message: Unable to add service next hop (L2TP tunnel tunnel-id, session session-id): error-message (error-code)

Description: The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not add information about a service next hop to the in-memory configuration for the indicated tunnel and session.

L2TPD_SERVICE_NH_DELETE_FAILED

System Log Message: Unable to remove service next hop next-hop (VRF vrf, L2TP tunnel tunnel-id, session session-id)

Description: The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not remove information about the indicated service next hop from the in-memory configuration for the indicated tunnel and session.

L2TPD_SESSION_CFG_ADD_ERROR

System Log Message: Unable to add L2TP tunnel tunnel-id, session session-id to PIC configuration (errno error-code)

Description: The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not add information about the indicated session and tunnel to the in-memory configuration for the PIC.
L2TPD_SESSION_CFG_ADD_FAILED

Type: Error: An error occurred  
Severity: error  
Facility: LOG_NEWS

System Log Message: Unable to add L2TP tunnel tunnel-id, session session-id to PIC configuration

Description: The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not add information about the indicated session and tunnel to the in-memory configuration for the PIC.

L2TPD_SESSION_CFG_DELETE_FAILED

Type: Error: An error occurred  
Severity: error  
Facility: LOG_NEWS

System Log Message: Unable to remove L2TP tunnel tunnel-id, session session-id from PIC configuration

Description: The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not remove information about the indicated session and tunnel from the in-memory configuration for the PIC.

L2TPD_SESSION_DELETE_FAILED

Type: Error: An error occurred  
Severity: error  
Facility: LOG_NEWS

System Log Message: Unable to delete session (L2TP tunnel tunnel-id, session session-id, errno error-code)

Description: The Layer 2 Tunneling Protocol process (l2tpd) could not delete information about the indicated tunnel and session.

L2TPD_SESSION_IFF_NOT_FOUND

Type: Error: An error occurred  
Severity: error  
Facility: LOG_NEWS

System Log Message: Unable to find family structure for interface interface-name (L2TP tunnel tunnel-id, session session-id)

Description: The Layer 2 Tunneling Protocol process (l2tpd) could not retrieve the interface family structure for the indicated logical interface index in the indicated tunnel and session.
Facility LOG_NEWS

**L2TPD_SESSION_IFL_ADD_FAILED**

*System Log Message* function-name: unable to assign session session-id to interface interface-name

*Description* The Layer 2 Tunneling Protocol process (l2tpd) could not associate the indicated session with the indicated logical interface.

*Type* Error: An error occurred

*Severity* error

*Facility* LOG_NEWS

**L2TPD_SESSION_IFL_ALLOCS_FAILED**

*System Log Message* function-name: unable to allocate memory for session session-id, interface interface-name

*Description* The Layer 2 Tunneling Protocol process (l2tpd) could not allocate memory for the indicated session to be associated with the indicated logical interface.

*Type* Error: An error occurred

*Severity* error

*Facility* LOG_NEWS

**L2TPD_SESSION_IFL_CLI_TREE_ALLOC**

*System Log Message* Unable to allocate memory for session tree for interface interface-name

*Description* The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not allocate memory for a command-line interface (CLI)-specific session tree structure for the indicated logical interface.

*Type* Error: An error occurred

*Severity* error

*Facility* LOG_NEWS

**L2TPD_SESSION_IFL_DELETED**

*System Log Message* function-name: interface interface-name is deleted

*Description* The Layer 2 Tunneling Protocol process (l2tpd) detected that the configuration information for the indicated logical interface was deleted for a session.

*Type* Error: An error occurred

*Severity* error

*Facility* LOG_NEWS

**L2TPD_SESSION_IFL_DELETE_FAILED**

*System Log Message* function-name: unable to delete session identifier from interface interface-name
<table>
<thead>
<tr>
<th>Description</th>
<th>The Layer 2 Tunneling Protocol process (l2tpd) could not delete information about a session from the configuration information for a logical interface.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_SESSION_IFL_GET_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: unable to find interface interface-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not retrieve configuration information about the indicated logical interface, to which it was going to add session information.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_SESSION_IFL_NOT_EQUAL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: interface interface-name not equal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not add a session for the indicated logical interface.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_SESSION_IFL_NOT_FOUND**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to find interface interface-name (L2TP tunnel tunnel-id, session session-id)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not find the indicated logical interface corresponding to the indicated tunnel and session.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_SESSION_IFL_OCCUPIED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: interface interface-name already has associated session (value1/value2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) determined that the indicated logical interface already had an associated session.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>
Severity error
Facility LOG_NEWS

L2TPD_SESSION_IFL_REMOVE_FAILED

System Log Message Unable to remove L2TP tunnel tunnel-id, session session-id from logical interface (errno error-code)
Description The Layer 2 Tunneling Protocol process (l2tpd) could not remove information about the indicated tunnel and session from the record it maintains for a logical interface.
Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_SESSION_INVALID_PEER_IP

System Log Message Invalid peer address peer-address in IPCP UP (L2TP tunnel tunnel-id, session session-id); closing session
Description The Layer 2 Tunneling Protocol process (l2tpd) received an IP Control Protocol (IPCP) 'UP' message for the indicated tunnel and session that included the indicated IP address for a peer. The address was invalid, and the l2tpd process started closing down the session.
Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_SESSION_ROUTE_ADD_FAILED

System Log Message Unable to add PPP route (L2TP tunnel tunnel-id, session session-id, errno error-code)
Description The Layer 2 Tunneling Protocol process (l2tpd) could not add a Point-to-Point Protocol (PPP) route for the indicated tunnel and session.
Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_SESSION_RT_TBL_NOT_FOUND

System Log Message Unable to find route table table-id for interface interface-name (L2TP tunnel tunnel-id, session session-id)
Description The Layer 2 Tunneling Protocol process (l2tpd) could not retrieve the indicated routing table associated with the indicated logical interface in the indicated tunnel and session.
Type Error: An error occurred
Severity: error  
Facility: LOG_NEWS  

**L2TPD_SESSION_TUNNEL_ID_MISMATCH**

**System Log Message**: Tunnel ID `tunnel-id` in message does not match L2TP tunnel `l2tp-tunnel-id`, session `session-id`  
**Description**: The Layer 2 Tunneling Protocol process (l2tpd) received a message with the indicated tunnel identifier, which did not match the identifier stored for the indicated tunnel and session.  
**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_NEWS  

**L2TPD_SETSOCKOPT_FAILED**

**System Log Message**: `setsockopt()` failed operation: `error-message`  
**Description**: The Layer 2 Tunneling Protocol process (l2tpd) could not set socket options during the indicated operation.  
**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_NEWS  

**L2TPD_SET_ASYNC_CONTEXT**

**System Log Message**: Unable to set asynchronous context (errno `error-code`)  
**Description**: The Layer 2 Tunneling Protocol process (l2tpd) could not set asynchronous context for a routing socket connection, which it uses to communicate with the Junos operating system kernel.  
**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_NEWS  

**L2TPD_SHOW_MULTILINK**

**System Log Message**: Detail level `level` is not supported by ‘show services l2tp multilink’ command  
**Description**: The ‘show services l2tp multilink’ command was issued with the indicated option to specify the amount of information to return, but the command does not support that option.  
**Type**: Error: An error occurred  
**Severity**: error
L2TPD_SHOW_SESSION

System Log Message: Detail level level is not supported by 'show services l2tp session' command

Description: The 'show services l2tp session' command was issued with the indicated option to specify the amount of information to return, but the command does not support that option.

Type: Error: An error occurred

Severity: error

Facility: LOG_NEWS

L2TPD_SHOW_TUNNEL

System Log Message: Detail level level is not supported by 'show services l2tp tunnel' command

Description: The 'show services l2tp tunnel' command was issued with the indicated option to specify the amount of information to return, but the command does not support that option.

Type: Error: An error occurred

Severity: error

Facility: LOG_NEWS

L2TPD_SOCKET_FAILED

System Log Message: socket() failed operation: error-message

Description: The Layer 2 Tunneling Protocol process (l2tpd) could not open socket during the indicated operation.

Type: Error: An error occurred

Severity: error

Facility: LOG_NEWS

L2TPD_SUBUNIT_ROUTE_ALLOC_FAILED

System Log Message: Unable to allocate L2TP route (tunnel tunnel-id, session session-id)

Description: The Layer 2 Tunneling Protocol process (l2tpd) could not allocate a subunit route record for the indicated tunnel and session.

Type: Error: An error occurred

Severity: error

Facility: LOG_NEWS

L2TPD_TRACE_FILE_OPEN_FAILED

System Log Message: Unable to open trace file: error-message

Description: The Layer 2 Tunneling Protocol process (l2tpd) could not open its trace file.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_TUNNEL_CFG_ADD_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to add L2TP tunnel tunnel-id to PIC configuration (errno error-code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not add information about the indicated tunnel to the in-memory configuration for the PIC.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_TUNNEL_CFG_ADD_INV_ADDR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to add L2TP tunnel tunnel-id to PIC configuration: address invalid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not add information about the indicated tunnel to the in-memory configuration for the PIC, because the local or remote address provided for the tunnel was invalid.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
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</tr>
</tbody>
</table>

**L2TPD_TUNNEL_CFG_DELETE_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to remove L2TP tunnel tunnel-id from PIC configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not remove information about the indicated tunnel from the in-memory configuration for the PIC.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_TUNNEL_DELETE_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to delete L2TP tunnel tunnel-id (errno error-code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not delete information about the indicated tunnel.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_TUNNEL_DEST_IF_LOOKUP_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to find destination interface for L2TP tunnel tunnel-id remote address: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) tried to use route lookup to determine which local logical interface to use to reach the remote end of the indicated tunnel. The attempt failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_TUNNEL_GROUP_ADD_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to create L2TP tunnel group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not create a tunnel group.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_TUNNEL_GROUP_CFG_ADD_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to add tunnel group tunnel-group (service set service-set) to configuration for PIC pic-slot: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not add information about the indicated tunnel group and service set to the in-memory configuration for the indicated PIC.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_TUNNEL_GROUP_CFG_DEL_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to delete tunnel group tunnel-group (service set service-set): error-code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not delete information about the indicated tunnel group and service set.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>
## L2TPD_TUNNEL_GROUP_CREATE_FAILED

**System Log Message**  Unable to create L2TP module for tunnel group *address*

**Description**  The Layer 2 Tunneling Protocol process (l2tpd) could not create the indicated protocol tunnel group.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_NEWS

## L2TPD_TUNNEL_GROUP_DELETE_FAILED

**System Log Message**  Unable to delete L2TP tunnel group *tunnel-group-id* (errno *error-code*)

**Description**  The Layer 2 Tunneling Protocol process (l2tpd) could not delete information about the indicated tunnel group.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_NEWS

## L2TPD_TUNNEL_GROUP_IDX_MISMATCH

**System Log Message**  Tunnel group index *index1* in message does not match index *index2* stored for L2TP tunnel *tunnel-id*

**Description**  The Layer 2 Tunneling Protocol process (l2tpd) received a message with the indicated tunnel group index, which did not match the indicated group tunnel index stored for the indicated tunnel.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_NEWS

## L2TPD_TUNNEL_GROUP_RESTART_FAIL

**System Log Message**  Unable to restart L2TP module for tunnel group

**Description**  The Layer 2 Tunneling Protocol process (l2tpd) could not restart a protocol tunnel group.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_NEWS

## L2TPD_USER_AUTHN_NOT_FOUND

**System Log Message**  Unable to find user profile *username* during PPP authentication
<table>
<thead>
<tr>
<th>Description</th>
<th>The Layer 2 Tunneling Protocol process (l2tpd) could not retrieve the user profile for the indicated username, which it needs for Point-to-Point Protocol (PPP) authentication of a session.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_USER_AUTHN_ORDER_UNKNOWN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unknown authentication order authentication-order (tunnel tunnel-id, session session-id)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) did not recognize the indicated authentication order, which was specified for Point-to-Point (PPP) authentication of the indicated tunnel and session.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>

**L2TPD_USER_AUTHN_PWD_NOT_FOUND**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to retrieve password during PPP authentication of user username</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Layer 2 Tunneling Protocol process (l2tpd) could not retrieve the password for the indicated username, which it needs for Point-to-Point Protocol (PPP) authentication of a session.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
</tbody>
</table>
This chapter describes messages with the **LACPD** prefix. They are generated by the Link Aggregation Control Protocol (LACPD) process (lacpd), which supports LACP functions for aggregated Ethernet interfaces.

### LACPD_MEMORY_ALLOCATION_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to allocate memory for interface <em>interface-name</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Link Aggregation Control Protocol process (lacpd) could not allocate memory for the indicated interface.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### LACPD_TIMEOUT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th><em>error-message</em>: lacp current while timer expired current Receive State: CURRENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Link Aggregation Control Protocol process (lacpd) experienced timeout hence Receive State will change from Current to Expired/Defaulted.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the LFMD prefix. They are generated by the link-fault management process (lfmd), which supports Operation, Administration, and Maintenance (OAM) functions that are defined in the Institute of Electrical and Electronics Engineers (IEEE) 802.3ah standard for Ethernet interfaces.

**LFMD_RTSOCK_OPEN_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to open synchronous routing socket: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Ethernet Operation, Administration and Management link-fault management process (lfmd) could not open a routing socket to create a connection.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>
LIBESPTASK System Log Messages

This chapter describes messages with the LIBESPTASK prefix.

LIBESPTASK_SNMP_CONN_PROG

System Log Message

function-name: error-message

Description

The indicated error occurred while the process using libesptask was connecting to the Simple Network Management Protocol (SNMP) master agent.

Type

Error: An error occurred

Severity

info

Facility

ANY

Action

For more information, see KB18945.

LIBESPTASK_SNMP_CONN_QUIT

System Log Message

function-name: unable to connect to SNMP agent (pathname): error-message

Description

The process using libesptask could not connect to the indicated Simple Network Management Protocol (SNMP) master agent.

Type

Error: An error occurred

Severity

error

Facility

ANY

LIBESPTASK_SNMP_CONN_RETRY

System Log Message

function-name: reattempting connection to SNMP agent (pathname): error-message

Description

The process using libesptask tried again to connect to the indicated Simple Network Management Protocol (SNMP) master agent after a connection attempt failed.

Type

Error: An error occurred

Severity

error

Facility

ANY
LIBESPTASK_SNMP_INVALID_SOCKET

System Log Message  function-name: socket file-descriptor is invalid

Description  The process using libesptask could not send a message to a Simple Network Management Protocol (SNMP) master agent because the indicated socket is invalid.

Type  Error: An error occurred

Severity  error

Facility  ANY

LIBESPTASK_SNMP_SOCKOPT_BLOCK

System Log Message  function-name: unable to set nonblocking option

Description  The process using libesptask could not set a socket to nonblocking mode after connecting to the Simple Network Management Protocol (SNMP) master agent.

Type  Error: An error occurred

Severity  error

Facility  ANY

Action  For more information, see KB18946.

LIBESPTASK_SNMP_SOCKOPT_RECVBUF

System Log Message  function-name: unable to set recvbuf option

Description  The process using libesptask could not set the size of the kernel receive buffer, which allows it to accept the largest possible packet from the Simple Network Management Protocol (SNMP) master agent.

Type  Error: An error occurred

Severity  error

Facility  ANY

Action  For more information, see KB18946.

LIBESPTASK_SNMP_SOCKOPT_SENDBUF

System Log Message  function-name: unable to set sendbf option

Description  The process using libesptask could not set the size of the kernel send buffer, which allows it to send the largest possible packet to the Simple Network Management Protocol (SNMP) master agent.

Type  Error: An error occurred

Severity  error
**Facility**  ANY

**Action**  For more information, see [KB18947](#).
This chapter describes messages with the LIBJNX prefix. They are generated by processes that call routines in the libjuniper library, which includes routines for creating and managing child processes, parsing machine and interface addresses, tracing, file I/O, and other functions.

**LIBJNX_AUDIT_ERROR**

**System Log Message**  
function-name: error-message

**Description**  
A Junos process could not notify the audit process (auditd) about user activity related to system accounting, because of an interprocess communication (IPC) error.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
ANY

**Cause**  
Any of the following reasons: auditd was not running auditd was still initializing after a restart there was a socket error.

**Action**  
Contact your technical support representative.

**LIBJNX_COMPRESS_EXEC_FAILED**

**System Log Message**  
Unable to compress file 'filename' using program-name: error-message

**Description**  
A Junos process tried to use the indicated utility to create a compressed version of the indicated old system log file. The attempt failed for the indicated reason.

**Type**  
Error: An error occurred

**Severity**  
info

**Facility**  
ANY

**Cause**  
An internal software failure occurred.

**Action**  
Contact your technical support representative.
### LIBJNX_DEFAULT_IP_ADDR_NOT_SET

**System Log Message**
Unable to retrieve system default IP address: not set in kernel *(error-message)*

**Description**
A Junos process could not retrieve the system default IP address from the kernel, because the address is not defined there.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>critical</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
</tbody>
</table>

**Action**
Contact your technical support representative. For more information, see [KB18948](#).

### LIBJNX_EVLIB_FAILURE

**System Log Message**
`function-name: error-message`

**Description**
A Junos process called the indicated function in the event library. The function failed for the indicated reason.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>emergency</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
</tbody>
</table>

**Action**
Contact your technical support representative. For more information, see [KB18949](#).

### LIBJNX_EXEC_EXITED

**System Log Message**
Command stopped: PID `pid`, signal=`return-value'core-dump-status, command 'command`

**Description**
A Junos process created a child process to execute the indicated command for it. The child process stopped unexpectedly.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
</tbody>
</table>

**Action**
Contact your technical support representative.

### LIBJNX_EXEC_FAILED

**System Log Message**
Child exec failed for command 'command': *(error-message)*
### Description
A Junos process called the exec() system call while creating a child process to execute the indicated command for it. The system call failed.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**LIBJNX_EXEC_PIPE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to create pipes for command ‘command’: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A Junos process created a child process to execute the indicated command for it. Its attempt to create pipes for communication with the child failed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**LIBJNX_EXEC_SIGNALED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Command received signal: PID pid, signal signal-name core-dump-status, command 'command'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A Junos process created a child process to execute the indicated command for it. The child process received the indicated signal and exited.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18950.</td>
</tr>
</tbody>
</table>

**LIBJNX_EXEC_WEXIT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Command exited: PID pid, status return-value core-dump-status, command 'command'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A Junos process created a child process to execute the indicated command for it. The child process exited abnormally with the indicated exit code.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18950.</td>
</tr>
</tbody>
</table>

**LIBJNX_FILE_COPY_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to copy from <em>source-filename</em> to <em>destination-filename</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A Junos process could not copy the indicated source file to the indicated destination name or location.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LIBJNX_FILE_SYSTEM_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th><em>pathname</em>: <em>error-message</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A Junos process could not obtain status information for the indicated file system.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LIBJNX_FILE_SYSTEM_SPACE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Not enough space left on device <em>pathname</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A Junos process found that the indicated file system did not have the free space needed for storing temporary files.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LIBJNX_INVALID_CHASSIS_ID**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th><em>function-name</em>: invalid chassis ID <em>chassis-id</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A Junos process could not determine the hostname for the master Routing Engine on a routing node in a routing matrix, because the indicated chassis ID provided for the routing platform was invalid.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
### LIBJNX_INVALID_RE_SLOT_ID

**System Log Message**

function-name: invalid Routing Engine slot ID routing-engine-slot

**Description**

A Junos process could not determine the hostname for a Routing Engine, because the indicated Routing Engine slot ID was invalid.

**Type**

Error: An error occurred

**Severity**

error

**Facility**

ANY

### LIBJNX_INVALID_XML_DATA

**System Log Message**

Invalid XML data `data`

**Description**

The XML parser closed its session with a client application because the indicated XML data sent by the client was invalid.

**Type**

Error: An error occurred

**Severity**

error

**Facility**

ANY

### LIBJNX_LOGIN_ACCOUNTS_NOT_LOCKED

**System Log Message**

No user accounts were locked.

**Description**

No user accounts had been locked.

**Type**

Error: An error occurred

**Severity**

notice

**Facility**

ANY

### LIBJNX_LOGIN_ACCOUNT_LOCKED

**System Log Message**

Account for user 'username' has been locked out from logins

**Description**

Logins from a locked account are not permitted.

**Type**

Event: This message reports an event, not an error

**Severity**

notice

**Facility**

ANY

### LIBJNX_LOGIN_ACCOUNT_NOT_LOCKED

**System Log Message**

Account for user 'username' was not locked.

**Description**

The user account had not been locked.
LIBJNX_LOGIN_ACCOUNT_UNLOCKED

System Log Message  Account for user 'username' has been unlocked for logins
Description  Logins from an unlocked account are permitted again.

LIBJNX_LOGIN_ACCT_NOT_UNLOCKED

System Log Message  Failed to unlock account for user 'username'.
Description  An attempt to unlock the user account failed.

LIBJNX_PRIV_LOWER_FAILED

System Log Message  Unable to lower privilege level: error-message
Description  A Junos process attempted to revert its effective user ID to the original user. The attempt failed.

LIBJNX_PRIV_RAISE_FAILED

System Log Message  Unable to raise privilege level: error-message
Description  A Junos process attempted to set its effective user ID to the root user. The attempt failed.
Cause  An internal software failure occurred.

Action  Contact your technical support representative.

LIBJNX_REPLICATE_RCP_ERROR

System Log Message  operation: operational-status
Description  The rcp command failed during replication.

Type  Error: An error occurred
Severity  error
Facility  ANY
Cause  An internal software failure occurred.

Action  Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18951.

LIBJNX_REPLICATE_RCP_EXEC_FAILED

System Log Message  rcp failed: error-message
Description  A Junos process created a child process to copy a file to the other Routing Engine. The copy operation failed.

Type  Error: An error occurred
Severity  error
Facility  ANY
Cause  An internal software failure occurred.

Action  Contact your technical support representative.

LIBJNX_SNMP_ENGINE_FILE_FAILURE

System Log Message  function-name: operation: operation filename: error-message
Description  A Junos process could not perform the indicated operation on the indicated SNMP engine data file.

Type  Error: An error occurred
Severity  critical
Facility  ANY
Cause  An internal software failure occurred.

Action  Contact your technical support representative. For more information, see KB18952.
LIBJNX_SNMP_ENGINE_SCAN_FAILURE


Description: A Junos process could not perform the scan operation on the indicated SNMP engine data file.

Type: Error: An error occurred
Severity: critical
Facility: ANY
Cause: An internal software failure occurred.
Action: Contact your technical support representative. For more information, see KB18953.

LIBJNX_SOCKET_FAILURE

System Log Message: operation: error-message

Description: Various system processes use Transmission Control Protocol (TCP), User Datagram Protocol (UDP), and Reliable Data Protocol (RDP) sockets. The indicated socket operation failed for the indicated reason.

Type: Error: An error occurred
Severity: emergency
Facility: ANY
Cause: An internal software failure occurred.
Action: Contact your technical support representative. For more information, see KB18954.

LIBJNX_XML_DECODE_FAILED

System Log Message: Invalid XML encoding 'data', skipping to ':

Description: The XML parser ignored the indicated XML data sent by a client application, because the XML encoding of the data was invalid. The parser skipped ahead to the likely endpoint for the invalid data.

Type: Error: An error occurred
Severity: error
Facility: ANY
Cause: A possible cause is improper escaping of character constants in the data stream.
Action: Contact your technical support representative.
This chapter describes messages with the **LIBJSNMP** prefix. They are generated by the libjsnmp process.

### LIBJSNMP_CTX_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>snmp_ms_trap_api return argument</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Sub-agents SNMP context either too long or of zero size</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### LIBJSNMP_IPC_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>argument: sock:port (type:port-type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Error in SNMP related IPC messages size mismatch, corruption or memory failure</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### LIBJSNMP_IPC_READ_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to read inbound-bytes bytes: sock:port (type:port-type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Error in reading IPC messages during SNMP related messaging</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**LIBJSNMP_MTHD_API_UNKNOWN_TYPE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>unknown oev type: tag-type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Internal error - Unknown SNMP object indexing type</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**LIBJSNMP_NS_LOG_CRIT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>CRIT: argument</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Logs for SNMP critical message</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>critical</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**LIBJSNMP_NS_LOG_EMERG**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>EMERG: argument</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>SNMP errors with LOG_EMERG as severity</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>emergency</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
</tbody>
</table>
**LIBJSNMP_NS_LOG_ERR**

**System Log Message**  ERR: argument

**Description**  SNMP errors with LOG_ERR as severity

**Type**  Error: An error occurred

**Severity**  error

**Facility**  ANY

**Cause**  An internal software failure occurred.

**Action**  Contact your technical support representative.

**LIBJSNMP_OID_GEN_FAILED**

**System Log Message**  Unable to generate OID: object-name (system-error-message)

**Description**  Unable to translate SNMP object string to OID

**Type**  Error: An error occurred

**Severity**  error

**Facility**  ANY

**Cause**  An internal software failure occurred.

**Action**  Contact your technical support representative.

**LIBJSNMP_READ_LEN_ERR**

**System Log Message**  error error-code reading routing socket

**Description**  Failure while reading rtsocket for SNMP related operation

**Type**  Error: An error occurred

**Severity**  error

**Facility**  ANY

**Cause**  An internal software failure occurred.

**Action**  Contact your technical support representative.

**LIBJSNMP_RTMSIZE_MISMATCH_ERR**

**System Log Message**  routing socket msg size argument of argument1 (call buf = argument2)
### Description
Error in message length while reading rtsocket for SNMP related operation

#### Type
Error: An error occurred

#### Severity
error

#### Facility
ANY

#### Cause
An internal software failure occurred.

#### Action
Contact your technical support representative.

### System Log Message
**LIBJSNMP_SMS_HDR_ERR**

#### System Log Message
problem with hdr size (*record-size*) or msg size (*size*)

#### Description
Discrepancy in sub-agent message length and header size

#### Type
Error: An error occurred

#### Severity
error

#### Facility
ANY

#### Cause
An internal software failure occurred.

#### Action
Contact your technical support representative.

### System Log Message
**LIBJSNMP_SMS_MSG_ERR**

#### System Log Message
received *received-value* bytes, expected *expected-value* bytes

#### Description
Various discrepancies in sub-agent message lengths. SNMP Message errors

#### Type
Error: An error occurred

#### Severity
error

#### Facility
ANY

#### Cause
An internal software failure occurred.

#### Action
Contact your technical support representative.

### System Log Message
**LIBJSNMP_SOCKET_OPEN_ERR**

#### System Log Message
routing socket open error argument

#### Description
Failure in opening routing socket

#### Type
Error: An error occurred

#### Severity
error

#### Facility
ANY
**LIBJSNMP_SOCKET_VER_MISMATCH**

System Log Message: routing socket version mismatch
Description: Routing socket version mismatch between kernel and application

- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: ANY
- **Cause**: An internal software failure occurred.
- **Action**: Contact your technical support representative.

**LIBJSNMP_TRAP_API_FAILURE**

System Log Message: `function-name`: Trap API: `argument argument1`
Description: Misc. error while creating SNMP traps

- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: ANY
- **Cause**: An internal software failure occurred.
- **Action**: Contact your technical support representative.

**LIBJSNMP_TRAP_UTILS_ERR**

System Log Message: unknown trap object: `object-name`
Description: Trying to send invalid object as varbind while creating SNMP traps

- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: ANY
- **Cause**: An internal software failure occurred.
- **Action**: Contact your technical support representative.
LIBMSPRPC System Log Messages

This chapter describes messages with the `LIBMSPRPC` prefix. They are generated by the `mspinfo` process, which is responsible for RPC communication between the Routing Engine (RE) and the Multiservices PICs.

**LIBMSPRPC_CLIENT_INIT_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Can't create msprpc client: <code>error-message</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A Junos process (<code>mspinfo</code>) could not establish initialization of the RPC client.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>Possible reasons: process is out of memory</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see <a href="#">KB18956</a>.</td>
</tr>
</tbody>
</table>

**LIBMSPRPC_CLIENT_KCOM_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Can't initialize kcom for msprpc client: <code>error-message</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A Junos process (<code>mspinfo</code>) could not establish initialization of the kcom subsystem.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>Possible reasons: can't initialize kcom services.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see <a href="#">KB18957</a>.</td>
</tr>
</tbody>
</table>

**LIBMSPRPC_CLIENT_KCOM_NO_IF**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>No active extension-provider interfaces</th>
</tr>
</thead>
</table>
Description: A Junos process (mspinfo) could not find any configured and active extension-provider interfaces.

Type: Error: An error occurred
Severity: notice
Facility: ANY
Cause: Possible reasons: can't initialize kcom services.

Action: Contact your technical support representative. For more information, see KB18958.

LIBMSPRPC_CLIENT_NO_CONNECTION

System Log Message: Failed connecting fpc=fpc-slot, pic=pic-slot

Description: Remote execution of the command given from the RE to the PIC failed, can not connect to the PIC.

Type: Error: An error occurred
Severity: notice
Facility: ANY
Cause: Possible reasons: a) PIC appears online but is not responding b) msprpc server is not running on the PIC.

Action: Contact your technical support representative. For more information, see KB18959.

LIBMSPRPC_CLIENT_NO_REPLY

System Log Message: Error executing "command": no reply from the PIC

Description: Remote execution of the command given from the RE to the PIC failed, no reply from the PIC.

Type: Error: An error occurred
Severity: notice
Facility: ANY
Cause: Possible reasons: a) wrong command b) insufficient permissions c) wrong arguments d) PIC appears online but is not responding e) msprpc server is not running on the PIC.

Action: Contact your technical support representative. For more information, see KB18960.

LIBMSPRPC_CLIENT_PIC_DOWN

System Log Message: Interface interface-name is down

Description: Remote execution of the command given from the RE to the PIC failed, the PIC is down.
**LIBMSPRPC_CLIENT_WRONG_OUTPUT**

**System Log Message**  
Error executing "command": output length exceeds correct-length characters

**Description**  
Remote execution of the command given from the RE to the PIC failed, PIC returned unexpected output.

**Cause**  
Possible reasons: the given PIC is not responding and/or is offline.

**Action**  
Contact your technical support representative. For more information, see KB18961.

---

**LIBMSPRPC_CLIENT_WRONG_OUTPUT**

**System Log Message**  
Error executing "command": output length exceeds correct-length characters

**Description**  
Remote execution of the command given from the RE to the PIC failed, PIC returned unexpected output.

**Cause**  
Possible reasons: the given PIC is not responding and/or is offline.

**Action**  
Contact your technical support representative. For more information, see KB18961.
This chapter describes messages with the LICENSE prefix. They are generated by processes that call routines in the liblicense library, which provide software license management functions on a routing platform.

**LICENSE_CONNECT_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection could not be set up: error-message</td>
<td>The indicated error occurred because a connection to the license-check process was not established.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LICENSE_CONN_TO_LI_CHECK_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process could not connect to license-check in maximum-value tries; giving up</td>
<td>The indicated process failed to connect to the license-check process after the indicated maximum tries.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LICENSE_CONN_TO_LI_CHECK_SUCCESS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connected to license-check</td>
<td>The indicated process successfully connected to the license-check process.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>
LICENSE_EXPIRED

System Log Message  License for feature feature-name(feature-id) expired
Description  The time-based license for the indicated feature expired. The feature remains inactive until a new license is installed.

Type  Event: This message reports an event, not an error
Severity  alert
Facility  LOG_DAEMON
Action  For more information, see KB18966.

LICENSE_EXPIRED_KEY_DELETED

System Log Message  License key "filename" has expired.
Description  The indicated license-key has been removed from the file-system.

Type  Event: This message reports an event, not an error
Severity  notice
Facility  ANY

LICENSE_GRACE_PERIOD_APPROACHING

System Log Message  License grace period for feature feature-name(feature-id) will expire in time
Description  The indicated amount of time remained before the license grace period for the indicated feature would expire. If a new license was not installed within that time, the feature became inactive.

Type  Event: This message reports an event, not an error
Severity  alert
Facility  LOG_DAEMON
Action  For more information, see KB18967.

LICENSE_GRACE_PERIOD_EXCEEDED

System Log Message  License grace period for feature feature-name(feature-id) will expire in time (limit = maximum-value)
Description  The grace period for a scale license is about to expire. Unless the scale license is upgraded, the license will scale back to the licensed limit once the grace period expires.

Type  Event: This message reports an event, not an error
Severity  alert
Facility  LOG_DAEMON
LICENSE_GRACE_PERIOD_EXPIRED

System Log Message: License grace period for feature feature-name(feature-id) has expired.
Description: The grace period for a licensable feature has expired. Strict license enforcement will remain active until a new license is installed.
Type: Event: This message reports an event, not an error
Severity: alert
Facility: LOG_DAEMON
Action: For more information, see KB18968.

LICENSE_LIST_MANAGEMENT

System Log Message: Error occurred for feature feature-name: error-message (system error: system-error-message)
Description: The management process (mgd) could not complete a license management command related to the indicated feature. If a system error is reported, it caused the problem.
Type: Error: An error occurred
Severity: error
Facility: ANY

LICENSE_NEARING_EXPIRY

System Log Message: License for feature feature-name(feature-id) expires in time
Description: At the time this message was logged, the indicated amount of time remained before the time-based license for the indicated feature would expire. If a new license was not installed within that time, the feature became inactive.
Type: Event: This message reports an event, not an error
Severity: alert
Facility: LOG_DAEMON
Action: For more information, see KB18970.

LICENSE_READ_ERROR

System Log Message: recvmsg() failed: error-message
Description: The indicated process failed to read an event sent to it, for the indicated reason.
Type: Error: An error occurred
Severity: error
Facility   ANY

LICENSE_REG_ERROR
System Log Message  Registration request failed: current-value
Description  The license registration request failed. A request needs to be resent to the license-check process.
Type  Error: An error occurred
Severity  error
Facility  ANY

LICENSE_SHM_ATTACH_FAILURE
System Log Message  Failed to attach shared memory
Description  The indicated process failed to attach the shared memory.
Type  Error: An error occurred
Severity  error
Facility  ANY

LICENSE_SHM_CREATE_FAILURE
System Log Message  Failed to allocate shared memory
Description  The indicated process failed to allocate the shared memory.
Type  Error: An error occurred
Severity  error
Facility  ANY

LICENSE_SHM_DETACH_FAILURE
System Log Message  Failed to detach shared memory error-argument
Description  The indicated process failed to release the shared memory.
Type  Error: An error occurred
Severity  error
Facility  ANY

LICENSE_SHM_FILE_OPEN_FAILURE
System Log Message  Failed to open the shared memory file filename, errno=error-message
Description  The indicated process encountered a system error while attempting to open the shared memory file.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LICENSE_SHM_KEY_CREATE_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to create key for shared memory from the file <code>filename</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated process encountered a system error while creating an IPC identifier from a pathname.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LICENSE_SHM_SCALE_READ_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to read license scale usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated process failed to read scale usage data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LICENSE_SHM_SCALE_UPDATE_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to update license scale usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated process failed to update scale usage data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LICENSE_SIGNATURE_VERIFY_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Signature verification failed: <code>error-message</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The management process (mgd) could not verify a license because the license's signature was invalid.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LICENSE_UNKNOWN_RESPONSE_TYPE**

| System Log Message       | unknown message type received: `current-value` |
### Description
An unknown response type was received from the license-check process.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**LICENSE_VERIFICATION_FILE_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>License verification failed for file 'error-message': filename (system error: system-error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The management process (mgd) could not verify the indicated license file because of the indicated internal file-handling error.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>
LLDPD System Log Messages

This chapter describes messages with the **LLDPD** prefix. They are generated by the link layer discovery protocol process (lldpd) which is used by EX-series switches to learn and distribute device information on network links. The information allows the switch to quickly identify a variety of devices, including IP telephones, resulting in a LAN that interoperates smoothly and efficiently.

**LLDPD_SYSTEM**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>reason: error-message</strong></td>
<td>A system call made by the Link Layer Discovery Protocol process (LLDP) failed.</td>
</tr>
</tbody>
</table>

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_KERN

**Cause** It is possible that the kernel lacked the resources to fulfill the request. LLDPD will recover.

**Action** For more information, see KB18971.

**Action** For more information, see KB18971.
CHAPTER 69

LOGIN System Log Messages

This chapter describes messages with the **LOGIN** prefix. They are generated by the login process (login), which performs authentication for Telnet sessions.

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LOGIN_ABORTED</strong></td>
<td>Client aborted login</td>
<td>Event: This message reports an event, not an error</td>
<td>info</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>LOGIN_ATTEMPTS_THRESHOLD</strong></td>
<td>Threshold for unsuccessful authentication attempts (<em>limit</em>) reached by user <em>username</em></td>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>LOGIN_FAILED</strong></td>
<td>Login failed for user <em>username</em> from host <em>source-address</em></td>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>LOGIN_FAILED_LIMIT</strong></td>
<td>Specified number of login failures (<em>limit</em>) for user <em>username</em> reached from <em>source-address</em></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**LOGIN_FAILED_SET_CONTEXT**

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**System Log Message**

Failed to set context for user *username*

**Description**
The login process (login) could not set login context properties for the indicated user and cancelled the authentication attempt.

**LOGIN_FAILED_SET_LOGIN**

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**System Log Message**

Failed to set login ID for user *username*: *error-message*

**Description**
The login process (login) could not assume the user ID of the indicated user and cancelled the authentication attempt.

**LOGIN_HOSTNAME_UNRESOLVED**

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**System Log Message**

Unable to resolve hostname *hostname*: *error-message*

**Description**
The login process (login) could not resolve the indicated remote hostname for the indicated reason.

**LOGIN_INFORMATION**

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
</tbody>
</table>

**System Log Message**

User *username* logged in from host *hostname* on device *tty-name*

**Description**
The indicated username was authenticated and logged into the shell specified for it in the password file.
### LOGIN_MALFORMED_USER

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Invalid username: <em>username</em></td>
</tr>
<tr>
<td>Description</td>
<td>The indicated username was invalid.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

### LOGIN_PAM_AUTHENTICATION_ERROR

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Failed password for user <em>username</em></td>
</tr>
<tr>
<td>Description</td>
<td>The login process (login) could not authenticate the indicated user via PAM.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

### LOGIN_PAM_ERROR

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Failure while authenticating user <em>username</em>: <em>error-message</em></td>
</tr>
<tr>
<td>Description</td>
<td>The PAM authentication process failed for the indicated username, for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

### LOGIN_PAM_MAX_RETRIES

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Too many retries while authenticating user <em>username</em></td>
</tr>
<tr>
<td>Description</td>
<td>The number of failed PAM authentication attempts for the indicated user exceeded the maximum limit.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

### LOGIN_PAM_STOP

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Failed to end PAM session: <em>error-message</em></td>
</tr>
<tr>
<td>Description</td>
<td>The login process (login) could not end the PAM authentication session, for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Severity</td>
<td></td>
</tr>
<tr>
<td>Facility</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**LOGIN_PAM_USER_UNKNOWN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Attempt to authenticate unknown user <em>username</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The login process (login) failed to authenticate the indicated user via PAM because the username was unknown.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**LOGIN_PASSWORD_EXPIRED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Forcing change of expired password for user <em>username</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The password provided for the indicated username was expired and the user was prompted to set a new one.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**LOGIN_REFUSED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Login of user <em>username</em> from host <em>hostname</em> on device <em>tty-name</em> was refused: reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A login attempt for the indicated username was rejected for the indicated reason.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**LOGIN_ROOT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>User <em>username</em> logged in as root from host <em>hostname</em> on device <em>tty-name</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated username was authenticated as a superuser and logged into the shell specified for the root user in the password file.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>
### LOGIN_TIMED_OUT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Login attempt timed out after <code>duration</code> seconds</td>
<td>A login attempt failed to complete in the maximum time allowed.</td>
<td>Event: This message reports an event, not an error</td>
<td>info</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>
This chapter describes messages with the LPDFD prefix. They are generated by the local policy decision function process (lpdfd). A policy decision function is a component in the IP multimedia subsystem that controls traffic entering the packet-switched network by allocating or denying IP bearer resources.

**LPDFD_DYN_PDB_OPEN_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to open profile database: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The local policy decision function process (lpdfd) failed to open the profile database.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB18972.</td>
</tr>
</tbody>
</table>

**LPDFD_DYN_REGISTER_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Dynamic config register failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The local policy decision function process (lpdfd) failed to register with the dynamic configuration subsystem.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB18973.</td>
</tr>
</tbody>
</table>

**LPDFD_PCONN_SERVER**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>argument: Cannot retrieve peer info for session. Error: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The local policy decision function process (lpdfd) pconn server failed to initialize</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>----------</td>
<td>------------</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the **LRMUX** prefix. They are generated by the logical router multiplexer process (**lrmuxd**), which manages the multiple instances of the routing protocols process (**rpd**) on a machine running logical routers.

### LRMUX_FAILED_EXEC

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to exec command</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The Logical System Multiplexer process (<strong>lrmuxd</strong>) issued the exec() system call to start a routing process (<strong>rpd</strong>) to check the validity of the configuration. The system call failed.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### LRMUX_LRPD_PID_LOCK

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Lock not found on PID file <strong>filename</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The Logical System Multiplexer process (<strong>lrmuxd</strong>) could not find a lock for a logical system.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>A logical system process (<strong>rpd</strong>) died.</td>
</tr>
</tbody>
</table>

### LRMUX_LRPD_PID_OPEN

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to open PID file <strong>filename</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The Logical System Multiplexer process (<strong>lrmuxd</strong>) could not open the indicated PID lock file for a logical system process (<strong>rpd</strong>).</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
LRMUX_LRPD_SEND_HUP
System Log Message: Unable to send signal to PID pid
Description: The Logical System Multiplexer process (lrmuxd) could not forward a SIGHUP signal to a logical system process (rpd).
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

LRMUX_PID_LOCK
System Log Message: Unable to lock PID file 'filename'
Description: The Logical System Multiplexer process (lrmuxd) attempted to lock the file that records its process ID (PID), which serves to prevent multiple instances of the lrmuxd process from running simultaneously. The attempt failed.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
CHAPTER 72

LSYSD System Log Messages

This chapter describes messages with the LSYSD prefix. They are generated by the logical system process (lsysd), which handles logical systems on devices running Junos OS.

**LSYSD_CFG_RD_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>lsysd could not successfully read/parse configuration db</td>
<td>The logical system process (lsysd) tried to read configurations when daemon restarts, it fails here for whatever reason</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**LSYSD_INIT_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>lsysd failed to register or open rtsock</td>
<td>The logical system process (lsysd) did not initialize, because it could not make rtsock connection.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**LSYSD_LICENSE_INIT_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>lsysd license control feature failed</td>
<td>The logical system process (lsysd) license feature failed because it could not register to license library.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
**LSYSD_SEC_NODE_COMP_SYNC_FAILED**

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Could not sync their state on backup RE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>One or more subcomponents of the logical system daemon (lsysd) failed to synchronize their state when the lsysd restarted on secondary mode.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
## MCSN System Log Messages

This chapter describes messages with the **MCSN** prefix. They are generated by the multicast snooping process (mcsnoopd), which enables a Layer 2 device to examine the content of Layer 3 packets to determine which actions to perform.

### MCSN_ABORT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>abort executable-name[pid] version version built by builder on date: error-message</td>
<td>The multicast snooping process (mcsnoopd) terminated because of an internal error.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
<td>Examine the messages that immediately follow this message in the system log for information about possible causes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Cause**

An internal software failure occurred.

### MCSN_ACTIVE_TERMINATE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exiting with active tasks: task-name</td>
<td>After receiving multiple termination requests, the multicast snooping process (mcsnoopd) exited without performing the indicated cleanup tasks.</td>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### MCSN_ASSERT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assertion failed executable-name[pid]: file &quot;source-filename&quot;, line line-number: &quot;message&quot;</td>
<td>The source code for the multicast snooping process (mcsnoopd) includes internal self-consistency checks. A check failed at the indicated line number in the indicated source file, causing the instance of mcsnoopd that was using the indicated binary and</td>
<td></td>
<td></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
had the indicated process ID (PID) to terminate. The process created a diagnostic core dump for analysis by technical support personnel.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Cause**  An internal software failure occurred.

**Action**  Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core dump, if requested.

### MCSN_ASSERT_SOFT

**System Log Message**  Soft assertion failed executable-name[pid]: file "source-filename", line line-number: "message", daemon continued running

**Description**  The source code for the multicast snooping process (mcsnoopd) includes internal self-consistency checks. A check failed at the indicated line number in the indicated source file, but the instance of mcsnoopd that was using the indicated binary and had the indicated process ID (PID) continued running. The process created a diagnostic core dump for analysis by technical support personnel.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Cause**  An internal software failure occurred.

**Action**  Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core dump, if requested.

### MCSN_EXIT

**System Log Message**  Exit executable-name[pid] version version built by builder on date, caller address

**Description**  The multicast snooping process (mcsnoopd) exited, either in response to a user request or because of a system error.

**Type**  Event: This message reports an event, not an error  
**Severity**  notice  
**Facility**  LOG_DAEMON  
**Cause**  A system resource was unavailable, mcsnoopd did not understand an error, or a user terminated the process.
| Action | Examine the messages that immediately follow this message in the system log for information about possible causes. |

<table>
<thead>
<tr>
<th><strong>MCSN_SCHED_CALLBACK_LONGRUNTIME</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
<tr>
<td><strong>Cause</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>MCSN_SCHED_CUMULATIVE_LNGRUNTIME</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
<tr>
<td><strong>Cause</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>MCSN_SIGNAL_TERMINATE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Severity</strong></td>
</tr>
<tr>
<td><strong>Facility</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>MCSN_START</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>Severity</td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td>Facility</td>
</tr>
</tbody>
</table>

### MCSN_SYSTEM

**System Log Message**  
*reason: error-message*

**Description**  
A system call made by the multicast snooping process (mcsnoopd) failed.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
It is possible that the kernel lacked the resources to fulfill the request. The mcsnoopd process will recover.

### MCSN_TASK_BEGIN

**System Log Message**  
Commencing routing updates, version *mcsnoopd-version*, built *date* by *builder*

**Description**  
The multicast snooping process (mcsnoopd) started.

**Type**  
Event: This message reports an event, not an error

**Severity**  
otice

**Facility**  
LOG_DAEMON

### MCSN_TASK_CHILDKILLED

**System Log Message**  
*task-name* terminated by SIG*signal-name* core-dump-status

**Description**  
While a child process of the multicast snooping process (mcsnoopd) was performing the indicated operation, it terminated in response to the indicated signal.

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_DAEMON

### MCSN_TASK_CHILDSTOPPED

**System Log Message**  
*task-name* stopped by SIG*signal-name*

**Description**  
While a child process of the multicast snooping process (mcsnoopd) was performing the indicated operation, it stopped in response to the indicated signal.

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_DAEMON
### MCSN_TASK_FORK

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to fork task-name: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The multicast snooping process failed to create the indicated child process.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### MCSN_TASK_GETWD

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>getwd: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The getwd() system call made by the multicast snooping process (mcsnooqd) failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>It is possible that the kernel lacked the resources to fulfill the request. The mcsnooqd process will recover.</td>
</tr>
</tbody>
</table>

### MCSN_TASK_MASTERSHIP

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Assuming mastership</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The multicast snooping process (mcsnooqd) became active when the Routing Engine on which it was running assumed mastership.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### MCSN_TASK_NOREINIT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Reinitialization not possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The multicast snooping process (mcsnooqd) failed to reinitialize as requested, because it was running in a state that did not allow reconfiguration.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### MCSN_TASK_REINIT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Reinitializing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Reinitializing</td>
</tr>
</tbody>
</table>
Description: The multicast snooping process (mcsnoopt) reinitialized.

Type: Event: This message reports an event, not an error

Severity: info

Facility: LOG_DAEMON

**MCSN_TASK_SIGNALIGNORE**

**System Log Message**: sigaction(SIGsignal-name): error-message

Description: The multicast snooping process (mcsnoopt) informed the kernel that it wished to ignore the indicated signal, but the kernel failed to process the request.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON
MCSNOOPD System Log Messages

This chapter describes messages with the MCSNOOPD prefix. They are generated by the multicast snooping process (mcsnoopd), which enables a Layer 2 device to examine the content of Layer 3 packets to determine which actions to perform.

**MCSNOOPD_MGMT_TIMEOUT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection to management peer process-name timed out waiting for input</td>
<td>The connection between the snooping process (mcsnoopd) and the indicated management process (mgd) timed out before input arrived from the mgd process.</td>
<td>Error: An error occurred</td>
<td>warning</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
MIB2D System Log Messages

This chapter describes messages with the MIB2D prefix. They are generated by the Management Information Base II (MIB II) process (mib2d), which services requests for information gathered and reported by the Simple Network Management Protocol (SNMP).

**MIB2D_ATM_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The MIB II process (mib2d) could not process ATM-related information.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**MIB2D_CONFIG_CHECK_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: configuration database has errors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The portion of the candidate configuration related to the MIB II process (mib2d) was checked for validity during a 'commit' operation. The check failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The configuration was invalid.</td>
</tr>
<tr>
<td>Action</td>
<td>Correct the invalid portion of the configuration as described in the error message on the console.</td>
</tr>
</tbody>
</table>

**MIB2D_FILE_OPEN_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to open file 'filename': error-message</th>
</tr>
</thead>
</table>
The MIB II process (mib2d) could not open the indicated file.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: An internal software failure occurred.
Action: Contact your technical support representative.

MIB2D_IFD_IFDINDEX_FAILURE
System Log Message: Ifd index assigned to interface-name changed from old-value to new-value, removing old interface
Description: There was a change to the ifd Index assigned to the indicated existing interface.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: An internal software failure occurred.
Action: Contact your technical support representative.

MIB2D_IFD_IFINDEX_FAILURE
System Log Message: SNMP index assigned to interface-name changed from old-value to new-value
Description: There was a change to the SNMP ifIndex assigned to the indicated existing interface.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: An internal software failure occurred.
Action: Contact your technical support representative.

MIB2D_IFL_IFINDEX_FAILURE
System Log Message: SNMP index assigned to interface-name.interface-unit changed from old-value to new-value
Description: There was a change to the SNMP ifIndex assigned to the indicated existing interface.
Type: Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Cause  An internal software failure occurred.
Action  Contact your technical support representative.

### MIB2D_IF_FLAPPING_MISSING

**System Log Message**  
`function-name: interface flapping missing: ifname(interface-name) old if_anydown_flaps(old-value) if_anydown_flaps(new-value)`

**Description**  
The MIB II process (mib2d) is blocked on the kernel for synchronous message. If there is an interface flap (down and then back up again) in the time mib2d is blocked in the kernel, mib2d will miss asynchronous messages from the kernel about state changes.

**Type**  
Event: This message reports an event, not an error

**Severity**  
notice

**Facility**  
LOG_DAEMON

### MIB2D_KVM_FAILURE

**System Log Message**  
`function-name: reason: error-message`

**Description**  
A call to the indicated function in the kernel virtual memory library failed.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
An internal software failure occurred.

**Action**  
Contact your technical support representative.

### MIB2D_PMON_OVERLOAD_CLEARED_TRAP

**System Log Message**  
Overload name: overload-name, interface: interface-name

**Description**  
The MIB II process (mib2d) generated a jnxPMonOverloadCleared trap when it detected the clearing of an overload condition on the indicated monitoring services interface.

**Type**  
Event: This message reports an event, not an error

**Severity**  
warning

**Facility**  
LOG_DAEMON

### MIB2D_PMON_OVERLOAD_SET_TRAP

**System Log Message**  
Overload name: overload-name, interface: interface-name
Description: The MIB II process (mib2d) generated a jnxPMonOverloadSet trap when it detected an overload condition on the indicated monitoring services interface.

Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON

MIB2D_RTSLIB_READ_FAILURE

System Log Message: function-name: failed in operation object-name: index (error-message)
Description: A call to the indicated function in the routing socket library failed during the indicated operation on the indicated object.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: An internal software failure occurred.
Action: Contact your technical support representative. For more information, see KB18978.

MIB2D_RTSLIB_SEQ_MISMATCH

System Log Message: function-name: sequence mismatch (expected-value, received-value), resyncing
Description: The indicated function in the routing socket library detected a sequence number mismatch. The MIB II process (mib2d) will resynchronize its data with the Junos kernel.

Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_DAEMON

MIB2D_SNMP_INDEX_ASSIGN

System Log Message: function-name: reason snmpid(snmp-interface-index) ifname(interface-name.interface-unit)
Description: MIB2D can not assign snmp index for each interface.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: An internal software failure occurred.
Action: Contact your technical support representative. For more information, see KB18979.
MIB2D_SNMP_INDEX_DUPLICATE

System Log Message  
\textit{function-name}: duplicate snmpid(snmp-interface-index) old
ifname(interface-name.interface-unit) new
ifname(new-interface-name.kernel-interface-unit)

Description  
The SNMP index for first interface name was assigned the same SNMP index as second interface name.

Type  
Error: An error occurred

Severity  
emergency

Facility  
LOG_DAEMON

Cause  
An internal software failure occurred.

Action  
Contact your technical support representative. For more information, see KB18980.

MIB2D_SNMP_INDEX_UPDATE_STAT

System Log Message  
\textit{function-name reason filename}

Description  
MIB2D can not get the status of SNMP index file

Type  
Error: An error occurred

Severity  
error

Facility  
LOG_DAEMON

Cause  
An internal software failure occurred.

Action  
Contact your technical support representative. For more information, see KB18981.

MIB2D_SNMP_INDEX_WRITE

System Log Message  
\textit{function-name: reason filename}

Description  
MIB2D can not write into a file containing all the indices

Type  
Error: An error occurred

Severity  
error

Facility  
LOG_DAEMON

Cause  
An internal software failure occurred.

Action  
Contact your technical support representative. For more information, see KB18982.

MIB2D_SYSCTL_FAILURE

System Log Message  
\textit{function-name: sysctl type failed: error-message}
A request to the Junos kernel for system data failed.

**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_DAEMON  
**Cause**: An internal software failure occurred.

**Action**: Contact your technical support representative.

### MIB2D_TRAP_HEADER_FAILURE

**System Log Message**: function-name: trap_request_header failed  
**Description**: The MIB II process (mib2d) could not allocate a trap header.

**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_DAEMON  
**Cause**: The Routing Engine is low on memory.

**Action**: Contact your technical support representative.

### MIB2D_TRAP_SEND_FAILURE

**System Log Message**: function-name: trap_request_send: error-message  
**Description**: The MIB II process (mib2d) could not send a trap header.

**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: LOG_DAEMON  
**Cause**: An internal software failure occurred.

**Action**: Contact your technical support representative.
CHAPTER 76

MPLS_OAM System Log Messages

This chapter describes messages with the MPLS_OAM prefix. They are generated by the Multiprotocol Label Switching (MPLS) Operation, Administration, and Maintenance (OAM) process (mplsoamd), which supports traceroute operations for LDP label-switched paths (LSPs).

MPLS_OAM_FANOUT_LIMIT_REACHED

System Log Message  fec-address: traceroute fanout limit was reached
Description  The traceroute fanout limit was reached.
Type  Error: An error occurred
Severity  info
Facility  LOG_DAEMON
Action  Raise the traceroute fanout limit parameter.

MPLS_OAM_INVALID_SOURCE_ADDRESS

System Log Message  fec-address: source address ip-address is invalid
Description  The traceroute utility is configured to use an invalid source address.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Configure traceroute to use a valid source address.

MPLS_OAM_PATH_LIMIT_REACHED

System Log Message  fec-address: traceroute path limit was reached
Description  The traceroute path limit was reached.
Type  Error: An error occurred
Severity  info
Facility LOG_DAEMON
Action Raise the traceroute path limit parameter.

**MPLS_OAM_SEND_FAILED**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>fec-address: unable to send probe (error-message)</td>
</tr>
<tr>
<td>Description</td>
<td>The Multiprotocol Label Switching (MPLS) Operation, Administration, and Maintenance (OAM) process (mplsoamd) could not send a traceroute probe packet.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**MPLS_OAM_SOCKET_OPEN_FAILED**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>fec-address: unable to open socket (error-message)</td>
</tr>
<tr>
<td>Description</td>
<td>The Multiprotocol Label Switching (MPLS) Operation, Administration, and Maintenance (OAM) process (mplsoamd) could not open a socket to initiate a traceroute operation.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**MPLS_OAM_SOCKET_SELECT_FAILED**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>fec-address: unable to select socket (error-message)</td>
</tr>
<tr>
<td>Description</td>
<td>The Multiprotocol Label Switching (MPLS) Operation, Administration, and Maintenance (OAM) process (mplsoamd) could not select a socket to initiate a traceroute operation.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**MPLS_OAM_TRACEROUTE_INTERRUPTED**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>fec-address: topology update interrupted traceroute</td>
</tr>
<tr>
<td>Description</td>
<td>A traceroute operation was interrupted by a topology change.</td>
</tr>
</tbody>
</table>
Type Event: This message reports an event, not an error
Severity info
Facility LOG_DAEMON
Action Wait for the next scheduled traceroute operation.

**MPLS_OAM_TTL_EXPIRED**

**System Log Message** fec-address: traceroute TTL limit was reached

**Description** The time-to-live (TTL) limit for the traceroute utility was reached.

Type Error: An error occurred
Severity info
Facility LOG_DAEMON
Action Raise the traceroute TTL limit parameter.

**MPLS_OAM_UNREACHABLE**

**System Log Message** fec-address: traceroute encountered unreachable node

**Description** The traceroute utility encountered a node that does not have a computable destination address. The Multiprotocol Label Switching (MPLS) Operation, Administration, and Maintenance (OAM) process (mplsoamd) therefore could not send a probe to the node.

Type Error: An error occurred
Severity info
Facility LOG_DAEMON
Action Contact your technical support representative.
This chapter describes messages with the **NEXTHOP** prefix. They are generated by the process that decides the next hop.

### NEXTHOP_COMPONENTS_LIMIT_REACHED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limit on components reached for flood next hop for routing instance 'routing-instance'</td>
<td>The limit on the number of logical interfaces for a next hop was reached for the indicated routing instance and bridging domain. Only a subset of new interfaces were added to the next hop.</td>
<td>error</td>
<td>ANY</td>
</tr>
</tbody>
</table>

Type: Event: This message reports an event, not an error
CHAPTER 78

NSD System Log Messages

This chapter describes messages with the NSD prefix. They are generated by the network security process (nsd), which manages firewall configuration on routers running Junos OS with enhanced services.

NSD_MEMORY_ALLOC_FAILED

System Log Message: Unable to allocate count bytes of memory
Description: The network security process (nsd) could not allocate the indicated number of bytes of memory.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: It is possible that system memory is exhausted.
Action: Increase the amount of RAM in the Routing Engine. For more information, see KB18983.

NSD_RESTART_COMP_CFG_READ_FAILED

System Log Message: Subcomponent could not read configuration database
Description: As the network security process (nsd) restarted, one or more of its subcomponents could not read its configuration information from configuration database. The nsd process restarted anyway, and routing performance was not affected.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

NSD_SEC_NODE_COMP_SYNC_FAILED

System Log Message: One or more subcomponents could not sync their state on backup RE
Description: One or more subcomponents of the network security process (nsd) failed to synchronize their state when the nsd restarted on secondary mode.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB18984.</td>
</tr>
</tbody>
</table>
CHAPTER 79

NSTRACED System Log Messages

This chapter describes messages with the NSTRACED prefix. They are generated by the USP trace process (nstraced).

**NSTRACED_MEMORY_ALLOC_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to allocate <em>count</em> bytes of memory</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The USP trace process (nstraced) could not allocate the indicated number of bytes of memory.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>System memory was exhausted.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Increase the amount of RAM in the Routing Engine. For more information, see <a href="#">KB18985</a>.</td>
</tr>
</tbody>
</table>

**NSTRACED_RESTART_CFG_READ_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Subcomponent could not read configuration database</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>When the USP trace process (nstraced) restarted, it could not read its configuration information from the configuration database.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the NTPDATE prefix. They are generated by the Network Time Protocol process (ntpd) process, which regularly synchronizes system time with internet time servers.

**NTPDATE_TIME_CHANGED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>step time offset new-value sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The ntp service changed the time of day</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>
This chapter describes messages with the **NTPD** prefix. They are generated by the Network Time Protocol process (ntpd) process, which regularly synchronizes system time with internet time servers.

### NTPD_CHANGED_TIME

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>time reset rate s</td>
<td>The ntp service changed the time of day</td>
<td>Error: An error occurred</td>
<td>info</td>
<td>ANY</td>
</tr>
</tbody>
</table>
This chapter describes messages with the PFE prefix. They are generated by the Packet Forwarding Engine controller, which manages packet forwarding functions.

**PFE_ANALYZER_CFG_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Error in Analyzer error-message for index = index error-code = error-code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Error while performing a task. Hence configuration aborted.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**PFE_ANALYZER_SHIM_CFG_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Error in Analyzer error-message for index = index error-code = error-code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Error while programming the chip.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**PFE_ANALYZER_TABLE_WRITE_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>index Could not create analyzer error-message table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Analyzer configuration failed for the ifl index. This could be due to some error condition, as explained in the error strings.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**PFE_ANALYZER_TASK_FAILED**

| System Log Message | Following task failed: error-message                                  |

---

Copyright © 2011, Juniper Networks, Inc.
Description: Error while performing a task. Hence configuration aborted.

Type: Error: An error occurred
Severity: error
Facility: ANY

**PFE_CBF_UNSUPPORTED**

System Log Message: Internet Processor I does not support CoS-based forwarding
Description: The Internet Processor I application-specific integrated circuit (ASIC) does not support class-of-service (CoS)-based forwarding (CBF).

Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY

**PFE_COS_B2_ONE_CLASS**

System Log Message: COSMAN: classifier classifier-id-new for ifl index replaces classifier classifier-id-old still used
Description: Only one classifier can be active on a B2-based FPC at any given time.

Type: Error: An error occurred
Severity: error
Facility: ANY

**PFE_COS_B2_UNSUPPORTED**

System Log Message: COSMAN: B2 FPC cannot support classifier type classifier-type-name
Description: B2-based FPCs can only handle IP precedence classifiers. They do not support any other classifier.

Type: Error: An error occurred
Severity: error
Facility: ANY

**PFE_FW_DELETE_MISMATCH_ERR**

System Log Message: Instance mismatch for type (installed-firewall-name != deleted-firewall-name) ifl logical-interface-index family protocol-family
Description: Before a firewall is deleted, it is sanity checked against what is installed in the forwarding topology. A mismatch was detected between the firewall to be deleted and the forwarding topology, and the delete operation was canceled.

Type: Error: An error occurred
Severity error
Facility LOG_PFE

**PFE_FW_IF_DIALER_ERR**

System Log Message DFW: output type (firewall-name) on ifl logical-interface-index rejected, invalid interface
Description Firewalls that use the ipsec-sa action to forward traffic to an IP Security (IPSec) security association (SA) cannot be configured on the ES PIC that services the SA. That configuration creates traffic loops within the router and was probably unintended. The problematic filter was automatically removed from the indicated interface.

Type Error: An error occurred
Severity error
Facility LOG_PFE

**PFE_FW_IF_INPUT_ERR**

System Log Message DFW: input type (firewall-name) on ifl logical-interface-index rejected, invalid interface
Description Firewalls that use the ipsec-sa action to forward traffic to an IP Security (IPSec) security association (SA) cannot be configured on the ES PIC that services the SA. That configuration creates traffic loops within the router and was probably unintended. The problematic firewall was automatically removed from the indicated interface.

Type Error: An error occurred
Severity error
Facility LOG_PFE

**PFE_FW_IF_OUTPUT_ERR**

System Log Message DFW: output type (firewall-name) on ifl logical-interface-index rejected, invalid interface
Description Firewalls that use the ipsec-sa action to forward traffic to an IP Security (IPSec) security association (SA) cannot be configured on the ES PIC that services the SA. That configuration creates traffic loops within the router and was probably unintended. The problematic firewall was automatically removed from the indicated interface.

Type Error: An error occurred
Severity error
Facility LOG_PFE

**PFE_FW_PSF_DELETE_MISMATCH_ERR**

System Log Message Instance mismatch for type (installed-firewall-name != deleted-firewall-name) hardware label index family protocol-family
Description Before a postservice firewall is deleted, it is sanity checked against what is installed in the forwarding topology. A mismatch was detected between the firewall to be deleted and the forwarding topology, and the delete operation was canceled.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**PFE_FW_SYSLOG_ETH**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>FW: interface-name action destination-address source-address protocol-name (count packets)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An Ethernet frame matched against a stateless firewall filter with the indicated 'syslog' action (A = Accept, D = Discard, R = Reject).</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**PFE_FW_SYSLOG_IP**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>FW: interface-name action protocol-name source-address destination-address source-port-or-type destination-port-or-code (count packets)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An IP packet matched against a stateless firewall filter with the indicated 'syslog' action (A = Accept, D = Discard, R = Reject).</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**PFE_FW_SYSLOG_IP6_GEN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>FW: interface-name action protocol-name source-address destination-address (count packets)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An IP version 6 (IPv6) packet matched against a stateless firewall filter with the indicated 'syslog' action (A = Accept, D = Discard, R = Reject).</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**PFE_FW_SYSLOG_IP6_ICMP**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>FW: interface-name action protocol-name source-address destination-address type type code error-code (count packets)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An IP version 6 (IPv6) Internet Control Message Protocol (ICMP) packet matched against a stateless firewall filter with the indicated 'syslog' action (A = Accept, D = Discard, R = Reject).</td>
</tr>
</tbody>
</table>
**PFE_FW_SYSLOG_IP6_TCP_UDP**

**System Log Message**  
FW: interface-name action protocol-name source-address destination-address  
port:source-port dport:destination-port (count packets)

**Description**  
An IP version 6 (IPv6) Transmission Control Protocol/User Datagram Protocol (TCP/UDP) packet matched against a stateless firewall filter with the indicated 'syslog' action (A = Accept, D = Discard, R = Reject).

**PFE_MGCP_MEM_INIT_FAILED**

**System Log Message**  
Failed to create memory pool for error-message

**Description**  
Failed to initialize the MGCP memory pool.

**PFE_MGCP_REG_HDL_FAIL**

**System Log Message**  
Failed to register object-name handle

**Description**  
Failed to register the handler with the external module.

**PFE_NH_RESOLVE_THROTTLED**

**System Log Message**  
Next-hop resolution requests from interface logical-interface-index throttled

**Description**  
The Packet Forwarding Engine throttled next-hop resolution requests from the indicated interface, because the high number of requests might constitute an attempted denial-of-service (DoS) attack. Examples of events that generate next-hop resolution requests include an attempt to forward a packet without an Address Resolution Protocol (ARP) entry and receiving a multicast data packet with no matching route. Normally, the Packet Forwarding Engine forwards the requests to the Routing Engine.
**Severity** info
**Facility** LOG_PFE

**PFE_SCCP_ADD_PORT_FAIL**

**System Log Message** Failed to add SCCP ALG port to application definition table
**Description** Failed to add the SCCP port to the application definition table.

**Type** Error: An error occurred
**Severity** error
**Facility** LOG_PFE

**PFE_SCCP_DEL_PORT_FAIL**

**System Log Message** Failed to remove SCCP ALG port from application definition table
**Description** Failed to delete the SCCP port from application definition table.

**Type** Error: An error occurred
**Severity** error
**Facility** LOG_PFE

**PFE_SCCP_REG_NAT_VEC_FAIL**

**System Log Message** Failed to add SCCP ALG vector to flow module
**Description** Failed to register the SCCP vector with the flow module.

**Type** Error: An error occurred
**Severity** error
**Facility** LOG_PFE

**PFE_SCCP_REG_RM_FAIL**

**System Log Message** Failed to register SCCP client to Resource Manager
**Description** Failed to register the SCCP Resource Manager client.

**Type** Error: An error occurred
**Severity** error
**Facility** LOG_PFE

**PFE_SCCP_REG_VSIP_FAIL**

**System Log Message** Failed to register SCCP client to VoIP State IP port
**Description** Failed to register the SCCP client to VoIP State IP port.

**Type** Error: An error occurred
<table>
<thead>
<tr>
<th>Severity</th>
<th>error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**PFE_SCCP_RM_CLIENTID_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to get SCCP Resource Manager client identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Failed to get the SCCP Resource Manager client identifier.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**PFE_SCREEN_MT_CFG_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>failed to operation the screen config due to error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>failed to change the configuration of screen module</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**PFE_SCREEN_MT_CFG_EVENT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>[operation]: screen name - context-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>configuration of screen module is changed</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**PFE_SCREEN_MT_ZONE_BINDING_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>screen index1 failed to apply to zone index2 due to reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>failed to bind screen to zone</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**PFE_SIP_MEM_INIT_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to create memory pool for object-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Failed to create a memory pool for SIP.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
Severity error
Facility LOG_PFE

**PFE_SIP_REG_HDL_FAIL**

**System Log Message**  Failed to register *object-name* handle

**Description**  Failed to register the handler with the external module.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_PFE
This chapter describes messages with the **PFED** prefix. They are generated by the Packet Forwarding Engine process, which gathers and reports Packet Forwarding Engine statistics.

### PFED_NOTIFICATION_STATS_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unable to retrieve notification statistics</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>The Packet Forwarding Engine process (pfed) could not retrieve Packet Forwarding Engine notification statistics.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>
This chapter describes messages with the PGCPD prefix. They are generated by the pgcpd process. This process decodes Packet Gateway Control Protocol (PGCP) messages that virtual packet gateways (VPG) receive from the packet gateway controller (PGC) and translates these messages to interprocess communication (IPC) messages.

### PGCPD_SHUTDOWN

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>The pgcpd process shut down</td>
<td>The packet gateway control process (pgcpd) state was shut down.</td>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### PGCPD_STARTUP

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>The pgcpd process just started up</td>
<td>The packet gateway control process (pgcpd) just started up</td>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### PGCPD_SWITCH_OVER

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>switch over</td>
<td>Switch over from active to backup Routing Engine</td>
<td>Event: This message reports an event, not an error</td>
<td>warning</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the `PING` prefix. They are generated by the `ping` command, which tests whether a remote machine is accessible across the network.

### PING_EGRESS_JITTER_THRESH_EXCEED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>pingCtlOwnerIndex = test-owner, pingCtlTestName = test-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The jitter for the egress trip time exceeded the configured threshold during the indicated test conducted by the indicated user.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### PING_EGRESS_STDDEV_THRESH_EXCEED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>pingCtlOwnerIndex = test-owner, pingCtlTestName = test-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The standard deviation of the egress trip time exceeded the configured threshold during the indicated test conducted by the indicated user.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### PING_EGRESS_THRESHOLD_EXCEEDED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>pingCtlOwnerIndex = test-owner, pingCtlTestName = test-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The egress trip time measured for a probe exceeded the configured threshold during the indicated test conducted by the indicated user.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
**PING_INGRESS_JTR_THRESH_EXCEED**

- **System Log Message**: pingCtlOwnerIndex = *test-owner*, pingCtlTestName = *test-name*
- **Description**: The jitter for the ingress trip time exceeded the configured threshold during the indicated test conducted by the indicated user.
- **Type**: Event: This message reports an event, not an error
- **Severity**: info
- **Facility**: LOG_DAEMON

**PING_INGRESS_STDDV_THRESH_EXCEED**

- **System Log Message**: pingCtlOwnerIndex = *test-owner*, pingCtlTestName = *test-name*
- **Description**: The standard deviation of the ingress trip time exceeded the configured threshold during the indicated test conducted by the indicated user.
- **Type**: Event: This message reports an event, not an error
- **Severity**: info
- **Facility**: LOG_DAEMON

**PING_INGRESS_THRESHOLD_EXCEEDED**

- **System Log Message**: pingCtlOwnerIndex = *test-owner*, pingCtlTestName = *test-name*
- **Description**: The ingress trip time measured for a probe exceeded the configured threshold during the indicated test conducted by the indicated user.
- **Type**: Event: This message reports an event, not an error
- **Severity**: info
- **Facility**: LOG_DAEMON

**PING_PROBE_FAILED**

- **System Log Message**: pingCtlOwnerIndex = *test-owner*, pingCtlTestName = *test-name*
- **Description**: The number of successive probe failures exceeded the pingCtlTrapProbeFailureFilter threshold.
- **Type**: Event: This message reports an event, not an error
- **Severity**: info
- **Facility**: LOG_DAEMON

**PING_RTT_JTR_THRESH_EXCEED**

- **System Log Message**: pingCtlOwnerIndex = *test-owner*, pingCtlTestName = *test-name*
- **Description**: The jitter for the round trip time exceeded the configured threshold during the indicated test conducted by the indicated user.
<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### PING_RTT_STDDEV_THRESH_EXCEED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>pingCtlOwnerIndex = test-owner, pingCtlTestName = test-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The standard deviation of the round trip time exceeded the configured threshold during the indicated test conducted by the indicated user.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### PING_RTT_THRESHOLD_EXCEEDED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>pingCtlOwnerIndex = test-owner, pingCtlTestName = test-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The round trip time measured for a probe exceeded the configured threshold during the indicated test conducted by the indicated user.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### PING_TEST_COMPLETED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>pingCtlOwnerIndex = test-owner, pingCtlTestName = test-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>All probes were sent and the number of failed probes was less than the pingCtlTrapTestFailureFilter threshold.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### PING_TEST_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>pingCtlOwnerIndex = test-owner, pingCtlTestName = test-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>All probes were sent but the number of failed probes equaled or exceeded the pingCtlTrapTestFailureFilter threshold.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
PING_UNKNOWN_THRES_TYPE_EXCEED

System Log Message pingCtlOwnerIndex = test-owner, pingCtlTestName = test-name

Description An unknown type of threshold event was reported during the indicated test conducted by the indicated user.

Type Event: This message reports an event, not an error

Severity info

Facility LOG_DAEMON
This chapter describes messages with the PKID prefix. They are generated by the Public Key Infrastructure process (pkid), which supports Public Key Infrastructure by maintaining keypairs, certificates and CRLs. It also provides a mechanism to authenticate and enroll certificates.

**PKID_AFTER_KEY_GEN_SELF_TEST**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Running FIPS self-tests after key generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Running FIPS self-tests for PRNG, HMAC-SHA, RSA, and DSA.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**PKID_CORRUPT_CERT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Certificate subject field does not match length: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The certificate subject name and length are inconsistent.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**PKID_FIPS_KAT_SUCCESS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>FIPS test-name Known Answer Test executed successfully</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The FIPS Known Answer Test completed successfully.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**PKID_PV_ASYM_KEYGEN**

| System Log Message | Asymmetric key-pair (error-message) generation failure |
Description: An asymmetric key has failed to generate.

Type: Event: This message reports an event, not an error

Severity: error

Facility: LOG_DAEMON

PKID_PV_CERT_DEL

System Log Message: Certificate deletion has occurred

Description: A certificate has been deleted.

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_DAEMON

PKID_PV_CERT_LOAD

System Log Message: Certificate has been successfully loaded

Description: A certificate has been loaded.

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_DAEMON

PKID_PV_KEYPAIR_DEL

System Log Message: Key-Pair deletion failed

Description: Key-Pair deletion for a digital signature failed.

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_DAEMON

PKID_PV_KEYPAIR_GEN

System Log Message: Key-Pair has been generated

Description: Key-Pair for a digital signature is generated.

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_DAEMON

PKID_PV_OBJECT_READ

System Log Message: A PKI object was read into memory from source-filename
Description  A PKI object was read from storage.

Type  Event: This message reports an event, not an error

Severity  info

Facility  LOG_DAEMON
CHAPTER 87

PPMD System Log Messages

This chapter describes messages with the PPMD prefix. They are generated by the periodic packet management process (ppmd), which maintains routing protocol adjacencies for the routing protocol process (rpd).

**PPMD_ASSERT_SOFT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Soft assertion failed at line line-number in file <code>source-filename</code> with error &quot;message&quot;, but ppmd with PID pid continued running</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The source code for the periodic package management process (ppmd) includes internal self-consistency checks. As the ppmd process with the indicated process ID (PID) executed the binary compiled from the indicated source file, a check failed at the indicated line number in the file. The ppmd process created a diagnostic core file for analysis by technical support personnel and continued to run.</td>
</tr>
</tbody>
</table>

| Type | Error: An error occurred |
| Severity | error |
| Facility | LOG_NEWS |
| Cause | An internal software failure occurred. |
| Action | Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core file, if requested. For more information, see KB19021. |

**PPMD_OPEN_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: open error on pipe to protocol-name (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The periodic packet management process (ppmd) could not initialize the indicated protocol.</td>
</tr>
</tbody>
</table>

<p>| Type | Error: An error occurred |
| Severity | error |
| Facility | LOG_NEWS |</p>
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_NEWS</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>
CHAPTER 88

PPPD System Log Messages

This chapter describes messages with the PPPD prefix. They are generated by the Point-to-Point Protocol (PPP) process (pppd), which processes packets that use PPP.

**PPPD_AUTH_CREATE_FAILED**

**System Log Message**
Unable to allocate authentication handle: *error-message*

**Description**
The Point-to-Point Protocol process (pppd) could not allocate an authentication object, for the indicated reason.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_AUTH

**PPPD_CHAP_AUTH_IN_PROGRESS**

**System Log Message**
Interface *interface-name* received response 'operation' with CHAP ID *message-id*, but was still authenticating previous response

**Description**
The Point-to-Point Protocol process (pppd) received another Challenge Handshake Authentication Protocol (CHAP) response from a peer while authenticating a previous CHAP response sent by that peer. The peer is resending CHAP responses faster than the pppd process can process them.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_AUTH

**PPPD_CHAP_GET_HOSTNAME_FAILED**

**System Log Message**
*interface-name*: Unable to obtain hostname for outgoing CHAP message: *error-message*

**Description**
The Point-to-Point Protocol process (pppd) could not obtain the hostname needed to fill in the 'Name' field in an outgoing CHAP packet.

**Type**
Error: An error occurred

**Severity**
error
<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_AUTH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PPPD_CHAP_INVALID_IDENTIFIER</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Interface interface-name received 'operation' message with CHAP ID message-id instead of expected ID expected-value</td>
</tr>
<tr>
<td>Description</td>
<td>The Point-to-Point Protocol process (pppd) received a Challenge Handshake Authentication Protocol (CHAP) message from a peer that included the indicated message identifier, which did not match the indicated expected value.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>PPPD_CHAP_INVALID_OPCODE</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>interface-name: received invalid operation code operation (type operation-code, CHAP ID message-id)</td>
</tr>
<tr>
<td>Description</td>
<td>The Point-to-Point Protocol process (pppd) received a Challenge Handshake Authentication Protocol (CHAP) message that included the indicated operation code, which is invalid.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>PPPD_CHAP_LOCAL_NAME_UNAVAILABLE</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>Unable to determine value for 'Name' in outgoing CHAP packet</td>
</tr>
<tr>
<td>Description</td>
<td>The Point-to-Point Protocol process (pppd) could not determine the value needed to fill in the 'Name' field in an outgoing Challenge Handshake Authentication Protocol (CHAP) packet, because either the local name was not specified or pppd could not determine the hostname.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>PPPD_CHAP_OPERATION_UNEXPECTED</strong></td>
<td></td>
</tr>
<tr>
<td>System Log Message</td>
<td>interface-name: unexpected operation type operation (CHAP ID message-id)</td>
</tr>
<tr>
<td>Description</td>
<td>The Challenge Handshake Authentication Protocol (CHAP) message with the indicated identifier had the indicated operation type, which the Point-to-Point Protocol process (pppd) did not expect.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
Severity  info
Facility  LOG_AUTH

PPPD_CHAP_REPLAY_ATTACK_DETECTED

System Log Message  interface-name: received operation with CHAP ID message-id, which is identical to an outstanding challenge. Peer is trying to exhort response value.

Description  During an exchange of authentication messages, a peer responded to a challenge message from the Point-to-Point Protocol process (pppd) by returning the same message. The pppd process did not respond to the peer, because doing so would provide the answer to the original challenge. The peer must provide the answer on its own for authentication to succeed.

Type  Error: An error occurred
Severity  error
Facility  LOG_AUTH

PPPD_EVLIB_CREATE_FAILURE

System Log Message  Unable to create event context: error-message

Description  The Point-to-Point Protocol process (pppd) could not create a context for handling asynchronous events, for the indicated reason.

Type  Error: An error occurred
Severity  error
Facility  LOG_AUTH

PPPD_LOCAL_CREATE_FAILED

System Log Message  Unable to allocate LOCAL module handle: error-message

Description  The Point-to-Point Protocol process (pppd) attempted to allocate a locally configured 'password' authentication module as part of its authentication sequence. The allocation failed.

Type  Error: An error occurred
Severity  error
Facility  LOG_AUTH

PPPD_MEMORY_ALLOCATION_FAILURE

System Log Message  Unable to allocate memory for object object-name: error-message

Description  The Point-to-Point Protocol process (pppd) could not allocate memory from the heap for the indicated object.

Type  Error: An error occurred
### Severity error
### Facility LOG_AUTH
### Action Contact your technical support representative.

#### PPPD_PAP_GETHOSTNAME_FAILED

**System Log Message**  Unable to obtain hostname for PAP message sent from interface *interface-name*: *error-message*

**Description**  The Point-to-Point Protocol process (pppd) could not obtain the hostname it needed to fill in the 'Name' field in an outgoing Password Authentication Protocol (PAP) packet sent from the indicated interface.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_AUTH

#### PPPD_PAP_INVALID_IDENTIFIER

**System Log Message**  Interface *interface-name* received 'operation' message with PAP ID *message-id* instead of expected ID *expected-value*

**Description**  The Point-to-Point Protocol process (pppd) received a Password Authentication Protocol (PAP) message from a peer that included the indicated identifier, which did not match the indicated expected value.

**Type**  Error: An error occurred  
**Severity**  info  
**Facility**  LOG_AUTH

#### PPPD_PAP_INVALID_OPCODE

**System Log Message**  Interface *interface-name* received 'operation' message with PAP ID *message-id* and invalid operation code *operation-code*

**Description**  The Point-to-Point Protocol process (pppd) received a Password Authentication Protocol (PAP) message from a peer that included the indicated operation code, which is invalid.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_AUTH

#### PPPD_PAP_LOCAL_PASSWORD_UNAVAIL

**System Log Message**  Unable to determine value for 'Password' in outgoing PAP packet

**Description**  The Point-to-Point Protocol process (pppd) could not determine the value to write in the 'Password' field in an outgoing Password Authentication Protocol (PAP) packet.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Cause</td>
<td>The local password was not defined for the local hostname.</td>
</tr>
</tbody>
</table>

### PPPD_PAP_OPERATION_UNEXPECTED

**System Log Message**  
interface-name: unexpected operation type operation (PAP ID message-id)

**Description**  
The Point-to-Point Protocol process (pppd) received a Password Authentication Protocol (PAP) message with the indicated identifier and operation type. The operation type was not valid.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

### PPPD_POOL_ADDRESSES_EXHAUSTED

**System Log Message**  
No addresses available in pool "pool-name" to assign to remote peer on interface interface-name

**Description**  
The Point-to-Point Protocol process (pppd) could not assign an address from the indicated address pool to the remote peer on the indicated interface, because there were no more addresses available in the pool.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Action</td>
<td>Increase the number of addresses in the address pool.</td>
</tr>
</tbody>
</table>

### PPPD_RADIUS_ADD_SERVER_FAILED

**System Log Message**  
Unable to add RADIUS server radius-server for profile access-profile: error-message

**Description**  
The Point-to-Point Protocol process (pppd) could not add the indicated RADIUS server for the indicated access profile.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

### PPPD_RADIUS_ALLOC_PASSWD_FAILED

**System Log Message**  
Unable to allocate RADIUS password of size size: error-message
<table>
<thead>
<tr>
<th>Description</th>
<th>The Point-to-Point Protocol process (pppd) could not allocate space for a temporary Challenge Handshake Authentication Protocol (CHAP) RADIUS password of the indicated size.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**PPPD_RADIUS_CREATE_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to allocate RADIUS module handle: <em>error-message</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Point-to-Point Protocol process (pppd) attempted to allocate a RADIUS authentication module as part of its authentication sequence. The allocation failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**PPPD_RADIUS_CREATE_REQ_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to create RADIUS access request message: <em>error-message</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Point-to-Point Protocol process (pppd) could not create an access request message to send to the RADIUS server.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**PPPD_RADIUS_GETHOSTNAME_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to obtain hostname for outgoing RADIUS message: <em>error-message</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Point-to-Point Protocol process (pppd) could not obtain the hostname it needed to fill in the PPP_IDENTIFIER field in an outgoing RADIUS message.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**PPPD_RADIUS_MESSAGE_UNEXPECTED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unknown response from RADIUS server: <em>return-value</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The RADIUS authentication module for the Point-to-Point Protocol process (pppd) received a message from the RADIUS server that it could not process.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>----------</td>
<td>-------</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**PPPD_RADIUS_NO_VALID_SERVERS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to find valid RADIUS server for profile access-profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Point-to-Point Protocol process (pppd) could not access a valid RADIUS server to use for the indicated access profile.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**PPPD_RADIUS_OPEN_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>rad_auth_open failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Point-to-Point Protocol process (pppd) could not create a RADIUS object handle, which it uses to communicate with the RADIUS server.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**PPPD_RADIUS_ROUTE_INST_ENOENT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Ignored RADIUS server radius-server for profile access-profile because routing instance routing-instance did not exist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated routing instance, which the Point-to-Point Protocol process (pppd) uses for routing of RADIUS packets, was not defined.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Cause</td>
<td>The process of adding the required routing instance was still in progress when the message was logged.</td>
</tr>
<tr>
<td>Action</td>
<td>None required. Authentication with the indicated RADIUS server is automatically reattempted, and can succeed when the interface exists.</td>
</tr>
</tbody>
</table>
This chapter describes messages with the PROFILER prefix. They are generated by the profiler service process (profilerd) which captures accurate and granular detail of the traffic pattern over a specific time period. The profiler process provides details on the threats are encountered by the network as well as details about the mix of application traffic.

PROFILER_RECONFIGURE_SIGHUP

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGHUP - re-reading configuration</td>
<td>In response to a SIGHUP signal, the profiler service process (profilerd) read its configuration from the configuration database</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
CHAPTER 90

RDD System Log Messages

This chapter describes messages with the RDD prefix. They are generated by the redundant interfaces process (rdd), which manages redundant interfaces when they are configured on Adaptive Services PICs.

### RDD_EVLIB_CREATE_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>evCreate failed (&lt;error-message&gt;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The redundant interfaces process (rdd) could not create a context used for handling all asynchronous events (such as timers and message availability).</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>emergency</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB19023.</td>
</tr>
</tbody>
</table>

### RDD_IFDEV_ADD_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: unable to add interface device interface-name (&lt;error-message&gt;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The redundant interfaces process (rdd) could not create an interface device because an error occurred during the indicated call to the routing socket library.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### RDD_IFDEV_DELETE_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: rtslib delete operation failed for interface device interface-name (&lt;error-message&gt;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The redundant interfaces process (rdd) could not delete an interface device because an error occurred during the indicated call to the routing socket library.</td>
</tr>
</tbody>
</table>
RDD_IFDEV_GET_FAILURE

System Log Message
function-name: rtslib get operation failed for interface device interface-name (error-message)

Description
The redundant interfaces process (rdd) could not get an interface device because an error occurred during the indicated call to the routing socket library.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action Contact your technical support representative.

RDD_IFDEV_INCOMPATIBLE_REVERT

System Log Message
function-name: did not revert rsp-interface-name back to primary interface primary-interface-name; PIC is incompatible with secondary

Description
The redundant interfaces process (rdd) tried to migrate service processing for the indicated redundant interface from the secondary interface back to the indicated primary interface. The attempt failed because the Adaptive Services (AS) Physical Interface Cards (PICs) that house the primary and secondary interfaces are not compatible.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RDD_IFDEV_INCOMPATIBLE_SWITCH

System Log Message
Unable to switch rsp-interface-name to secondary interface secondary-interface-name; PIC is incompatible with primary

Description
The redundant interfaces process (rdd) tried to migrate service processing for the indicated redundant interface from the primary interface to the indicated secondary interface. The attempt failed because the Adaptive Services (AS) Physical Interface Cards (PICs) that house the primary and secondary interfaces are not compatible.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON
RDD_IFDEV_RETRY_NOTICE

System Log Message

\textit{function-name}: repeated attempt to add interface \textit{interface-name} failed
\textit{(error-message)}

Description
The redundant interfaces process (rdd) tried repeatedly to create the indicated interface device, but the attempts failed. After generating this message, rdd waited a while for resources to free up and tried again.

Type Event: This message reports an event, not an error
Severity warning
Facility LOG_DAEMON
Cause Necessary resources might have been unavailable. They should become available soon.

RDD_NEW_INTERFACE_STATE

System Log Message

Event \textit{event-name} changed state of interface \textit{interface-name} from \textit{'old-state'} to \textit{'new-state'}

Description The indicated event on the indicated redundant interface changed the interface state as indicated.

Type Event: This message reports an event, not an error
Severity info
Facility LOG_DAEMON
CHAPTER 91

RMOPD System Log Messages

This chapter describes messages with the RMOPD prefix. They are generated by the Simple Network Management Protocol (SNMP) remote operations process (rmopd), which services SNMP requests for execution of ping and traceroute operations.

RMOPD_ADDRESS_MULTICAST_INVALID

System Log Message  Multicast address is not allowed
Description  When a Simple Network Management Protocol (SNMP) client requests a remote operation, it can specify the addresses of the source and target hosts for the operation. A request failed because the client specified a multicast address for either or both the source and target hosts.

Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON

RMOPD_ADDRESS_SOURCE_INVALID

System Log Message  Source address invalid: error-message
Description  When a Simple Network Management Protocol (SNMP) client requests a remote operation, it can specify the address to use as the source host for the operation, along with the corresponding address type (such as IP version 4 [IPv4]). Either the specified address was invalid because it did not match the specified address type, or the address could not be resolved.

Type  Error: An error occurred
Severity  notice
Facility  LOG_DAEMON

RMOPD_ADDRESS_STRING_FAILURE

System Log Message  Unable to convert numeric address to string: error-message
Description  The remote Simple Network Management Protocol (SNMP) operations process (rmopd) could not convert a numeric host address to the corresponding hostname text string.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RMOPD_ADDRESS_TARGET_INVALID**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>rmop_util_set_address status message: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>When a Simple Network Management Protocol (SNMP) client requests a remote operation, it must specify the address of the target host along with the corresponding address type (such as IP version 4 [IPv4]). Either the specified address was invalid because it did not match the specified address type, or the address could not be resolved.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RMOPD_ICMP_ADDR_TYPE_UNSUPPORTED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Only IPv4 source address is supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>When a Simple Network Management Protocol (SNMP) client requests a remote operation, it can specify the address type (such as IP version 4 [IPv4]) of the source and target hosts for the operation. The client specified an unsupported address type.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RMOPD_IFINDEX_NOT_ACTIVE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>ifindex: snmp-interface-index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>When a Simple Network Management Protocol (SNMP) client requests a remote operation, it can specify which interface to use as the source host address, identifying it by either its numerical index or its name. The indicated index was invalid because it represents an inactive interface.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RMOPD_IFINDEX_NO_INFO**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>No information for snmp-interface-index, message: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>When a Simple Network Management Protocol (SNMP) client requests a remote operation, it can specify which interface to use as the source host address, identifying it</td>
</tr>
</tbody>
</table>
by either its numerical index or its name. The SNMP remote operations process (rmopd) could not find any information about the interface with the indicated index.

**RMOPD_IFNAME_NOT_ACTIVE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>ifname: interface-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>When a Simple Network Management Protocol (SNMP) client requests a remote operation, it can specify which interface to use as the source host address, identifying it by either its numerical index or its name. The indicated name was invalid because it represents an inactive interface.</td>
</tr>
</tbody>
</table>

**RMOPD_IFNAME_NO_INFO**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>No information for interface-name, message: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>When a Simple Network Management Protocol (SNMP) client requests a remote operation, it can specify which interface to use as the source host address, identifying it by either its numerical index or its name. The SNMP remote operations process (rmopd) could not find any information about the interface with the indicated name.</td>
</tr>
</tbody>
</table>

**RMOPD_ROUTING_INSTANCE_NO_INFO**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>No information for routing instance routing-instance: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated routing instance does not exist, so the Simple Network Management Protocol (SNMP) remote operations process (rmopd) could not retrieve information about it.</td>
</tr>
</tbody>
</table>

**RMOPD_TRACEROUTE_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Message: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td></td>
</tr>
</tbody>
</table>
Description: The traceroute application reported the indicated error message to the Simple Network Management Protocol (SNMP) remote operations process (rmopd).

- **Type**: Error: An error occurred
- **Severity**: notice
- **Facility**: LOG_DAEMON
This chapter describes messages with the RPD prefix. They are generated by the routing protocol process (rpd) which controls the routing protocols that run on the router. This process starts all the configured routing protocols and handles all the routing messages. It maintains one or more routing tables, which consolidate the routing information learned from all routing protocols. From this routing information, the routing protocol process determines the active routes to network destinations and installs these routes into the Routing Engine's forwarding table. Finally, it implements routing policy, which allows you to control the routing information that is transferred between the routing protocols and the routing table.

NOTE: When an interface goes down, individual RPD_IGMP_LEAVE and RPD_MLD_LEAVE messages are no longer generated per group or per host. Instead, a single message (such as RPD_IGMP_ALL_SUBSCRIBERS_DELETED) is generated for the interface.

**RPD_ABORT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>abort executable-name[pid] version version built by builder on date: error-message</strong></td>
<td>The routing protocol process (rpd) terminated because of an internal error.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Examine the messages that immediately follow this message in the system log for information about possible causes. For more information, see KB19047.</td>
</tr>
</tbody>
</table>

| Cause | An internal software failure occurred. |

**RPD_ACTIVE_TERMINATE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exiting with active tasks: task-name</td>
<td>After receiving multiple termination requests, the routing protocol process (rpd) exited without performing the indicated cleanup tasks.</td>
</tr>
</tbody>
</table>
Type Event: This message reports an event, not an error
Severity notice
Facility LOG_DAEMON
Action For more information, see KB19048.

RPD_AMT_CFG_ADDR_FMLY_INVALID
System Log Message Valid address family information is required
Description An invalid address family value was encountered while parsing AMT configuration.

Type Event: This message reports an event, not an error
Severity warning
Facility ANY
Action Modify the configuration statement to use a valid value.

RPD_AMT_CFG_ANYCAST_INVALID
System Log Message An invalid anycast-prefix is configured
Description An invalid anycast prefix was encountered while parsing AMT configuration.

Type Event: This message reports an event, not an error
Severity warning
Facility ANY
Action Modify the configuration statement to use a valid value.

RPD_AMT_CFG_ANYCAST_MCAST
System Log Message Anycast-prefix route-prefix cannot be a multicast address
Description A multicast address cannot be configured as the anycast-prefix

Type Event: This message reports an event, not an error
Severity warning
Facility ANY
Action Modify the configuration statement to use a valid value.

RPD_AMT_CFG_LOC_ADDR_INVALID
System Log Message An invalid local-address is configured
Description An invalid local address was encountered while parsing AMT configuration.
Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY
Action: Modify the configuration statement to use a valid value.

**RPD_AMT_CFG_LOC_ADDR_MCAST**

**System Log Message**: Local-address `route-prefix` cannot be a multicast address
**Description**: A multicast address cannot be configured as the local-address.

Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY
Action: Modify the configuration statement to use a valid value.

**RPD_AMT_CFG_PREFIX_LEN_SHORT**

**System Log Message**: Prefix length `prefix-length` is too short for prefix `route-prefix`
**Description**: The prefix length for the indicated prefix is too short and it has a non-zero host portion. Excess host bits will be ignored.

Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY

**RPD_AMT_CFG_RELAY_INVALID**

**System Log Message**: Invalid relay information is configured
**Description**: Invalid relay configuration was encountered while parsing AMT configuration.

Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY
Action: Modify the configuration statement to use a valid value.

**RPD_AMT_RELAY_DISCOVERY**

**System Log Message**: AMT relay discovery message from gateway `destination-address` port `destination-port` at `time`
**Description**: AMT relay discovery event.

Type: Event: This message reports an event, not an error
Severity        info
Facility        ANY

RPD_AMT_TUNNEL_CREATE
System Log Message  Tunnel created between gateway destination-address port destination-port relay source-address port source-port on interface interface-name at time
Description      AMT tunnel create event.
Type             Event: This message reports an event, not an error
Severity         info
Facility         ANY

RPD_AMT_TUNNEL_DELETE
System Log Message  Tunnel deleted between gateway destination-address port destination-port relay source-address port source-port on interface interface-name at time
Description      AMT tunnel delete event.
Type             Event: This message reports an event, not an error
Severity         info
Facility         ANY

RPD_ASSERT
System Log Message  Assertion failed executable-name[pid]: file "source-filename", line line-number: "message"
Description      The source code for the routing protocol process (rpd) includes internal self-consistency checks. A check failed at the indicated line number in the indicated source file, causing the instance of rpd that was using the indicated binary and had the indicated process ID (PID) to terminate. The process created a diagnostic core dump for analysis by technical support personnel.
Type             Error: An error occurred
Severity         error
Facility         LOG_DAEMON
Cause             An internal software failure occurred.
Action           Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core dump, if requested. For more information, see KB19049.
**RPD_ASSERT_SOFT**

**System Log Message**
Soft assertion failed `executable-name[pid]`: file "`source-filename`", line `line-number`: "`message`", daemon continued running

**Description**
The source code for the routing protocol process (rpd) includes internal self-consistency checks. A check failed at the indicated line number in the indicated source file, but the instance of rpd that was using the indicated binary and had the indicated process ID (PID) continued running. The process created a diagnostic core dump for analysis by technical support personnel.

- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON
- **Cause**: An internal software failure occurred.
- **Action**: Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core dump, if requested. For more information, see KB19050.

**RPD_BFD_READ_ERROR**

**System Log Message**
Read error on pipe from bfdd: `reason (error-message)`

**Description**
The routing protocol process (rpd) could not read a message available on the read pipe from the Bidirectional Forwarding Detection process (bfdd).

- **Type**: Error: An error occurred
- **Severity**: info
- **Facility**: LOG_DAEMON
- **Action**: Contact your technical support representative.

**RPD_BFD_WRITE_ERROR**

**System Log Message**
`function-name`: write error on pipe to bfdd (error-message)

**Description**
The routing protocol process (rpd) could not write a message on the pipe to the Bidirectional Forwarding Detection process (bfdd).

- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON
- **Action**: Contact your technical support representative.
RPD_BGP_CFG_ADDR_INVALID

System Log Message  Invalid argument address ip-address
Description  An invalid local or neighbor address was encountered while parsing BGP configuration.
Type  Event: This message reports an event, not an error
Severity  warning
Facility  ANY
Action  Modify the configuration statement to use a valid value.

RPD_BGP_CFG_LOCAL_ASNUM_WARN

System Log Message  local as-number cannot be set to confederation as-number data-id, statement ignored
Description  Local autonomous-system number cannot be set to the confederation autonomous-system number. Statement will be ignored.
Type  Event: This message reports an event, not an error
Severity  warning
Facility  ANY

RPD_BGP_NEIGHBOR_STATE_CHANGED

System Log Message  BGP peer peer-name changed state from old-state to new-state (event event-type)
Description  During BGP negotiation with the local router, the state of the indicated BGP neighbor (peer) changed as indicated. The ESTABLISHED state is the final state in the neighbor negotiation.
Type  Event: This message reports an event, not an error
Severity  warning
Facility  LOG_DAEMON
Action  For more information, see KB19051.

RPD_CFG_TRACE_FILE_MISSING

System Log Message  No file specified under traceoptions hierarchy
Description  The routing protocol process (rpd) could not find the 'file' statement under a traceoptions hierarchy. This prevents it from performing tracing.
Type  Event: This message reports an event, not an error
Severity  warning
Facility  ANY
**RPD_DYN_CFG_BUSY_SIGNAL_FAILED**

**System Log Message**  Dynamic config action busy signal failed: error-message

**Description**  The routing protocol process (rpd) failed to notify the dynamic configuration clients about its availability to process the dynamic configuration requests.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Action**  Contact your technical support representative. For more information, see KB19053.

**RPD_DYN_CFG_GET_PROFILE_FAILED**

**System Log Message**  Get dynamic profiles failed: error-code

**Description**  The routing protocol process (rpd) tried to load a profile from the database and failed.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON

**RPD_DYN_CFG_GET_PROF_NAME_FAILED**

**System Log Message**  Get profile name for session client-session-id failed: error-code

**Description**  The routing protocol process (rpd) tried to get the profile name from the session snapshot and failed.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Action**  Contact your technical support representative. For more information, see KB19054.

**RPD_DYN_CFG_GET_SES_STATE_FAILED**

**System Log Message**  Get session state for session client-session-id failed: error-code

**Description**  The routing protocol process (rpd) failed to get the session state from the session snapshot.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Action**  Contact your technical support representative. For more information, see KB19056.
### RPD_DYN_CFG_GET_SES_TYPE_FAILED

**System Log Message**  
Get session type for session `client-session-id` failed: `error-code`

**Description**  
The routing protocol process (rpd) tried to get the session type from the session snapshot and failed.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### RPD_DYN_CFG_GET_SNAPSHOT_FAILED

**System Log Message**  
Get session id `client-session-id` snapshot failed: `error-code`

**Description**  
The routing protocol process (rpd) tried to load client session data from the database and failed.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB19057.</td>
</tr>
</tbody>
</table>

### RPD_DYN_CFG_PDB_CLOSE_FAILED

**System Log Message**  
Failed to close profile database: `error-code`

**Description**  
The routing protocol process (rpd) tried to close the profile database and failed.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB19058.</td>
</tr>
</tbody>
</table>

### RPD_DYN_CFG_PDB_OPEN_FAILED

**System Log Message**  
Failed to open profile database: `error-code`

**Description**  
The routing protocol process (rpd) tried to open the profile database and failed.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
### RPD_DYN_CFG_PROCESSING_FAILED

**System Log Message**  
Module *module* failed to process dynamic configuration

**Description**  
The routing protocol process (rpd) tried to process dynamic configuration and failed.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
For more information, see KB19060.

### RPD_DYN_CFG_REGISTER_FAILED

**System Log Message**  
Dynamic config registration failed: *error-message*

**Description**  
The routing protocol process (rpd) tried to register with the dynamic configuration subsystem and failed.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
For more information, see KB19061.

### RPD_DYN_CFG_REQUEST_ACK_FAILED

**System Log Message**  
Failed to ack request *data-id*: *error-code*

**Description**  
The routing protocol process (rpd) tried to acknowledge a dynamic configuration request and failed.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
For more information, see KB19062.

### RPD_DYN_CFG_RESPONSE_SLOW

**System Log Message**  
Dynamic config response for session id *client-session-id* took *system-seconds* seconds

**Description**  
The routing protocol process (rpd) is responding slowly to dynamic config requests.

**Type**  
Error: An error occurred

**Severity**  
error
System Log Message
Could not open configuration schema: error-message
Description
The routing protocol process (rpd) tried to open the configuration schema and failed.
Type
Error: An error occurred
Severity
error
Facility
LOG_DAEMON
Action
Contact your technical support representative. For more information, see KB19063.

System Log Message
Recovery of session client-session-id failed
Description
The routing protocol process (rpd) tried to recover a session and failed.
Type
Error: An error occurred
Severity
error
Facility
LOG_DAEMON
Action
Contact your technical support representative. For more information, see KB19066.

System Log Message
Set dynamic config context for profile profile-name session client-session-id failed
Description
The routing protocol process (rpd) tried to set up the dynamic configuration context and failed.
Type
Error: An error occurred
Severity
error
Facility
LOG_DAEMON

System Log Message
Dynamic config send recovery complete failed: error-code
Description
The routing protocol process (rpd) tried to send recovery complete to SMID and failed.
Type
Error: An error occurred
Severity
error
Facility
LOG_DAEMON
RPD_DYN_CFG_SMID_REG_FAILED
System Log Message: Failed to open session database: error-code
Description: The routing protocol process (rpd) tried to register with SMID and failed.
Type: Error: An error occurred
Severity: info
Facility: LOG_DAEMON

RPD_DYN_CFG_SMID_UNREG_FAILED
System Log Message: Failed to unregister with SMID: error-code
Description: The routing protocol process (rpd) tried to unregister with SMID and failed.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

RPD_EISIS_ADJDOWN
System Log Message: ES-IS lost adjacency-type adjacency to neighbor-nsap-netn on interface-name, reason: reason
Description: An ES-IS adjacency with the indicated neighboring router was terminated. The local router no longer exchanges routing information with, or directs traffic to, the neighboring router.
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON
Cause: The communication path to the neighboring router was disrupted, a protocol error occurred, or the neighboring router was powered down.

RPD_EISIS_ADJUP
System Log Message: ES-IS new adjacency-type adjacency to neighbor-nsap-netn on interface-name
Description: An ES-IS adjacency was established with the indicated neighboring router. The local router can now exchange information with it.
Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_DAEMON
### RPD_EXIT

**System Log Message**
Exit `executable-name[pid]` version `version` built by `builder` on `date`, caller `address`.

**Description**
The routing protocol process (rpd) exited, either in response to a user request or because of a system error.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_DAEMON

**Cause**
A system resource was unavailable, rpd did not understand an error, or a user terminated the process.

**Action**
Examine the messages that immediately follow this message in the system log for information about possible causes.

### RPD_IFD_INDEXCOLLISION

**System Log Message**
Physical interface collision -- same name, different index (new `new-interface-name new-index` old `old-interface-name old-value`)

**Description**
The routing protocol process (rpd) received a message from the kernel in which the numerical index associated with the indicated interface name differed from the index-to-name mapping maintained by rpd.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Cause**
It is possible that rpd discarded some interface messages from the kernel without processing them because it received more messages than it could handle. It will recover.

### RPD_IFD_NAMECOLLISION

**System Log Message**
Physical interface collision -- different name, same index (new `new-interface-name new-index`, old `old-interface-name old-value`)

**Description**
The routing protocol process (rpd) received a message from the kernel in which the name associated with the indicated numerical interface index differed from the name-to-index mapping maintained by rpd.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Cause**
It is possible that rpd discarded some interface messages from the kernel without processing them because it received more messages than it could handle. It will recover.
### RPD_IFL_INDEXCOLLISION

**System Log Message**  Logical interface collision -- same name, different index (new `new-interface-name new-index` old `old-interface-name old-value`)

**Description**  The routing protocol process (rpd) received a message from the kernel in which the numerical index associated with the indicated interface name differed from the index-to-name mapping maintained by rpd.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**Cause**  It is possible that rpd discarded some interface messages from the kernel without processing them because it received more messages than it could handle. It will recover.

### RPD_IFL_NAMECOLLISION

**System Log Message**  Logical interface collision -- different name, same index (new `new-interface-name new-index`, old `old-interface-name old-value`)

**Description**  The routing protocol process (rpd) received a message from the kernel in which the name associated with the indicated numerical interface index differed from the name-to-index mapping maintained by rpd.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**Cause**  It is possible that rpd discarded some interface messages from the kernel without processing them because it received more messages than it could handle. It will recover.

### RPD_IGMP_ACCOUNTING_OFF

**System Log Message**  `interface-name time`

**Description**  Internet Group Management Protocol (IGMP) accounting for the indicated interface was disabled at the indicated time.

**Type**  Event: This message reports an event, not an error

**Severity**  info

**Facility**  LOG_DAEMON

### RPD_IGMP_ACCOUNTING_ON

**System Log Message**  `interface-name time`

**Description**  Internet Group Management Protocol (IGMP) accounting for the indicated interface was enabled at the indicated time.
Type  Event: This message reports an event, not an error
Severity  info
Facility  LOG_DAEMON

RPD_IGMP_ALL_SUBSCRIBERS_DELETED

System Log Message  All IGMP subscribers on interface interface-name deleted at time because the interface is down

Description  All IGMP subscribers have been deleted because the interface is down.

Type  Event: This message reports an event, not an error
Severity  info
Facility  LOG_DAEMON

RPD_IGMP_CFG_CREATE_ENTRY_FAILED

System Log Message  Could not create entry for entry.

Description  Internet Group Management Protocol (IGMP) failed to create the indicated configuration entry. The configuration request failed.

Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative.

RPD_IGMP_CFG_GROUP_OUT_OF_RANGE

System Log Message  The combination of group-count count and group-increment ip-address causes some of the groups out of range.

Description  The configuration request failed because the indicated configuration object contained a group that is out of range.

Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Modify configuration statement to use a valid value.

RPD_IGMP_CFG_INVALID_VALUE

System Log Message  The object-name configuration object identifier field has an invalid value of value

Description  The configuration request failed because the indicated configuration object contained the indicated invalid value.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Modify configuration statement to use a valid value.</td>
</tr>
</tbody>
</table>

**RPD_IGMP_CFG_SOURCE_OUT_OF_RANGE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>The combination of source-count count and source-increment ip-address causes some of the sources out of range.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The configuration request failed because the indicated configuration object contained a source that is out of range.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Modify configuration statement to use a valid value.</td>
</tr>
</tbody>
</table>

**RPD_IGMP_DYN_CFG_ALREADY_BOUND**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Dynamic configuration session id client-session-id for interface interface-name is already bound to interface old-interface-name.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated dynamic configuration session id is already bound to another interface. The dynamic configuration instantiation request was rejected.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Unbind session id from existing interface.</td>
</tr>
</tbody>
</table>

**RPD_IGMP_DYN_CFG_INVALID_STMT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Invalid dynamic configuration statement: configuration-statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated dynamic configuration statement was invalid. The dynamic configuration instantiation request was rejected.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Remove the unsupported configuration statement.</td>
</tr>
</tbody>
</table>
**RPD_IGMP_DYN_CFG_SES_ID_ADD_FAIL**

**System Log Message** Failed to add dynamic configuration session id `client-session-id` to interface `interface-name`.

**Description** Failed to associate the indicated dynamic configuration session id to specified interface. The dynamic configuration instantiation request was rejected.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_DAEMON

**Action** Contact your technical support representative.

**RPD_IGMP_DYN_CFG_SES_ID_MISMATCH**

**System Log Message** Dynamic configuration entry for interface `interface-name` with session id `client-session-id` found an existing entry with a different session id of `client-session-id-1`.

**Description** The dynamic configuration instantiation request matched an existing dynamic configuration block that had a different session id. The dynamic configuration instantiation request was rejected.

**Type** Error: An error occurred

**Severity** error

**Facility** LOG_DAEMON

**Action** Contact your technical support representative.

**RPD_IGMP_JOIN**

**System Log Message** Listener `source-address` sent a join to `destination-address` for group `group-address` source `sender-address` on interface `interface-name` at time

**Description** IGMP join event.

**Type** Event: This message reports an event, not an error

**Severity** info

**Facility** LOG_DAEMON

**RPD_IGMP_LEAVE**

**System Log Message** Listener `source-address` sent a leave to `destination-address` for group `group-address` source `sender-address` on interface `interface-name` at time

**Description** IGMP leave event.

**Type** Event: This message reports an event, not an error
### RPD IGMP Membership Timeout

<table>
<thead>
<tr>
<th>Severity</th>
<th>info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
Membership timeout for listener *source-address* for group *group-address* source *sender-address* on interface *interface-name* at *time*

**Description**
IGMP group membership timeout.

**Type**
Event: This message reports an event, not an error

<table>
<thead>
<tr>
<th>Severity</th>
<th>info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### RPD IGMP Router Version Mismatch

<table>
<thead>
<tr>
<th>Severity</th>
<th>warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
IGMP version mismatch on *interface-name*. Local version: *local-version* Remote version: *remote-version*

**Description**
The IGMP version running on the local router does not match the one received in the query.

**Type**
Event: This message reports an event, not an error

<table>
<thead>
<tr>
<th>Severity</th>
<th>info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### RPD ISIS AdjDown

<table>
<thead>
<tr>
<th>Severity</th>
<th>notice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
IS-IS lost Lisis-level adjacency to *neighbor-system-ids* on *interface-name*, reason: *reason*

**Description**
An IS-IS adjacency with the indicated neighboring router was terminated. The local router no longer exchanges routing information with, or directs traffic to, the neighboring router.

**Type**
Event: This message reports an event, not an error

**Cause**
The communication path to the neighboring router was disrupted, a protocol error occurred, or the neighboring router was powered down.

**Action**
For more information, see KB19067.

### RPD ISIS AdjUp

**System Log Message**
IS-IS new Lisis-level adjacency to *neighbor-system-ids* on *interface-name*

**Description**
An IS-IS adjacency was established with the indicated neighboring router. The local router can now exchange information with it.
**Type** Event: This message reports an event, not an error

**Severity** info

**Facility** LOG_DAEMON

**RPD_ISIS_ADJUPNOIP**

**System Log Message** IS-IS new Lisis-level adjacency to neighbor-system-ids on interface-name without an address

**Description** An IS-IS adjacency was established with the indicated neighboring router, which is not configured for IS-IS for IP.

**Type** Event: This message reports an event, not an error

**Severity** notice

**Facility** LOG_DAEMON

**Cause** The neighboring router is misconfigured: it is enabled for IS-IS but not for exchange of IP route information.

**Action** Configure the neighboring router for IS-IS with IP, or remove it from the IS-IS mesh.

**RPD_ISIS_LDP_SYNC**

**System Log Message** IS-IS interface interface-name advertised with infinite metric for duration seconds already due to loss of synchronization with LDP

**Description** The IS-IS protocol lost synchronization with the Label Distribution Protocol (LDP) on the indicated interface. As a consequence, it began advertising an infinite metric for the interface and has been doing so for the indicated number of seconds.

**Type** Error: An error occurred

**Severity** warning

**Facility** LOG_DAEMON

**Action** Determine why LDP lost synchronization with IS-IS.

**RPD_ISIS_LSPCKSUM**

**System Log Message** IS-IS Lisis-level LSP checksum error, interface interface-name, LSP id lspl, sequence sequence-number, checksum checksum, lifetime duration

**Description** The indicated IS-IS informational link-state PDU (LSP) failed an internal checksum validity test, implying that it was corrupted.

**Type** Error: An error occurred

**Severity** warning

**Facility** LOG_DAEMON
Cause: The packet was corrupted in transit between the neighboring IS-IS router and this router, or memory on one of the routers was corrupted.

Action: None, unless a large number of these messages appear in the system log file. The corrupted LSP is silently discarded. For more information, see KB19068.

**RPD_ISIS_NO_ROUTERID**

- **System Log Message**: IS-IS instance does not have a valid router ID
- **Description**: The IS-IS instance did not have a valid router ID.
- **Type**: Error: An error occurred
- **Severity**: alert
- **Facility**: LOG_DAEMON
- **Cause**: When a router ID is not explicitly configured for an instance, IPv4 addresses configured under the instance are considered in the selection of the router ID. In this case, the instance did not have a router ID configured and no IPv4 addresses were configured.
- **Action**: Either configure a router ID by including the 'routing-instance' statement under the instance, or configure an IPv4 address by including the 'family inet' statement under one of the interfaces of the instance. You can also configure both.

**RPD_ISIS_OVERLOAD**

- **System Log Message**: IS-IS database overload
- **Description**: The IS-IS link-state database is full and no additional memory can be allocated for it.
- **Type**: Error: An error occurred
- **Severity**: alert
- **Facility**: LOG_DAEMON
- **Cause**: No additional memory is available for storing IS-IS link-state information. Either system resources are exhausted or a software error occurred (such as a memory leak in the routing protocol process [rpd]). In the former case, IS-IS might be carrying too much information, or the router configuration includes too many features that use large amounts of system memory.
- **Action**: Perform one or more of the following actions: (1) Check for unusually high memory usage by the IS-IS task or rpdl, (2) Unconfigure features that use large amounts of memory, (3) Add more memory to the Routing Engine, (4) Carry fewer IS-IS routes. For more information, see KB19069.

**RPD_KRT_CCC_IFL_MODIFY**

- **System Log Message**: error-code, error-message
<table>
<thead>
<tr>
<th>Description</th>
<th>The routing protocol process (rpd) attempted to modify the state for a logical interface that is related to circuit cross-connect (CCC), but the request failed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>It is possible that the kernel lacked the resources to fulfill the request. The rpd process will recover.</td>
</tr>
</tbody>
</table>

### RPD_KRT_DELETED_RTT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>task-name: received deleted routing table from the kernel for family address-family-type table ID table-id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) received a message from the kernel that referred to a routing table that no longer exists.</td>
</tr>
</tbody>
</table>

| Type        | Error: An error occurred                                                                                                                                                                      |
| Severity    | error                                                                                                                                                                                         |
| Facility    | LOG_DAEMON                                                                                                                                                                                      |

### RPD_KRT_IFAGENERATION

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>ifa generation mismatch -- rpd rpd-generation kernel kernel-generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) received a message from the kernel in which the interface address associated with the indicated numerical index differed from the address-to-index mapping maintained by rpd.</td>
</tr>
</tbody>
</table>

| Type        | Event: This message reports an event, not an error                                                                                                                                           |
| Severity    | notice                                                                                                                                                                                          |
| Facility    | LOG_DAEMON                                                                                                                                                                                        |
| Cause       | It is possible that rpd discarded some interface messages from the kernel without processing them because it received more messages than it could handle. It will recover. |

### RPD_KRT_IFDCHANGE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>task-name CHANGE for ifd interface-device-index address/prefix-length failed, error &quot;error-message&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) sent a request to the kernel to change the state of the indicated interface. The request failed.</td>
</tr>
</tbody>
</table>

| Type        | Error: An error occurred                                                                                                                                                                      |
| Severity    | error                                                                                                                                                                                          |
| Facility    | LOG_DAEMON                                                                                                                                                                                        |
Cause It is possible that the kernel lacked the resources to fulfill the request. The rpd process will recover.

RPD_KRT_IFDEST_GET

System Log Message task-name IFDEST GET for ifd rpd-interface-name failed, error "error-message"
Description The routing protocol process (rpd) requested state information about the indicated interface from the kernel. The request failed.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause It is possible that the kernel lacked the resources to fulfill the request. The rpd process will recover.

RPD_KRT_IFDGET

System Log Message task-name GET index for ifd interface-name failed, error "error-message"
Description The routing protocol process (rpd) requested state information about the indicated interface from the kernel. The request failed.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause It is possible that the kernel lacked the resources to fulfill the request. The rpd process will recover.

RPD_KRT_IFD_CELL_RELAY_INV_MODE

System Log Message Invalid mode (mode) specified for interface device interface-name; defaulting to port mode
Description The routing protocol process (rpd) received a message from the kernel that specified the cell-relay encapsulation for the indicated physical interface, but the specified cell-relay mode (port, or trunk user-to-network interface [UNI], or trunk network-to-network interface [NNI]) was invalid.

Type Error: An error occurred
Severity notice
Facility LOG_DAEMON

RPD_KRT_IFD_CELL_RELAY_NO_MODE

System Log Message No mode specified for interface device interface-name; defaulting to port mode
<table>
<thead>
<tr>
<th>Description</th>
<th>The routing protocol process (rpd) received a message from the kernel that specified the cell-relay encapsulation for the indicated physical interface, but not the cell-relay mode.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_KRT_IFD_GENERATION**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>ifd interface-device-index generation mismatch -- rpd rpd-generation kernel kernel-generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) received a message from the kernel in which the physical interface associated with the indicated numerical index differed from the interface-to-index mapping maintained by rpd.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>It is possible that rpd discarded some interface messages from the kernel without processing them because it received more messages than it could handle. It will recover.</td>
</tr>
</tbody>
</table>

**RPD_KRT_IFL_CELL_RELAY_INV_MODE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Invalid mode (mode) specified for logical interface interface-name; defaulting to port mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) received a message from the kernel that specified the cell-relay encapsulation for the indicated logical interface, but the specified cell-relay mode (port, virtual-circuit, or virtual-path) was invalid.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_KRT_IFL_CELL_RELAY_NO_MODE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>No mode specified for logical interface interface-name; defaulting to port mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) received a message from the kernel that specified the cell-relay encapsulation for the indicated logical interface but not the cell-relay mode.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
RPD_KRT_IFL_GENERATION

System Log Message

Description
The routing protocol process (rpd) received a message from the kernel in which the logical interface associated with the indicated numerical index differed from the interface-to-index mapping maintained by rpd.

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_DAEMON
Cause It is possible that rpd discarded some interface messages from the kernel without processing them because it received more messages than it could handle. It will recover.

RPD_KRT_KERNEL_BAD_ROUTE

System Log Message

task-name: lost interface-hierarchy logical-interface-index for route route-prefix

Description
As it restarted, the routing protocol process (rpd) could not process a route obtained from the kernel because the route contained references to objects that are no longer valid.

Type Event: This message reports an event, not an error
Severity warning
Facility LOG_DAEMON
Cause rpd did not recognize some elements in the route message, such as the logical interface index or an address family.

Action rpd can probably solve the problem, but check the entry for the indicated route prefix in the forwarding table. If the prefix’s route and forwarding table entry are inconsistent, contact a technical support representative for instructions. For more information, see KB19070.

RPD_KRT_NEXTHOP_OVERFLOW

System Log Message

type route-prefix: number of next hops (count) exceeded the maximum allowed (maximum-value) -- truncating

Description
The number of next hops for the indicated route exceeded the indicated limit for a single route add operation.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause: An indexed next hop can use multiple forwarding next hops per forwarding class. It is possible to have more next hops per route than can be carried in a single message. This requires that next hops be reused across forwarding classes, which is not recommended.

Action: Eliminate common next hops across forwarding classes, thereby reducing the total number of next hops that must be specified.

**RPD_KRT_NOIFD**

**System Log Message**: No device interface-device-index for interface logical-interface-index (interface-name)

**Description**: The routing protocol process (rpd) received a message from the kernel that associated the indicated physical interface device and logical interface. The rpd process has no record of the device.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

**Cause**: It is possible that rpd discarded some interface messages from the kernel without processing them because it received more messages than it could handle. It will recover.

**RPD_KRT_VERSION**

**System Log Message**: Routing socket version mismatch (kernel kernel-version != rpd rpd-version) -- kernel upgrade required

**Description**: The routing protocol process (rpd) discovered that the kernel does not support the version of routing sockets it requires.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

**Cause**: The kernel version is older than the rpd version.

**Action**: Upgrade the kernel package.

**RPD_KRT_VERSIONNONE**

**System Log Message**: Routing socket message type message-type's version is not supported by kernel, expected rpd-version -- kernel upgrade required

**Description**: The routing protocol process (rpd) discovered that the kernel does not support the routing socket message types that it requires.

**Type**: Error: An error occurred

**Severity**: error
Facility LOG_DAEMON
Cause The kernel version is older than the rpd version.
Action Upgrade the kernel package.

RPD_KRT_VERSIONOLD
System Log Message Routing socket message type message-type's version is older than expected (kernel-version < rpd-version) -- consider upgrading the kernel
Description The routing protocol process (rpd) discovered that the kernel uses an older version of routing socket message types than it does.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause The kernel version is older than the rpd version.
Action Upgrade the kernel package.

RPD_KRT_VPLS_IFL_MODIFY
System Log Message Unable to modify VPLS-related state: error-code (errno error-message)
Description The routing protocol process (rpd) attempted to modify the state for a logical interface that is related to virtual private LAN service (VPLS), but the request failed.
Type Event: This message reports an event, not an error
Severity info
Facility LOG_DAEMON
Cause It is possible that the kernel lacked the resources to fulfill the request. The rpd process will recover.

RPD_L2VPN_LABEL_ALLOC_FAILED
System Log Message Unable to allocate label-type labels for site name with ID identifier in instance vpn-name
Description The routing protocol process (rpd) could not allocate labels of the indicated type for the indicated site (name and ID) in the indicated virtual private network (VPN) virtual circuit (VC), because the resulting number of labels would have exceeded the limit.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
RPD_L2VPN_REMOTE_SITE_COLLISION

System Log Message  Two remote PEs (RDs route-discriminator and route-discriminator2) have the same site ID (identifier) in VPN vpn-name

Description  The routing protocol process (rpd) for the indicated virtual private network (VPN) received an advertisement from a remote provider edge (PE) router with the first indicated route discriminator, but the associated site ID also belongs to a remote site with the second route discriminator.

Type  Event: This message reports an event, not an error

Severity  warning

Facility  LOG_DAEMON

RPD_L2VPN_SITE_COLLISION

System Log Message  Same site ID identifier configured on remote PE (RD route-discriminator) and local PE in VPN vpn-name (non-multihomed site name)

Description  The routing protocol process (rpd) for the indicated virtual private network (VPN) received an advertisement from a remote provider edge (PE) router, but the associated site ID belongs to a local site.

Type  Event: This message reports an event, not an error

Severity  error

Facility  LOG_DAEMON

RPD_LAYER2_VC_BFD_DOWN

System Log Message  BFD session for Layer 2 VC vc-name went down

Description  The routing protocol process (rpd) determined that the Bidirectional Forwarding Detection (BFD) protocol session for the indicated Layer 2 virtual private network (VPN) virtual circuit (VC) terminated.

Type  Event: This message reports an event, not an error

Severity  notice

Facility  LOG_DAEMON

RPD_LAYER2_VC_BFD_UP

System Log Message  BFD session for Layer 2 VC vc-name came up

Description  The routing protocol process (rpd) determined that the Bidirectional Forwarding Detection (BFD) protocol session for the indicated Layer 2 virtual private network (VPN) virtual circuit (VC) came up.

Type  Event: This message reports an event, not an error

Severity  notice
Facility LOG_DAEMON

**RPD_LAYER2_VC_DOWN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>State of Layer 2 VC vc-name changed from UP to state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The state of the indicated Layer 2 virtual private network (VPN) virtual circuit (VC) changed as indicated (to either down or deleted).</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_LAYER2_VC_PING_DOWN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Ping failure for Layer 2 VC vc-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) determined that the Ping for the indicated Layer 2 virtual private network (VPN) virtual circuit (VC) failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_LAYER2_VC_UP**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>State of Layer 2 VC vc-name changed to UP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The state of the indicated Layer 2 virtual private network (VPN) virtual circuit (VC) changed to up.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_LDP_BFD_DOWN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>LDP BFD session for FEC fec-address went down</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) determined that the Label Distribution Protocol (LDP) Bidirectional Forwarding Detection (BFD) protocol session for the indicated forwarding equivalence class (FEC) terminated.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_LDP_BFD_DOWN_TRACEROUTE_FAIL**

| System Log Message | LDP BFD sessions for FEC fec-address going down due to traceroute failure |
Description: The routing protocol process (rpd) determined that the Label Distribution Protocol (LDP) Bidirectional Forwarding Detection (BFD) protocol session for the indicated forwarding equivalence class (FEC) was terminated due to traceroute failure.

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_DAEMON

**RPD_LDP_BFD_UP**

System Log Message: LDP BFD session for FEC `fec-address` came up

Description: The routing protocol process (rpd) determined that the Label Distribution Protocol (LDP) Bidirectional Forwarding Detection (BFD) protocol session for the indicated forwarding equivalence class (FEC) came up.

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_DAEMON

**RPD_LDP_GR_CFG_IGNORED**

System Log Message: LDP needs `duration` seconds for restart. Instance restart-duration is `time-period` seconds only. Graceful restart will not be attempted

Description: Instance restart-duration is less than that needed by LDP to finish graceful-restart. LDP GR will not be attempted.

Type: Event: This message reports an event, not an error

Severity: warning

Facility: ANY

Action: Modify the instance restart-duration and ldp GR configurations.

**RPD_LDP_INTF_BLOCKED**

System Log Message: Duplicate session ID detected from `neighbor-address`, interface `interface-name`, blocking interface

Description: Label Distribution Protocol (LDP) operations were blocked on the indicated interface because the same session ID was detected across multiple interfaces but per-interface transport addresses are in use.

Type: Event: This message reports an event, not an error

Severity: warning

Facility: LOG_DAEMON
**RPD_LDP_INTF_Unblocked**

**System Log Message**
LDP interface *interface-name* is now unblocked

**Description**
The indicated interface returned to the normal Label Distribution Protocol (LDP) operational state. It was previously blocked because the routing protocol process (rpd) noticed that a duplicate session ID was being used.

**Type**
Event: This message reports an event, not an error

**Severity**
warning

**Facility**
LOG_DAEMON

**RPD_LDP_NBR_DOWN**

**System Log Message**
LDP neighbor *neighbor-address* (*interface-name*) is down

**Description**
A Label Distribution Protocol (LDP) adjacency was terminated because the indicated neighbor stopped communicating. If the adjacency was the only one with this neighbor, the routing protocol process (rpd) terminated the associated LDP session.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_DAEMON

**RPD_LDP_NBR_UP**

**System Log Message**
LDP neighbor *neighbor-address* (*interface-name*) is up

**Description**
A Label Distribution Protocol (LDP) adjacency with the indicated neighbor became active. The routing protocol process (rpd) established an LDP session with the neighbor if one did not already exist.

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
LOG_DAEMON

**RPD_LDP_PING_DOWN**

**System Log Message**
LDP LSP ping failure for FEC *fec-address*

**Description**
The routing protocol process (rpd) determined that LSP ping returned error for the indicated forwarding equivalence class (FEC) of Label Distribution Protocol (LDP).

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_DAEMON
### RPD_LDP_SESSIONDOWN

**System Log Message**: LDP session `neighbor-address` is down, reason: `reason`

**Description**: The routing protocol process (rpd) terminated a Label Distribution Protocol (LDP) session with the indicated neighbor and deleted all labels exchanged during the session.

**Type**: Event: This message reports an event, not an error

**Severity**: notice

**Facility**: LOG_DAEMON

### RPD_LDP_SESSIONUP

**System Log Message**: LDP session `neighbor-address` is up

**Description**: The routing protocol process (rpd) established a Label Distribution Protocol (LDP) session with the indicated neighbor. The routers began exchanging labels.

**Type**: Event: This message reports an event, not an error

**Severity**: info

**Facility**: LOG_DAEMON

### RPD_LMP_ALLOC_ACK

**System Log Message**: Unknown context in ALLOC_ACK message

**Description**: The routing protocol process (rpd) received a label allocation acknowledgment that contained invalid context.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

### RPD_LMP_ALLOC_REQUEST_TIMEOUT

**System Log Message**: Allocation request timeout for context `0xaddress`, client request ID `0xrequest-id`

**Description**: The label allocation request with the indicated client request ID and for the indicated context timed out before completion.

**Type**: Event: This message reports an event, not an error

**Severity**: error

**Facility**: LOG_DAEMON

### RPD_LMP_CONTROL_CHANNEL

**System Log Message**: `operation` operation failed: control channel `logical-interface-index` unknown

**Description**: The routing protocol process (rpd) received a message that specified the indicated type of operation on the indicated control channel. The channel does not exist.
<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_LMP_NO_CALLBACK**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>No function callback for label removed event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) could not notify a client that a label was removed, because there was no function callback for the removal event.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
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</tr>
</tbody>
</table>

**RPD_LMP_NO_MEMORY**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: malloc() failed (error-message, errno error-code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) could not allocate memory.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
</tbody>
</table>

**RPD_LMP_NO_PEER**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Peer peer-id not found for TE link link-name (index link-id)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) could not locate the indicated peer while processing a TE LINK message for the traffic-engineering link with the indicated name and index.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
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<tr>
<td>Facility</td>
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</tr>
</tbody>
</table>

**RPD_LMP_PEER**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>operation operation failed: peer peer-name (index peer-id) reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) could not perform the indicated operation for the peer with the indicated name and index, for the indicated reason.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
RPD_LMP_PEER_IFL

System Log Message  operation operation failed because reason for peer peer-name (index peer-id):
error-message (errno error-code)

Description  The routing protocol process (rpd) could not perform the indicated operation for the
peer with the indicated name and index, for the indicated reason.

Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON

RPD_LMP_PEER_INDEX

System Log Message  No more peer indexes

Description  No more peer indexes were available for allocation.

Type  Event: This message reports an event, not an error
Severity  error
Facility  LOG_DAEMON

RPD_LMPRESOURCE

System Log Message  operation operation failed: resource resource (type type, index index) reason

Description  The routing protocol process (rpd) could not perform the indicated operation for the
resource with the indicated name, type, and index, for the indicated reason.

Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON

RPD_LMP_RESOURCE_NO_LINK

System Log Message  TE link link-id not found for resource resource (type type, index index)

Description  The routing protocol process (rpd) could not locate the indicated traffic-engineering link
for the resource with the indicated name, type, and index.

Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON

RPD_LMP_SEND

System Log Message  function-name: handling write exception (error-message, errno error-code)

Description  The routing protocol process (rpd) could not send a message to the Label Management
Protocol (LMP) process (lmpd).
### RPD_LMP_SEND_ALLOCATION_MESSAGE

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
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<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
Unable to send allocation message: `error-message (error-code)`

**Description**
The routing protocol process (rpd) could not send an allocation message.

### RPD_LMP_SYSFAIL

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
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<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
Unable to start type timer

**Description**
The routing protocol process (rpd) discovered that the Label Management Protocol (LMP) process (lmpd) was not running. The rpd process attempted to start the indicated type of timer for restarting the lmpd process or reestablishing a connection to it, but the attempt failed.

### RPD_LMP_TE_LINK

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
`operation operation failed: TE link link-name (index index) reason`

**Description**
The routing protocol process (rpd) could not perform the indicated operation for the traffic-engineering link with the indicated name and index, for the indicated reason.

### RPD_LMP_TE_LINK_INDEX

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
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</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**System Log Message**
No more TE-link indexes

**Description**
No more traffic-engineering link indexes were available for allocation.
**RPD_LMP_UNEXPECTED_OPCODE**

**System Log Message**  
_message-type_ message had unexpected operation code _operation-code_

**Description**  
The routing protocol process (rpd) received the indicated type of message, which had the indicated invalid operation code.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Action**  
For more information, see KB19072.

**RPD_LOCK_FLOCKED**

**System Log Message**  
Unable to obtain a lock on _filename_, is another copy of rpd running?

**Description**  
The routing protocol process (rpd) could not obtain the mutual exclusion lock that prevents more than one instance of rpd from running simultaneously. The system terminated the indicated process.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
Another rpd process is running.

**Action**  
Use the 'show system process' command to verify that another rpd is running.

**RPD_LOCK_LOCKED**

**System Log Message**  
Unable to obtain a lock on _filename_, _program-name_[_pid_] is still running

**Description**  
The routing protocol process (rpd) could not obtain the mutual exclusion lock that prevents more than one instance of rpd from running simultaneously. The system terminated this instance of rpd.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
Another rpd is running.

**Action**  
Use the 'show system process' command to verify that another rpd is running.
**RPD_MC_CFG_CREATE_ENTRY_FAILED**

- **System Log Message**: Could not create entry for *entry*.
- **Description**: The multicast configuration request failed because the routing protocol process (rpd) failed to create the specified configuration entry.
- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON
- **Action**: Contact your technical support representative.

**RPD_MC_CFG_FWDCACHE_CONFLICT**

- **System Log Message**: Multicast forwarding-cache: reuse value must be less than or equal to suppress value
- **Description**: Multicast forwarding-cache reuse value is configured to be greater than the suppress value. Reuse value must be less than or equal to the suppress value.
- **Type**: Event: This message reports an event, not an error
- **Severity**: warning
- **Facility**: ANY

**RPD_MC_CFG_PREFIX_LEN_SHORT**

- **System Log Message**: Multicast argument: prefix length *prefix-length* is too short for prefix *route-prefix*, ignoring excess host bits
- **Description**: The prefix length for the indicated prefix is too short and it has a non-zero host portion. Excess host bits will be ignored.
- **Type**: Event: This message reports an event, not an error
- **Severity**: warning
- **Facility**: ANY

**RPD_MC_COSD_WRITE_ERROR**

- **System Log Message**: Unable to write to pipe to COS process: *(error-message)*
- **Description**: The routing protocol process (rpd) could not write a message on the write pipe to the Class Of Service process (cosd).
- **Type**: Error: An error occurred
- **Severity**: info
- **Facility**: LOG_DAEMON
- **Action**: Contact your technical support representative.
RPD_MC_DESIGNATED_PE_CHANGE
System Log Message: Designated forwarder changed to ip-address for backup-pe-group group-name in routing-instance instance
Description: The routing protocol daemon (rpd) assigned the indicated Provider Edge (PE) as the new designated forwarder of the indicated routing instance for the indicated backup-pe-group.
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON

RPD_MC_DYN_CFG_ALREADY_BOUND
System Log Message: Dynamic configuration session id client-session-id for interface interface-name is already bound to interface old-interface-name.
Description: The dynamic configuration instantiation request was rejected because the specified dynamic configuration session ID was already bound to another interface.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Unbind the session ID from the existing interface.

RPD_MC_DYN_CFG_SES_ID_ADD_FAIL
System Log Message: Failed to add dynamic configuration session id client-session-id to interface interface-name.
Description: The dynamic configuration instantiation request was rejected because the routing protocol process failed to associate the specified dynamic configuration session ID with the specified interface.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Contact your technical support representative.

RPD_MC_DYN_CFG_SES_ID_MISMATCH
System Log Message: Dynamic configuration entry for interface interface-name with session id client-session-id found an existing entry with a different session id of client-session-id-1.
Description: The dynamic configuration instantiation request was rejected because the request matched an existing dynamic configuration block that had a different session ID.
<table>
<thead>
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<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**RPD_MC_LOCAL_DESIGNATED_PE**

**System Log Message**
Local PE is now the designated forwarder for backup-pe-group *group-name* in routing-instance *instance*.

**Description**
The routing protocol daemon (rpd) selected the local Provider Edge (PE) as the designated forwarder of the indicated routing instance for the indicated backup-pe-group.

<table>
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</tr>
</tbody>
</table>

**RPD_MC_OIF_REJECT**

**System Log Message**
Interface *interface-name* is rejected due to lack of bw.

**Description**
When multicast bandwidth admission control is applied, an interface may not be put into the downstream interface list for a forwarding cache if the interface does not have enough bandwidth for the flow, even when a multicast protocol determines that there are local/downstream receivers.

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_MC_OIF_RE_ADMIT**

**System Log Message**
Interface *interface-name* is re-admitted with newly available bw.

**Description**
The indicated downstream interface that was previously rejected was readmitted for the flow because there was newly available bandwidth on the interface.

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_MGMT_TIMEOUT**

**System Log Message**
Connection to management peer *process-name* timed out waiting for input.

**Description**
The connection between the routing protocol process (rpd) and the indicated management process (mgd) timed out before input arrived from the mgd process.
RPD_MIRROR_ERROR
System Log Message  Unable to establish mirror connection between Routing Engines: error-message
Description  The routing protocol process (rpd) could not establish the mirror connection (which supports nonstop routing) between the master and backup Routing Engines.

RPD_MIRROR_VERSION_MISMATCH
System Log Message  Versions of mirror software on Routing Engines are incompatible: error-message
Description  While trying to establish the mirror connection between the master and backup Routing Engines (which supports nonstop routing), the routing protocol process (rpd) determined that the versions of Junos OS on the Routing Engines were incompatible.

RPD_MLD_ACCOUNTING_OFF
System Log Message  interface-name time
Description  The Multicast Listener Discovery (MLD) accounting for the indicated interface was disabled at the indicated time.

RPD_MLD_ACCOUNTING_ON
System Log Message  interface-name time
Description  The Multicast Listener Discovery (MLD) accounting for the indicated interface was enabled at the indicated time.

Type  Event: This message reports an event, not an error

Severity  info

Facility  LOG_DAEMON

**RPD_MLD_ALL_SUBSCRIBERS_DELETED**

*System Log Message*  All MLD subscribers on interface *interface-name* deleted at *time* because the interface is down

*Description*  All MLD subscribers have been deleted because the interface is down.

*Type*  Event: This message reports an event, not an error

*Severity*  info

*Facility*  LOG_DAEMON

**RPD_MLD_CFG_CREATE_ENTRY_FAILED**

*System Log Message*  Could not create entry for *entry*.

*Description*  MLD failed to create the indicated configuration entry. The configuration request failed.

*Type*  Error: An error occurred

*Severity*  error

*Facility*  LOG_DAEMON

*Action*  Contact your technical support representative.

**RPD_MLD_CFG_GROUP_OUT_OF_RANGE**

*System Log Message*  The combination of group-count *count* and group-increment *ip-address* causes some of the groups out of range.

*Description*  The configuration request failed because the indicated configuration object contained a group that is out of range.

*Type*  Error: An error occurred

*Severity*  error

*Facility*  LOG_DAEMON

*Action*  Modify configuration statement to use a valid value.

**RPD_MLD_CFG_INVALID_VALUE**

*System Log Message*  The *object-name* configuration object *identifier* field has an invalid value of *value*
<table>
<thead>
<tr>
<th>Description</th>
<th>The configuration request failed because the indicated configuration object contained the indicated invalid value.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Modify configuration statement to use a valid value.</td>
</tr>
</tbody>
</table>

**RPD_MLD_CFG_SOURCE_OUT_OF_RANGE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>The combination of source-count count and source-increment ip-address causes some of the sources out of range.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The configuration request failed because the indicated configuration object contained a source that is out of range.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Modify configuration statement to use a valid value.</td>
</tr>
</tbody>
</table>

**RPD_MLD_DYN_CFG_ALREADY_BOUND**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Dynamic configuration session id client-session-id for interface interface-name is already bound to interface old-interface-name.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated dynamic configuration session id is already bound to another interface. The dynamic configuration instantiation request was rejected.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>Unbind session id from existing interface.</td>
</tr>
</tbody>
</table>

**RPD_MLD_DYN_CFG_INVALID_STMT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Invalid dynamic configuration statement: configuration-statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated dynamic configuration statement was invalid. The dynamic configuration instantiation request was rejected.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
### RPD_MLD_DYN_CFG_SES_ID_ADD_FAIL

**System Log Message**
Failed to add dynamic configuration session id `client-session-id` to interface `interface-name`.

**Description**
Failed to associate the indicated dynamic configuration session id to specified interface. The dynamic configuration instantiation request was rejected.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

### RPD_MLD_DYN_CFG_SES_ID_MISMATCH

**System Log Message**
Dynamic configuration entry for interface `interface-name` with session id `client-session-id` found an existing entry with a different session id of `client-session-id-1`.

**Description**
The dynamic configuration instantiation request matched an existing dynamic configuration block that had a different session id. The dynamic configuration instantiation request was rejected.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Action**
Contact your technical support representative.

### RPD_MLD_JOIn

**System Log Message**
Listener `source-address` sent a join to `destination-address` for group `group-address` source `sender-address` on interface `interface-name` at time

**Description**
MLD join event.

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
LOG_DAEMON

### RPD_MLD_LEAVE

**System Log Message**
Listener `source-address` sent a leave to `destination-address` for group `group-address` source `sender-address` on interface `interface-name` at time

**Description**
MLD leave event.

**Type**
Event: This message reports an event, not an error

**Severity**
info
RPD_MLD_MEMBERSHIP_TIMEOUT

System Log Message: Membership timeout for listener source-address for group group-address source sender-address on interface interface-name at time

Description: MLD group membership timeout.

Type: Event: This message reports an event, not an error

Severity: info

Facility: LOG_DAEMON

RPD_MLD_ROUTER_VERSION_MISMATCH

System Log Message: MLD version mismatch on interface-name. Local version: local-version Remote version: remote-version

Description: The MLD version running on the local router does not match the one received in the query

Type: Event: This message reports an event, not an error

Severity: warning

Facility: LOG_DAEMON

RPD_MPLS_INTERFACE_ROUTE_ERROR

System Log Message: Unable to add route in table table-name for label mpls-label pointing to interface-name

Description: There was a failure in adding a Multiprotocol Label Switching (MPLS) route pointing to an interface

Type: Event: This message reports an event, not an error

Severity: notice

Facility: LOG_DAEMON

RPD_MPLS_INTF_MAX_LABELS_ERROR

System Log Message: Maximum labels exceeded - failed to stack additional label to nexthop on interface interface-name

Description: There was a failure in stacking additional label to a nexthop which already has maximum number of labels allowed for the interface

Type: Error: An error occurred

Severity: warning

Facility: LOG_DAEMON

RPD_MPLS_LSP_AUTOBW_NOTICE

System Log Message: mpls LSP lsp-name Autobw already in progress, ignoring new trigger
RPD_MPLS_LSP_BANDWIDTH_CHANGE

<table>
<thead>
<tr>
<th>Description</th>
<th>The bandwidth associated with the indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) changed.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

System Log Message
MPLS LSP lsp-name bandwidth changed, lsp bandwidth bandwidth bps

RPD_MPLS_LSP_CHANGE

<table>
<thead>
<tr>
<th>Description</th>
<th>The indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) was rerouted and its Record Route Object (RRO) changed.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

System Log Message
MPLS LSP lsp-name change on path-type(pathname) Route lsp-rrt lsp bandwidth bandwidth bps

RPD_MPLS_LSP_DOWN

<table>
<thead>
<tr>
<th>Description</th>
<th>The indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) went down and could not be used to send traffic.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

System Log Message
MPLS LSP lsp-name down on path-type(pathname)

RPD_MPLS_LSP_SWITCH

<table>
<thead>
<tr>
<th>Description</th>
<th>The indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) switched from primary path to secondary path or vice versa.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_MPLS_LSP_UP**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>MPLS LSP lsp-name up on path-type(pathname) Route lsp-rro lsp bandwidth bandwidth bps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) came up and could be used to send traffic.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_MPLS_OAM_LSP_PING_REPLY_ERR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Received ping reply with an error: error-code.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Received a LSP ping reply with an error code, for the ping request sent. If any failure action is configured, the failure action will get executed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_MPLS_OAM_PING_REPLY_TIMEOUT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>LSP ping reply timed out</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>LSP ping timed out waiting for a reply. If any failure action is configured, the failure action will get executed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_MPLS_OAM_READ_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to read from pipe to MPLS OAM process: reason (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) could not read a message available on the read pipe from the MPLS Operation, Administration, and Maintenance process (mplsoamd).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
RPD_MPLS_OAM_WRITE_ERROR
System Log Message: Unable to write to pipe to MPLS OAM process: (error-message)
Description: The routing protocol process (rpd) could not write a message on the write pipe to the MPLS Operation, Administration, and Maintenance process (mplsoamd).
Type: Error: An error occurred
Severity: info
Facility: LOG_DAEMON
Action: Contact your technical support representative.

RPD_MPLS_PATH_BANDWIDTH_CHANGE
System Log Message: MPLS path pathname (lsp lsp-name) bandwidth changed, path bandwidth bandwidth bps
Description: The bandwidth associated with the indicated Multiprotocol Label Switching (MPLS) path changed.
Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON

RPD_MPLS_PATH_BFD_DOWN
System Log Message: BFD session for MPLS path pathname went down on LSP lsp-name
Description: The routing protocol process (rpd) determined that the Bidirectional Forwarding Detection (BFD) protocol session for the indicated Multiprotocol Label Switching (MPLS) path terminated on the indicated label-switched path (LSP).
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON

RPD_MPLS_PATH_BFD_UP
System Log Message: BFD session for MPLS path pathname came up on LSP lsp-name
Description: The routing protocol process (rpd) determined that the Bidirectional Forwarding Detection (BFD) protocol session for the the indicated Multiprotocol Label Switching (MPLS) path came up on the indicated label-switched path (LSP).
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON

**RPD_MPLS_PATH_BW_NOT_AVAILABLE**

*System Log Message:* Unable to satisfy bandwidth configured for MPLS path *pathname* on LSP *lsp-name*

*Description:* The bandwidth setting for the indicated Multiprotocol Label Switching (MPLS) path and label-switched path (LSP) was changed recently, but attempts to apply the new setting failed. The LSP continued to use the previous amount of bandwidth.

*Type:* Event: This message reports an event, not an error  
*Severity:* warning  

**Action:** Determine the reason that the bandwidth could not change and make the necessary changes to the software configuration, hardware configuration, or both.

**RPD_MPLS_PATH_DOWN**

*System Log Message:* MPLS path *pathname* down on LSP *lsp-name*

*Description:* The indicated Multiprotocol Label Switching (MPLS) path went down on the indicated label-switched path (LSP).

*Type:* Event: This message reports an event, not an error  
*Severity:* warning  

**RPD_MPLS_PATH_PING_DOWN**

*System Log Message:* LSP ping failure occurred for MPLS path *pathname* on LSP *lsp-name*

*Description:* The routing protocol process (rpd) determined that the LSP ping returned error for the indicated Multiprotocol Label Switching (MPLS) path terminated on the indicated label-switched path (LSP).

*Type:* Event: This message reports an event, not an error  
*Severity:* notice  

**RPD_MPLS_PATH_UP**

*System Log Message:* MPLS path *pathname* up on LSP *lsp-name* path bandwidth *bandwidth* bps

*Description:* The indicated Multiprotocol Label Switching (MPLS) path came up on the indicated label-switched path (LSP).

*Type:* Event: This message reports an event, not an error  
*Severity:* warning
Facility LOG_DAEMON

RPD_MPLS_REQ_BW_NOT_AVAILABLE
System Log Message Requested bandwidth unavailable for MPLS path *pathname* on LSP *lsp-name*
Description After a successful CSPF computation, network conditions changed and RSVP failed to set up the path with the requested bandwidth which resulted in a path error. The LSP did not come up if the error occurred when the LSP was initially established. Otherwise, during an optimization or auto-bandwidth adjustment, the LSP continued to stay up on the old path and used the previous amount of bandwidth.

Type Event: This message reports an event, not an error
Severity warning
Facility LOG_DAEMON

RPD_MPLS_TABLE_ROUTE_ERROR
System Log Message Unable to add route in table *table-name* for label *mpls-label* pointing to *next-table-name*
Description There was a failure in adding a Multiprotocol Label Switching (MPLS) route pointing to another MPLS routing table

Type Event: This message reports an event, not an error
Severity notice
Facility LOG_DAEMON

RPD_MSDP_CFG_SA_LIMITS_CONFLICT
System Log Message Threshold value *threshold* must be less than or equal to maximum value *maximum-value*. Setting threshold to maximum
Description The MSDP active-source-limit threshold is either undefined or exceeds the maximum value. Threshold will be set to maximum.

Type Event: This message reports an event, not an error
Severity warning
Facility ANY
Action Consider modifying the MSDP active-source-limit configurations.

RPD_MSDP_CFG_SRC_INVALID
System Log Message *argument* is an invalid source address
Description The indicated MSDP source is configured with an invalid address

Type Event: This message reports an event, not an error
Severity warning
Facility: ANY
Action: Modify the configuration statement to use a valid value.

**RPD_MSDP_PEER_DOWN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSDP peer peer-address peer-group peer-group out of Established state</td>
<td>The indicated MSDP peer left the Established state. The routing protocol process (rpd) deleted all active sources learned from the peer and will no longer send 'Source Active' messages to it.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Severity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
</tr>
</tbody>
</table>

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<tr>
<th>Facility</th>
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<tr>
<td>LOG_DAEMON</td>
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</table>

**RPD_MSDP_PEER_UP**

<table>
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<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSDP peer peer-address peer-group peer-group into Established state</td>
<td>The indicated MSDP peer entered the Established state.</td>
</tr>
</tbody>
</table>

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<tr>
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<tbody>
<tr>
<td>Event: This message reports an event, not an error</td>
<td>info</td>
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<td>LOG_DAEMON</td>
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</table>

**RPD_MSDP_SRC_ACTIVE_OVER_LIMIT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of MSDP source-active messages about originator exceeded configured limit message</td>
<td>The number of MSDP source-active messages received from the indicated instance, peer, or source exceeded the configured limit. All source-active messages are discarded until the limit is no longer exceeded. During periods when the event reported by this message occurs frequently, the routing protocol process (rpd) does not log every occurrence. In this case, the repetitions field in the message indicates how many times the event occurred since the rpd process previously logged this message.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Severity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
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</tbody>
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<tr>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_MSDP_SRC_ACTIVE_OVER_THRESH**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of MSDP source-active messages about originator exceeded configured threshold message</td>
<td>The number of MSDP source-active messages received from the indicated instance, peer, or source exceeded the configured threshold. Until the threshold is no longer exceeded, a random early discard (RED) profile is applied to incoming messages so that</td>
</tr>
</tbody>
</table>
only some of them are accepted. During periods when the event reported by this message occurs frequently, the routing protocol process (rpd) does not log every occurrence. In this case, the repetitions field in the message indicates how many times the event occurred since the rpd process previously logged this message.

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<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_MSDP_SRC_ACTIVE_UNDER_LIMIT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Number of MSDP source-active messages about originator no longer exceeded configured limit message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of MSDP source-active messages received from the indicated instance, peer, or source no longer exceeded the configured limit. Active-source messages are no longer discarded automatically. During periods when the event reported by this message occurs frequently, the routing protocol process (rpd) does not log every occurrence. In this case, the repetitions field in the message indicates how many times the event occurred since the rpd process previously logged this message.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_MSDP_SRC_ACTIVE_UNDER_THRESH**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Number of MSDP source-active messages about originator no longer exceeded configured threshold message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of MSDP source-active messages received from the indicated instance, peer, or source no longer exceeded the configured threshold. A random early discard (RED) profile is no longer applied to incoming messages. During periods when the event reported by this message occurs frequently, the routing protocol process (rpd) does not log every occurrence. In this case, the repetitions field in the message indicates how many times the event occurred since the rpd process previously logged this message.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_MVPN_CFG_PREFIX_LEN_SHORT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>MVPN argument: prefix length prefix-length is too short for prefix route-prefix, ignoring excess host bits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The prefix length for MVPN source or group object is too short and the indicated prefix has a non-zero host portion. Excess host bits will be ignored.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY

**RPD_OSPF_CFGNBR_P2P**

**System Log Message**: Ignored configured neighbors on point-to-point realm *realm-name* interface *interface-name* area *area-id*

**Description**: For point-to-point interfaces, OSPF neighbors are learned by using hello messages, so the implicit configuration of neighbors was ignored for the indicated point-to-point interface.

Type: Error: An error occurred
Severity: warning
Facility: LOG_DAEMON
Action: Remove the neighbor configuration for the indicated interface.

**RPD_OSPF_IF_COST_CHANGE**

**System Log Message**: Interface *interface-name* (*interface-address*) area *area-id*: cost changed cost -> *metric*

**Description**: OSPF interface cost changed due to change in interface bandwidth.

Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_DAEMON

**RPD_OSPF_LDP_SYNC**

**System Log Message**: OSPF realm *realm-name* interface *interface-name* area *area-id* advertised with infinite metric for *duration* seconds already due to loss of synchronization with LDP

**Description**: The OSPF protocol lost synchronization with the Label Distribution Protocol (LDP) on the indicated interface. As a consequence, it began advertising an infinite metric for the interface and has been doing so for the indicated number of seconds.

Type: Error: An error occurred
Severity: warning
Facility: LOG_DAEMON
Action: Determine why LDP lost synchronization with OSPF.

**RPD_OSPF_LSA_MAXIMUM_EXCEEDED**

**System Log Message**: OSPF realm *realm-name* number of non-local LSAs exceeded maximum limit
Description: The number of non self-generated LSAs exceeded maximum limit specified for database protection in the indicated realm. Consequently, all non self-generated LSA were deleted and all neighbors were killed. The router will not send any OSPF hellos and will ignore any incoming OSPF packets till ignore-time has elapsed.

Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON

**RPD_OSPF_NBRDOWN**

System Log Message: OSPF neighbor neighbor-address (realm realm-name interface-name area area-id) state changed from old-state to new-state due to event-name (event reason: reason)

Description: An OSPF adjacency with the indicated neighboring router was terminated. The local router no longer exchanges routing information with, or directs traffic to, the neighboring router.

Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON
Action: For more information, see KB19074.

**RPD_OSPF_NBRUP**

System Log Message: OSPF neighbor neighbor-address (realm realm-name interface-name area area-id) state changed from old-state to new-state due to event-name (event reason: reason)

Description: An OSPF adjacency was established with the indicated neighboring router. The local router can now exchange information with it.

Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_DAEMON
### RPD_OSPF_OVERLOAD

**System Log Message**  OSPF instance *instance* topology *topology* is going into overload state: number of export prefixes (*count*) exceeded maximum allowed (*maximum-value*)

**Description**  The indicated topology in the indicated OSPF instance became overloaded and will remain in that state until an administrator intervenes.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The number of export prefixes exceeded the configured limit.</td>
</tr>
<tr>
<td>Action</td>
<td>Unconfigure or modify export policies that inject a large number of routes.</td>
</tr>
</tbody>
</table>

### RPD_OSPF_TOPO_IF_COST_CHANGE

**System Log Message**  Interface *interface-name* (*interface-address*) area *area-id* topology *topology*: cost changed *cost* -> *metric*

**Description**  OSPF topology interface cost changed due to change in interface bandwidth.

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### RPD_OS_MEMHIGH

**System Log Message**  Using size KB of memory, *percentage-value* percent of available

**Description**  The routing protocol process (rpd) is using the indicated amount and percentage of Routing Engine memory, which is considered excessive.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>Either rpd is leaking memory or the use of system resources is excessive, perhaps because routing filters are misconfigured or the configured network topology is very complex.</td>
</tr>
<tr>
<td>Action</td>
<td>Increase the amount of RAM in the Routing Engine. For more information, see <a href="#">KB14186</a>.</td>
</tr>
</tbody>
</table>

### RPD_PARSE_BAD_LR_NAME

**System Log Message**  *executable-name*: logical system name "*logical-system-name*" exceeds *count* characters

**Description**  The indicated logical system name exceeds the indicated maximum number of characters.
**Type**    Error: An error occurred

**Severity** error

**Facility** LOG_DAEMON

**Action** Assign a shorter name.

---

**RPD_PARSE_BAD_OPTION**

**System Log Message**   executable-name: command-line option *option* is invalid

**Description** The command line used to start the indicated process included the indicated option, which is invalid. The process did not start.

---

**RPD_PARSE_CMD_ARG**

**System Log Message**   executable-name: missing required argument for command-line option *option*

**Description** The command line used to start the indicated process did not include the argument required by the indicated option. The process did not start.

---

**RPD_PARSE_CMD_DUPLICATE**

**System Log Message**   executable-name: command-line option *option* is a duplicate

**Description** The command line used to start the indicated process included the indicated duplicate option. The process did not start.

---

**RPD_PARSE_CMD_EXTRA**

**System Log Message**   executable-name: command-line option *option* is extraneous

---

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Description: The command line used to start the indicated process included the indicated option, which is extraneous. The process did not start.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Action: Reissue the command and omit the extraneous option.

**RPD_PIM_NBRDOWN**

System Log Message: Instance routing-instance: PIM neighbor neighbor-address (interface-name) removed due to: reason
Description: The routing protocol process (rpd) declared the indicated PIM neighbor inactive.
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_DAEMON

**RPD_PIM_NBRUP**

System Log Message: Instance routing-instance: PIM new neighbor neighbor-address interface interface-name
Description: The routing protocol process (rpd) discovered the indicated new PIM neighbor on the indicated interface.
Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_DAEMON

**RPD_PLCY_CFG_COMMUNITY_FAIL**

System Log Message: Failed to parse community string under policy-options: error-message
Description: The routing protocol process (rpd) encountered a non-catastrophic error in bgp community member string while parsing policy-options.
Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY

**RPD_PLCY_CFG_FWDCLASS_OVERRIDDEN**

System Log Message: argument supersedes forwarding-class under policy-statement policy-name
Description: During configuration parsing, a destination-class or source-class statement overrode the forwarding-class statement.
RPD_PLCY_CFG_IFALL_NOMATCH

System Log Message: The interface 'all' statement under policy-statement *policy-name* will not match anything.

Description: Interface 'all' does not have any special meaning under the policy-options hierarchy unlike under various other hierarchies.

RPD_PLCY_CFG_NH_NETMASK

System Log Message: Netmask ignored for next hop: *argument*.

Description: A netmask was specified with the indicated next hop. The netmask is ignored. In a future release, a next hop address with netmask may generate a configuration error.

RPD_PLCY_CFG_PARSE_GEN_FAIL


Description: A conflict was detected while parsing the policy-options configuration hierarchy.

RPD_PLCY_CFG_PREFIX_LEN_SHORT

System Log Message: Prefix length *prefix-length* is too short for prefix *route-prefix* under policy-statement *policy-name*, ignoring excess host bits.

Description: The prefix length for the indicated prefix is too short and it has a non-zero host portion. Excess host bits will be ignored.
RPD_PPM_READ_ERROR

System Log Message  Read error on pipe from ppmd: reason (error-message)

Description  The routing protocol process (rpd) could not read a message available on the read pipe from the periodic packet management process (ppmd).

Type  Error: An error occurred

Severity  info

Facility  LOG_DAEMON

Action  Contact your technical support representative.

RPD_PPM_WRITE_ERROR

System Log Message  function-name: write error on pipe to ppmd (error-message)

Description  The routing protocol process (rpd) could not write a message on the pipe to the periodic packet management process (ppmd).

Type  Error: An error occurred

Severity  error

Facility  LOG_DAEMON

Action  Contact your technical support representative.

RPD_PTHREAD_CREATE

System Log Message  Task pthread worker creation failed

Description  During rpd initialization, the creation of a thread failed.

Type  Error: An error occurred

Severity  alert

Facility  LOG_DAEMON

Action  Run the following command from the CLI: restart routing

RPD_RA_CFG_CREATE_ENTRY_FAILED

System Log Message  Could not create entry for entry.

Description  The configuration request failed because the IPv6 routing advertisements failed to create the indicate configuration entry.

Type  Error: An error occurred

Severity  error

Facility  LOG_DAEMON
<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RPD_RA_CFG_INVALID_VALUE</strong></td>
<td>The object-name configuration object identifier field has an invalid value of value.</td>
<td>Type</td>
<td>Error</td>
<td>LOG_DAEMON</td>
<td>Change the value in the configuration statement to a valid one.</td>
</tr>
<tr>
<td><strong>RPD_RA_DYN_CFG_ALREADY_BOUND</strong></td>
<td>Dynamic configuration session id client-session-id for interface interface-name is already bound to interface old-interface-name.</td>
<td>Type</td>
<td>Error</td>
<td>LOG_DAEMON</td>
<td>Unbind session id from existing interface.</td>
</tr>
<tr>
<td><strong>RPD_RA_DYN_CFG_INVALID_STMT</strong></td>
<td>Invalid dynamic configuration statement: configuration-statement</td>
<td>Type</td>
<td>Error</td>
<td>LOG_DAEMON</td>
<td>Remove the unsupported configuration statement.</td>
</tr>
<tr>
<td><strong>RPD_RA_DYN_CFG_SES_ID_ADD_FAIL</strong></td>
<td>Failed to add dynamic configuration session id client-session-id to interface interface-name.</td>
<td>Type</td>
<td>Error</td>
<td>LOG_DAEMON</td>
<td>The dynamic configuration instantiation request was rejected because it failed to associate the indicated session ID with the specified interface.</td>
</tr>
</tbody>
</table>
**RPD_RA_DYN_CFG_SES_ID_MISMATCH**

**System Log Message:** Dynamic configuration entry for interface `interface-name` with session id `client-session-id` found an existing entry with a different session id of `client-session-id-1`.

**Description:** The dynamic configuration instantiation request was rejected because it matched an existing dynamic configuration block that had a different session ID.

**RPD_RDISC_CKSUM**

**System Log Message:** Bad checksum for router solicitation from `source-address` to `destination-address`

**Description:** The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated address because the checksum in the message’s ICMP header was invalid.

**RPD_RDISC_NOMULTI**

**System Log Message:** Ignoring interface `interface-address` on `interface-name` -- multicast not available

**Description:** The indicated interface was configured for router discovery, but does not support IP multicast operations as required. The routing protocol process (rpd) did not enable router discovery on the interface.
RPD_RDISC_NORECVIF
System Log Message: Unable to locate interface for router solicitation from source-address to destination-address
Description: The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated router because the router's IP address does not share the IP prefix of the local router. The local router is not a candidate for the indicated router because they are not on the same network.
Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON
Cause: Although the indicated router seems to be locally attached, no interfaces on the local router are configured to handle its IP address. Either the indicated router is configured with the wrong IP address, or the local router is not correctly configured for the network that the indicated router is using.
Action: Ignore this message if it indicates the desired configuration, or reconfigure one or both routers to share a common network.

RPD_RDISC_SOLICITADDR
System Log Message: Expected multicast (expected-address) for router solicitation from source-address to destination-address
Description: A router discovery solicitation message received from the indicated address was not sent to the expected multicast address for all routers.
Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON
Action: Examine the configuration of the router that generated the router discovery solicitation message.

RPD_RDISC_SOLICITICMP
System Log Message: Nonzero ICMP code (value) for router solicitation from source-address to destination-address
Description: The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated router because the ICMP code in the message header was nonzero.
Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON
Cause: The solicitation message was incorrectly generated.
Action: Examine the host that generated the solicitation message.

**RPD_RDISC_SOLICITLEN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Insufficient length (length) for router solicitation from source-address to destination-address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated router, because the indicated message length is too short.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The solicitation message was incorrectly generated.</td>
</tr>
<tr>
<td>Action</td>
<td>Examine the host that generated the solicitation message.</td>
</tr>
</tbody>
</table>

**RPD_RIP_AUTH_ACK**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Ack with invalid authentication from source-address (interface-name)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) ignored an RIP ack because the ack authentication failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_RIP_AUTH_REQUEST**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Request with invalid authentication from source-address (interface-name)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) ignored an RIP request because the request authentication failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_RIP_AUTH_UPDATE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Update with invalid authentication from source-address (interface-name)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) ignored a RIP update because authentication of the update failed.</td>
</tr>
</tbody>
</table>
RPD_RIP_JOIN_BROADCAST

System Log Message: Unable to get broadcast address on interface-name; using the all-ones address

Description: RIP cannot run on the indicated interface because the routing protocol process (rpd) could not obtain the broadcast address on the interface as required for running RIP version 1 or version 2 in compatibility mode.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

RPD_RIP_JOIN_MULTICAST

System Log Message: Unable to join multicast group on interface-name: error-message

Description: RIP cannot run on the indicated interface, because the routing protocol process (rpd) could not join the RIP multicast group as required for RIP version 2 multicast updates.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

RPD_RSVP_BACKUP_DOWN

System Log Message: Backup for protecting LSP lsp-name down, using bypass bypass-lsp-name

Description: When link protection is enabled, a backup label-switched path (LSP) is needed to maintain a protected LSP's control-plane connectivity when topology failures are detected. The backup LSP for the indicated protected LSP failed. The failure can cause traffic loss because the protected LSP tears down when there is no backup. If the reason for the backup failure can be determined, it is reported in the message.

Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON

RPD_RSVP_BYPASS_DOWN

System Log Message: RSVP bypass bypass-lsp-name for protecting interface interface-name went down

Description: The indicated RSVP link-protection bypass, which was protecting the indicated interface, was terminated. If the reason for the termination can be determined, it is reported in the message.
RPD_RSVP_BYPASS_UP

Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON

System Log Message: RSVP bypass bypass-lsp-name for protecting interface interface-name came up
Description: The indicated RSVP link-protection bypass was established to protect the indicated interface.

RPD_RSVP_COS_CFG_WARN

Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY

System Log Message: RSVP: Error while checking the existence of [edit class-of-service]: error-message
Description: RSVP detected an error while parsing configurations under the CoS hierarchy. RSVP CoS configurations will be ignored.

RPD_RSVP_INCORRECT_FLOWSPEC

Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON

System Log Message: Bandwidth in PATH Tspec greater than RESV flowspec for lsp-name
Description: A downstream router sent an incorrect Resv message with a bandwidth in flowspec less than the bandwidth required by TSPEC in the Path message.

RPD_RSVP_LSP_SWITCH

Type: Event: This message reports an event, not an error
Severity: warning
Facility: LOG_DAEMON

System Log Message: RSVP LSP lsp-name switched to backup; using bypass LSP bypass-lsp-name, route lsp-rr
Description: RSVP detected a failure downstream for the indicated label-switched path (LSP) and switched it to a backup using the indicated bypass LSP.
Cause  The downstream interface or router for the LSP went down.

**RPD_RSVP_MAXIMUM_SESSIONS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>RSVP maximum session limit of limit reached</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing protocol process (rpd) could not set up an RSVP session because the indicated limit on the number of sessions was reached.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_RSVP_NBRDOWN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>RSVP neighbor neighbor-address down on interface interface-name, reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The RSVP neighbor to the indicated address was terminated.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The communication path to the neighboring router was disrupted, a protocol error occurred, or the neighboring router was powered down.</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB19075.</td>
</tr>
</tbody>
</table>

**RPD_RSVP_NBRUP**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>RSVP neighbor neighbor-address up on interface interface-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An RSVP neighbor was established to the indicated address.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_RT_CFG_BR_CONFLICT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>static route: route-prefix is also configured as backup-router destination, turn on retain flag to ensure proper functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A conflict occurred between the system backup router configuration and the indicated static route.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
</tbody>
</table>

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Facility  ANY
Action  Add the retain flag to the static route

**RPD_RT_CFG_CREATE_ENTRY_FAILED**

- **System Log Message**: Could not create entry entry
- **Description**: RT failed to create the indicated configuration entry. The configuration request failed.
- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON
- **Action**: Contact your technical support representative.

**RPD_RT_CFG_EIBGP_VTL_CONFLICT**

- **System Log Message**: routing-instance instance: 'multipath vpn-unequal-cost equal-external-internal' and 'vrf-table-label' are not supported together on this platform; 'vrf-table-label' will be ignored
- **Description**: A conflict occurred between the vpn-unequal-cost equal-external-internal configuration and the vrf-table-label configuration in this instance, which is not supported on this platform. vrf-table-label is ignored.
- **Type**: Event: This message reports an event, not an error
- **Severity**: warning
- **Facility**: ANY

**RPD_RT_CFG_INVALID_VALUE**

- **System Log Message**: The object-name configuration object identifier field has an invalid value of value
- **Description**: The configuration request failed because the indicated configuration object contained the indicated invalid value.
- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: LOG_DAEMON
- **Action**: Modify configuration statement to use a valid value.

**RPD_RT_CFG_TABLE_NON_MATCHING**

- **System Log Message**: Routing-table table-name under routing-instance instance associated with session-id session-id does not match the instance
<table>
<thead>
<tr>
<th>Description</th>
<th>The dynamic config request with a specific session id and routing-instance cannot be completed because a routing-table where routes should be added does not match the instance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_RT_DUPLICATE_RD**

<table>
<thead>
<tr>
<th>Description</th>
<th>routing-instance routing-instance has duplicate route-distinguisher route-discriminator as routing-instance existing-routing-instance</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>routing-instance routing-instance has duplicate route-distinguisher route-discriminator as routing-instance existing-routing-instance</td>
</tr>
<tr>
<td>Description</td>
<td>The route-distinguisher assigned to this routing instance has already been assigned to another routing instance (as indicated).</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_RT_DYN_CFG_INST_NOT_FOUND**

<table>
<thead>
<tr>
<th>Description</th>
<th>Routing-instance instance associated with session-id session-id not found</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Routing-instance instance associated with session-id session-id not found</td>
</tr>
<tr>
<td>Description</td>
<td>The dynamic-config request for a specific session id and routing instance cannot be completed because the instance was not found</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_RT_DYN_CFG_TABLE_NOT_FOUND**

<table>
<thead>
<tr>
<th>Description</th>
<th>Routing-table table-name under routing-instance instance associated with session-id session-id not found</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>Routing-table table-name under routing-instance instance associated with session-id session-id not found</td>
</tr>
<tr>
<td>Description</td>
<td>The dynamic config request with a specific session id and routing-instance cannot be completed because a routing table where routes should be added was not found</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_RT_ERROR**

<table>
<thead>
<tr>
<th>Description</th>
<th>rt_event_event-name: fatal state error</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Log Message</td>
<td>rt_event_event-name: fatal state error</td>
</tr>
<tr>
<td>Description</td>
<td>A route in the routing table was found to be in an unrecoverable error state.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>----------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Severity</td>
<td>critical</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB19076.</td>
</tr>
</tbody>
</table>

**RPD_RT_IFUP**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>UP route for interface interface-name index logical-interface-index address/prefix-length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The interface route for the indicated interface and prefix changed state from down to up, becoming available for routing.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_RT_INST_CFG_RESERVED_NAME**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>The routing-instance name instance is reserved and cannot be used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The routing-instances configuration was rejected by rpd because of a reserved routing-instance name was used</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**RPD_RT_INST_IMPORT_PLCY_WARNING**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The policy configured for instance-import in the indicated instance needs modification to become operational.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**RPD_RT_PATH_LIMIT_BELOW**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Number of paths (count) in table table-name is now less than the configured maximum (limit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The number of paths in the indicated routing table previously equaled or exceeded the indicated limit, but went down to the indicated number, which is below the limit.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
</tbody>
</table>
Facility LOG_DAEMON

**RPD_RT_PATH_LIMIT_REACHED**

**System Log Message**  Number of paths (count) in table table-name status configured maximum (limit)

**Description**  The indicated total number of paths in the indicated routing table equaled or exceeded the indicated configured limit. Attempts to add some types of path to the table fail while this condition holds, but the path count can exceed the limit if paths are forcibly added (for example, for static routes). This message first appears in the log when the limit is reached and repeats periodically until the number of paths goes below the limit.

**Type**  Error: An error occurred

**Severity**  error

**Facility**  LOG_DAEMON

**RPD_RT_PATH_LIMIT_WARNING**

**System Log Message**  Number of paths (count) in table table-name reached warning threshold (threshold percent of configured maximum limit)

**Description**  The indicated total number of paths in the indicated routing table reached the threshold for a warning. The threshold is the indicated percentage of the indicated configured limit on the number of paths.

**Type**  Event: This message reports an event, not an error

**Severity**  warning

**Facility**  LOG_DAEMON

**RPD_RT_PREFIX_LIMIT_BELOW**

**System Log Message**  Number of prefixes (prefix-count) in table table-name is now less than the configured maximum (limit)

**Description**  The number of prefixes in the indicated routing table previously equaled or exceeded the indicated limit, but went down to the indicated number, which is below the limit.

**Type**  Event: This message reports an event, not an error

**Severity**  warning

**Facility**  LOG_DAEMON

**RPD_RT_PREFIX_LIMIT_REACHED**

**System Log Message**  Number of prefixes (prefix-count) in table table-name status configured maximum (limit)

**Description**  The indicated total number of prefixes in the indicated routing table equaled or exceeded the indicated configured limit. Attempts to add some types of prefix to the table fail while this condition holds, but the prefix count can exceed the limit if prefixes are forcibly added (for example, for static routes). This message first appears in the log when the limit is reached and repeats periodically until the number of prefixes goes below the limit.
RPD_RT_PREFIX_LIMIT_WARNING

System Log Message: Number of prefixes (prefix-count) in table table-name reached warning threshold (threshold percent of configured maximum limit)

Description: The indicated total number of prefixes in the indicated routing table reached the threshold for a warning. The threshold is the indicated percentage of the indicated configured limit on the number of prefixes.

RPD_RT_SHOWMODE

System Log Message: invalid display mode (mode)

Description: The indicated display mode was specified in a 'show route' command and is unsupported.

RPD_RT_TAG_ID_ALLOC_FAILED

System Log Message: Unable to allocate object-name for routing instance instance

Description: The routing protocol process (rpd) could not allocate either labels or subunits (as indicated) for the indicated routing instance, because the result number of objects would have exceeded the limit.

RPD_SCHED_CALLBACK_LONGRUNTIME

System Log Message: function-name: excessive runtime time during action of module

Description: The indicated submodule of the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.
Facility: LOG_DAEMON
Cause: The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

**RPD_SCHED_CUMULATIVE_LONGRUNTIME**

**System Log Message**: function-name: excessive runtime (total of time in count callbacks) after action of module

**Description**: Several submodules of the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.

**Type**: Event: This message reports an event, not an error

**Severity**: warning

**Facility**: LOG_DAEMON

**Cause**: The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

**RPD_SCHED_MODULE_LONGRUNTIME**

**System Log Message**: function-name: excessive runtime time during action of module

**Description**: Several submodules of the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.

**Type**: Event: This message reports an event, not an error

**Severity**: warning

**Facility**: LOG_DAEMON

**Cause**: The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

**RPD_SCHED_TASK_LONGRUNTIME**

**System Log Message**: function-name ran for total-time (user-time user, system-time system) doing action

**Description**: A task callback within the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.

**Type**: Event: This message reports an event, not an error

**Severity**: warning

**Facility**: LOG_DAEMON

**Cause**: The duration was noted because task accounting is enabled. The function might be implemented inefficiently.
### RPD_SIGNAL_TERMINATE

**System Log Message**  
*signal-name* termination signal received

**Description**  
In response to the indicated termination request, the routing protocol process (rpd) terminated adjacencies with neighbors and shut down.

**Type**  
Event: This message reports an event, not an error

**Severity**  
notice

**Facility**  
LOG_DAEMON

### RPD_SNMP_CONN_PROG

**System Log Message**  
*function-name*: *error-message*

**Description**  
The indicated error occurred while the routing protocol process (rpd) was connecting to the Simple Network Management Protocol (SNMP) master agent.

**Type**  
Error: An error occurred

**Severity**  
info

**Facility**  
LOG_DAEMON

### RPD_SNMP_CONN_QUIT

**System Log Message**  
*function-name*: unable to connect to SNMP agent (*pathname*): *error-message*

**Description**  
The routing protocol process (rpd) could not connect to the indicated Simple Network Management Protocol (SNMP) master agent.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### RPD_SNMP_CONN_RETRY

**System Log Message**  
*function-name*: reattempting connection to SNMP agent (*pathname*): *error-message*

**Description**  
The routing protocol process (rpd) tried again to connect to the indicated Simple Network Management Protocol (SNMP) master agent after a connection attempt failed.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### RPD_SNMP_INVALID_SOCKET

**System Log Message**  
*function-name*: socket *file-descriptor* is invalid

**Description**  
The routing protocol process (rpd) could not send a message to a Simple Network Management Protocol (SNMP) master agent because the indicated socket is invalid.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

**RPD_SNMP_SOCKOPT_BLOCK**

System Log Message: *function-name*: unable to set nonblocking option

Description: The routing protocol process (rpd) could not set a socket to nonblocking mode after connecting to the Simple Network Management Protocol (SNMP) master agent.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

**RPD_SNMP_SOCKOPT_RECVBUF**

System Log Message: *function-name*: unable to set recvbuf option

Description: The routing protocol process (rpd) could not set the size of the kernel receive buffer, which allows it to accept the largest possible packet from the Simple Network Management Protocol (SNMP) master agent.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

**RPD_SNMP_SOCKOPT_SENDBUF**

System Log Message: *function-name*: unable to set sendbf option

Description: The routing protocol process (rpd) could not set the size of the kernel send buffer, which allows it to send the largest possible packet to the Simple Network Management Protocol (SNMP) master agent.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

**RPD_START**

System Log Message: Start executable-name[pid] version version built date

Description: The routing protocol process (rpd) started.

Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_DAEMON
RPD_SYSTEM
System Log Message reason: error-message
Description A system call made by the routing protocol process (rpd) failed.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Cause It is possible that the kernel lacked the resources to fulfill the request. The rpd process will recover.

RPD_TASK_BEGIN
System Log Message Commencing routing updates, version rpd-version, built date by builder
Description The routing protocol process (rpd) started.
Type Event: This message reports an event, not an error
Severity notice
Facility LOG_DAEMON

RPD_TASK_CHILDKILLED
System Log Message task-name terminated by SIGsignal-name core-dump-status
Description While a child process of the routing protocol process (rpd) was performing the indicated operation, it terminated in response to the indicated signal.
Type Event: This message reports an event, not an error
Severity error
Facility LOG_DAEMON

RPD_TASK_CHILDSTOPPED
System Log Message task-name stopped by SIGsignal-name
Description While a child process of the routing protocol process (rpd) was performing the indicated operation, it stopped in response to the indicated signal.
Type Event: This message reports an event, not an error
Severity error
Facility LOG_DAEMON

RPD_TASK_DYN_REINIT
System Log Message Dynamic reconfiguration in process
<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPD_TASK_FORK</td>
<td>Unable to fork task-name: error-message</td>
<td>Event: This message reports an event, not an error</td>
<td>info</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>RPD_TASK_GETWD</td>
<td>getwd: error-message</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>RPD_TASK_MASTERSHIP</td>
<td>Assuming mastership</td>
<td>Event: This message reports an event, not an error</td>
<td>info</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>RPD_TASK_NOREINIT</td>
<td>Reinitialization not possible</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

Description: The routing protocol process (rpd) reinitialized.

Type: Event: This message reports an event, not an error

Severity: info

Facility: LOG_DAEMON

Description: The routing protocol process failed to create the indicated child process.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Action: For more information, see KB19077.

Description: The getwd() system call made by the routing protocol process (rpd) failed.

Type: Error: An error occurred

Severity: error

Facility: LOG_DAEMON

Cause: It is possible that the kernel lacked the resources to fulfill the request. The rpd process will recover.

Description: The routing protocol process (rpd) became active when the Routing Engine on which it was running assumed mastership.

Type: Event: This message reports an event, not an error

Severity: info

Facility: LOG_DAEMON

Description: The routing protocol process (rpd) failed to reinitialize as requested, because it was running in a state that did not allow reconfiguration.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

RPD_TASK_PIDCLOSED
System Log Message: Unable to close and remove filename: error-message
Description: The routing protocol process (rpd) tried to close and remove the file that records its process ID (PID), which serves to prevent multiple instances of rpd from running simultaneously. The attempt failed.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

RPD_TASK_PIDFLOCK
System Log Message: flock(filename, LOCK_EX): error-message
Description: The routing protocol process (rpd) issued the flock() system call on the file that records its process ID (PID), which serves to prevent multiple instances of rpd from running simultaneously. The system call failed.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

RPD_TASK_PIDWRITE
System Log Message: Unable to write to fd filename: error-message
Description: The routing protocol process (rpd) tried to write to the file that records its process ID (PID), which serves to prevent multiple instances of rpd from running simultaneously. The attempt failed.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

RPD_TASK_REINIT
System Log Message: Reinitializing
Description: The routing protocol process (rpd) reinitialized.

Type: Event: This message reports an event, not an error
Severity: info
<table>
<thead>
<tr>
<th>Facility</th>
<th>LOG_DAEMON</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RPD_TASK_SIGNALIGNORE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td><code>sigaction(SIGsignal-name): error-message</code></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The routing protocol process (rpd) informed the kernel that it wished to ignore the indicated signal, but the kernel failed to process the request.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>RPD_TRACE_FAILED</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to write to trace file <code>filename</code></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The routing protocol process (rpd) could not write to the indicated trace file, and stopped attempting to do so. The next commit of the configuration database will reenable tracing.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td><strong>RPD_VPLS_INTF_NOT_IN_SITE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Some interfaces of instance <code>instance</code> are not configured under its single site</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Some interfaces of the indicated vpls instance have not been configured under the sole site of the instance.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Configure all interfaces of the instance under its single site.</td>
</tr>
</tbody>
</table>
This chapter describes messages with the RT prefix. They are generated on routers running Junos OS by the Packet Forwarding Engine as it processes packets for security control in real time.

**RT_FLOW_SESSION_CLOSE**

**System Log Message**

```
session closed reason: source-address/source-port->destination-address/destination-port
service-name
nat-source-address/nat-source-port->nat-destination-address/nat-destination-port
src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name
destination-zone-name session-id-32 packets-from-client(bytes-from-client)
packets-from-server(bytes-from-server) elapsed-time application nested-application
username(roles) packet-incoming-interface
```

**Description**
A security session was closed.

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
LOG_USER

**RT_FLOW_SESSION_CLOSE_LS**

**System Log Message**

```
Lsys logical-system-name: session closed reason:
source-address/source-port->destination-address/destination-port service-name
nat-source-address/nat-source-port->nat-destination-address/nat-destination-port
src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name
destination-zone-name session-id-32 packets-from-client(bytes-from-client)
packets-from-server(bytes-from-server) elapsed-time application nested-application
username(roles) packet-incoming-interface
```

**Description**
A security session was closed.

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
LOG_USER
**RT_FLOW_SESSION_CREATE**

**System Log Message**

session created source-address/source-port->destination-address/destination-port service-name
nat-source-address/nat-source-port->nat-destination-address/nat-destination-port src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name destination-zone-name session-id-32 username(roles) packet-incoming-interface

**Description**

A security session was created.

**Type**

Event: This message reports an event, not an error

**Severity**

info

**Facility**

LOG_USER

**RT_FLOW_SESSION_CREATE_LS**

**System Log Message**

Lsys logical-system-name: session created source-address/source-port->destination-address/destination-port service-name
nat-source-address/nat-source-port->nat-destination-address/nat-destination-port src-nat-rule-name dst-nat-rule-name protocol-id policy-name source-zone-name destination-zone-name session-id-32 username(roles) packet-incoming-interface

**Description**

A security session was created.

**Type**

Event: This message reports an event, not an error

**Severity**

info

**Facility**

LOG_USER

**RT_FLOW_SESSION_DENY**

**System Log Message**

session denied source-address/source-port->destination-address/destination-port service-name protocol-id(protocol-id) policy-name source-zone-name destination-zone-name application nested-application username(roles) packet-incoming-interface

**Description**

A security session was not permitted by policy.

**Type**

Event: This message reports an event, not an error

**Severity**

info

**Facility**

LOG_USER

**RT_FLOW_SESSION_DENY_LS**

**System Log Message**

Lsys logical-system-name: session denied source-address/source-port->destination-address/destination-port service-name protocol-id(protocol-id) policy-name source-zone-name destination-zone-name application nested-application username(roles) packet-incoming-interface

**Description**

A security session was not permitted by policy.
<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_USER</td>
</tr>
</tbody>
</table>

**RT_H323_NAT_COOKIE_NOT_FOUND**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>object-name cannot find cookie from session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Failed to find the H.323 NAT cookie.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_IPSEC_AUTH_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>IPSec error, error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>HMAC verification failed for received IPSec packet \ Possibly due to a mis-match in authentication keys.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_IPSEC_BAD_SPI**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>IPSec tunnel on int interface-name with tunnel ID 0xtunnel-id received a packet with a bad SPI. source-address-&gt;destination-address/length, type, SPI 0xindex, SEQ 0xsequence-number.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Received IPSec packet with bad SPI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_IPSEC_DECRYPT_BAD_PAD**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Decryption failure: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Decryption error due to invalid padding content \ during ESP padding check.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>
**RT_IPSEC_PV_DECRIPTION**

System Log Message  
Decryption failure: *error-message*

Description  
Threshold value set has been reached due to several decryption failures that have occurred.

Type  
Event: This message reports an event, not an error

Severity  
error

Facility  
LOG_PFE

**RT_IPSEC_PV_ENCRYPTION**

System Log Message  
Encryption failure: *error-message*

Description  
Threshold value set has been reached due to several encryption failures that have occurred.

Type  
Event: This message reports an event, not an error

Severity  
error

Facility  
LOG_PFE

**RT_IPSEC_PV_REPLAY**

System Log Message  
Replay packet detected on IPSec tunnel on *interface-name* with tunnel ID 0x*tunnel-id*!
From *source-address* to *destination-address/length*, type, SPI 0x*index*, SEQ 0x*sequence-number*.

Description  
Threshold value set has been reached due to several replay attacks that have occurred.

Type  
Event: This message reports an event, not an error

Severity  
error

Facility  
LOG_PFE

**RT_IPSEC_PV_SYM_KEYGEN**

System Log Message  
Symmetric key generation failure: *error-message*

Description  
A symmetric key has failed to generate.

Type  
Error: An error occurred

Severity  
error

Facility  
LOG_PFE

**RT_IPSEC_REPLAY**

System Log Message  
Replay packet detected on IPSec tunnel on *interface-name* with tunnel ID 0x*tunnel-id*!
From *source-address* to *destination-address/length*, type, SPI 0x*index*, SEQ 0x*sequence-number*.
<table>
<thead>
<tr>
<th>Description</th>
<th>Received IPSec replay packet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_MGCP_CALL_LIMIT_EXCEED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Exceed maximum call max active call number maximum-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The maximum MGCP active call limit has been exceeded.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_MGCP_DECODE_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to decode MGCP packet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Failed to decode MGCP message.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_MGCP_MEM_ALLOC_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to allocate memory for object-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Failed to allocate memory for the MGCP objects.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_MGCP_REM_NAT_VEC_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to remove MGCP object-name from flow module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Failed to remove the MGCP ALG vector from the flow module.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_MGCP_RM_CLIENTID_FAIL**

| System Log Message | MGCP ALG Resource Manager client registration failed |

Copyright © 2011, Juniper Networks, Inc.
<table>
<thead>
<tr>
<th><strong>Description</strong></th>
<th>Failed to obtain the MGCP Resource Manager client identifier.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_MGCP_UNREG_BY_RM**

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>MGCP ALG client has been unregistered by Resource Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The Resource Manager has unregistered the MGCP Resource Manager client.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_SCCP_CALL_LIMIT_EXCEED**

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Failed to create SCCP ALG call, call limit <code>maximum-value</code> exceeded</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The maximum SCCP call limit has been exceeded.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_SCCP_CALL_RATE_EXCEED**

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>The SCCP active call rate limit <code>maximum-value</code> has been exceeded</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The SCCP active call rate limit has been exceeded.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_SCCP_DECODE_FAIL**

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Failed to decode SCCP packet from <code>source-address</code> -&gt; <code>destination-address</code></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Failed to decode SCCP packet.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_SCCP_NAT_COOKIE_NOT_FOUND**

<table>
<thead>
<tr>
<th><strong>System Log Message</strong></th>
<th>Failed to find SCCP ALG cookie from session</th>
</tr>
</thead>
</table>

---

Copyright © 2011, Juniper Networks, Inc.
<table>
<thead>
<tr>
<th>Description</th>
<th>Failed to find SCCP NAT cookie.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_SCCP_REM_NAT_VEC_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to remove SCCP ALG vector from flow module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Failed to remove the SCCP ALG vector from the flow module.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_SCCP_UNREG_RM_FAIL**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to unregister SCCP client from Resource Manager when the ALG was unregistered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Failed to unregister SCCP client from Resource Manager when the ALG was unregistered.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_SCREEN_ICMP**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>attack-name: source-address, destination: destination-address, zone name: source-zone-name, interface name: interface-name, action: action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>ICMP attack category</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RT_SCREEN_ICMP_LS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>[lsys: logical-system-name] attack-name: source-address, destination: destination-address, zone name: source-zone-name, interface name: interface-name, action: action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>ICMP attack category</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>
### RT_SCREEN_IP

**System Log Message**

`attack-name source: source-address, destination: destination-address, protocol-id: protocol-id, zone name: source-zone-name, interface name: interface-name, action: action`

**Description**  
IP attack category

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_PFE

### RT_SCREEN_IP_LS

**System Log Message**

`[lsys: logical-system-name] attack-name source: source-address, destination: destination-address, protocol-id: protocol-id, zone name: source-zone-name, interface name: interface-name, action: action`

**Description**  
IP attack category

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_PFE

### RT_SCREEN_SESSION_LIMIT

**System Log Message**

`attack-name message: ip-address, zone name: source-zone-name, interface name: interface-name, action: action`

**Description**  
Session limit category

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_PFE

### RT_SCREEN_SESSION_LIMIT_LS

**System Log Message**

`[lsys: logical-system-name] attack-name message: ip-address, zone name: source-zone-name, interface name: interface-name, action: action`

**Description**  
Session limit category

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_PFE
RT_SCREEN_TCP

System Log Message  
- attack-name source: source-address:source-port, destination: 
  destination-address:destination-port, zone name: source-zone-name, interface name: 
  interface-name, action: action

Description  
TCP attack category

Type  
Event: This message reports an event, not an error

Severity  
error

Facility  
LOG_PFE

Action  
For more information, see KB19078.

RT.Screen_TCP_DST_IP

System Log Message  
- attack-name destination: destination-address, zone name: source-zone-name, interface name: 
  interface-name, action: action

Description  
TCP destination IP attack category

Type  
Event: This message reports an event, not an error

Severity  
error

Facility  
LOG_PFE

RT.Screen_TCP_DST_IP_LS

System Log Message  
[lsys: logical-system-name] attack-name destination: destination-address, zone name: 
  source-zone-name, interface name: interface-name, action: action

Description  
TCP destination IP attack category

Type  
Event: This message reports an event, not an error

Severity  
error

Facility  
LOG_PFE

RT.Screen_TCP_LS

System Log Message  
[lsys: logical-system-name] attack-name source: source-address:source-port, destination: 
  destination-address:destination-port, zone name: source-zone-name, interface name: 
  interface-name, action: action

Description  
TCP attack category

Type  
Event: This message reports an event, not an error

Severity  
error

Facility  
LOG_PFE
**RT_SCREEN_TCP_SRC_IP**

**System Log Message**  
`attack-name source: source-address, zone name: source-zone-name, interface name: interface-name, action: action`

**Description**  
TCP source IP attack category

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_PFE

---

**RT_SCREEN_TCP_SRC_IP_LS**

**System Log Message**  
`[lsys: logical-system-name] attack-name source: source-address, zone name: source-zone-name, interface name: interface-name, action: action`

**Description**  
TCP source IP attack category

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_PFE

---

**RT_SCREEN_UDP**

**System Log Message**  
`attack-name source: source-address:source-port, destination: destination-address:destination-port, zone name: source-zone-name, interface name: interface-name, action: action`

**Description**  
UDP attack category

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_PFE

**Action**  
For more information, see [KB19079](#).

---

**RT_SCREEN_UDP_LS**

**System Log Message**  
`[lsys: logical-system-name] attack-name source: source-address:source-port, destination: destination-address:destination-port, zone name: source-zone-name, interface name: interface-name, action: action`

**Description**  
UDP attack category

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_PFE
### RT_SCTP_LOG_INFO

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>***SCTP configuration: message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>SCTP log info.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

### RT_SCTP_PKT_INFO

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>***SCTP (type message-type source-address/source-port -&gt; destination-address/destination-port) message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>SCTP packet info.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>
This chapter describes messages with the RTLOG prefix. They are generated on routers running Junos OS by the system log module of the Packet Forwarding Engine as it processes packets for security control in real time.

**RTLOG_JLOG_TEST**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>JLOG test OK, jlog_handle=current-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Test JSF Log plugin registration.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RTLOG_UTP_TCP_SYN_FLOOD**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>source: source-address-source-port, destination: destination-address-destination-port, zone name: filter-name, interface name: interface-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Security LOG UTP fake TCP SYN flood attack.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RTLOG_UTP_TCP_SYN_FLOOD_LS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>lsys: logical-system-name source: source-address-source-port, destination: destination-address-destination-port, zone name: filter-name, interface name: interface-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Security LOG UTP fake TCP SYN flood attack with Lsys name.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>
CHAPTER 95

RTLOGD System Log Messages

This chapter describes messages with the RTLOGD prefix. They are generated by the system log utility for real-time processing of packets for security control (rtlogd) on routers running Junos OS.

RTLOGD_LOG_BIND_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to bind socket to PFE: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Junos JSR log daemon receives JSR log from a JSR log forwarder. The JSR log daemon failed to connect to the forwarder.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB19083.</td>
</tr>
</tbody>
</table>

RTLOGD_LOG_READ_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to read from PFE: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Junos JSR log daemon relays JSR logs from the dataplane to the system event daemon for logging. The JSR log daemon fails to read JSR logs for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB19084.</td>
</tr>
</tbody>
</table>
This chapter describes messages with the RTPERF prefix. They are related to performance logs for the data plane.

**RTPERF_CPU_THRESHOLD_EXCEEDED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>FPC fpc-slot PIC pic-slot CPU utilization exceeds threshold, current value=current-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>PFE cpu threshold exceeded</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>critical</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>

**RTPERF_CPU_USAGE_OK**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>FPC fpc-slot PIC pic-slot CPU utilization returns to normal, current value=current-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>PFE cpu usage okay</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_PFE</td>
</tr>
</tbody>
</table>
This chapter describes messages with the SAVAL prefix. They are generated by the MAC SA Validate system (jsavald) process.

**SAVAL_RTSOCK_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Error with rtsock: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The MAC SA Validate system process (jsavald) experienced the indicated error with a routing socket.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>
CHAPTER 98

SDXD System Log Messages

This chapter describes messages with the **SDX** prefix. They are generated by the Session and Resource Control (SRC) process (sdxd), which provides a user interface for deploying Internet services.

### SDXD_BEEP_FIN_FAIL

**System Log Message**

Graceful close of BEEP session failed

**Description**

The Session and Resource Control (SRC) process (sdxd) could not send a request to the SRC server to close a Blocks Extensible Exchange Protocol (BEEP) session. It sends this request when the session becomes unconfigured.

**Type**

Event: This message reports an event, not an error

**Severity**

notice

**Facility**

LOG_DAEMON

**Cause**

The usual cause is that the session was already partially or completely closed.

**Action**

None required. The sdxd process recovers automatically in this situation.

### SDXD_BEEP_INIT_FAIL

**System Log Message**

BEEP initialization failed

**Description**

The Session and Resource Control (SRC) process (sdxd) could not initialize the Blocks Extensible Exchange Protocol (BEEP), which it uses to connect to an SRC server.

**Type**

Error: An error occurred

**Severity**

error

**Facility**

LOG_DAEMON

**Cause**

An internal software failure might have occurred.

### SDXD_CHANNEL_START_FAIL

**System Log Message**

Notification channel could not be started (error-code): message
Description: The indicated Blocks Extensible Exchange Protocol (BEEP) channel could not be started for the indicated reason.

SDXD_CONNECT_FAIL
System Log Message: Connection to SDX server failed: message
Description: The Session and Resource Control (SRC) process (sdxd) could not connect to an SRC server for the indicated reason.

SDXD_DAEMONIZE_FAIL
System Log Message: Aborting, unable to run in the background as a daemon: error-message
Description: The Service Deployment System process (sdxd) could not create a version of itself to run in the background as a daemon.

SDXD_EVLIB_FAILURE
System Log Message: function-name: error-message
Description: The Service Deployment System process (sdxd) called the indicated function in the event library. The function failed with the indicated error.
**SDXD_KEEPALIVES_MISSED**

**System Log Message**
No server keepalives received for three intervals

**Description**
The Session and Resource Control (SRC) process (sdxd) and SRC server exchange keepalive messages at regular intervals. The process did not receive a keepalive from the server for three consecutive keepalive intervals. In this case, it closes the session and tries to connect to another SRC server.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_DAEMON

**SDXD_KEEPALIVE_SEND_FAIL**

**System Log Message**
Unable to send keepalive

**Description**
The Session and Resource Control (SRC) process (sdxd) could not send a keepalive message to the SRC server, which it does periodically to maintain its connection to the server.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
LOG_DAEMON

**Cause**
There might have been a network problem.

**SDXD_MGMT_SOCKET_IO**

**System Log Message**
management daemon I/O failure: *reason*

**Description**
The Service Deployment System process (sdxd) could not read from or write to the management socket that it uses to communicate with the JUNOS management process (mgd).

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Cause**
The mgd process might have exited abnormally.

**SDXD_OUT_OF_MEMORY**

**System Log Message**
Insufficient memory during *operation*

**Description**
The Service Deployment System (sdxd) attempted to allocate memory for an internal object during the indicated operation. The attempt failed.

**Type**
Error: An error occurred
Severity: error  
Facility: LOG_DAEMON

**SDXD_PID_FILE_UPDATE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unable to update process PID file: error-message</td>
<td>The Service Deployment System process (sdxd) attempted to update the file that records its process ID (PID), which serves to prevent multiple instances of sdxd from running simultaneously. The attempt failed.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**SDXD_SOCKET_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>operation failed: error-message</td>
<td>The Service Deployment System process (sdxd) uses Transmission Control Protocol (TCP) sockets for communication with the SRC server. The indicated operation, which might be for socket creation or binding to a local address, failed with the indicated error.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

Cause: An internal software failure occurred.

Action: Contact your technical support representative.
### SFW System Log Messages

This chapter describes messages with the **SFW** prefix.

#### SFW_LOG_FUNCTION

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Function: service-set</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Function:</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
</tbody>
</table>
CHAPTER 100

SMTPD System Log Messages

This chapter describes messages with the SMTPD prefix. They are generated by smtp client process (smtpd).

SMTPD_DROP_MAIL_PAYLOAD

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dropped mail to user: error-message. Send failed or queued reached max</td>
<td>The smtp client process (smtpd) attempted to send the mail payload to the configured gateway mail server failed due to one of the following reasons: network connection failure, error in the payload, or sent failed after retries. The mail is dropped.</td>
<td>Event: This message reports an event, not an error</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

SMTPD_NO_CONFIGURED_SERVER

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unable to send mail to error-message. Configure server with relay</td>
<td>The smtp client process (smtpd) is unable to send mail payload. A gateway server must be configured. This server must allow relaying.</td>
<td>Event: This message reports an event, not an error</td>
<td>error</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
CHAPTER 101

SNMP System Log Messages

This chapter describes messages with the SNMP prefix. They are generated by two kinds of processes:

- Processes that perform SNMP operations, such as the MIB II process (mib2d) and the SNMP agent process (snmpd). Those processes also generate messages with prefixes that match their names, as described in "MIB2D System Log Messages" on page 509 and "SNMPD System Log Messages" on page 677.

- Processes that are instrumented to generate system log messages when they send SNMP traps. The SNMP remote operations process (rmopd) is one such process. It also generates messages with the RMOPD_prefix, which are described in "RMOPD System Log Messages" on page 565.

SNMP_GET_ERROR1

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name operation failed for object-name: index1 index1 (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An SNMP Get or GetNext request failed for the indicated object, which has the indicated index.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

SNMP_GET_ERROR2

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name operation failed for object-name: index1 index1 index2 index2 (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An SNMP Get or GetNext request failed for the indicated object, which has the indicated indexes.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
Severity  error
Facility  LOG_DAEMON
Cause  An internal software failure occurred.
Action  Contact your technical support representative.

SNMP_GET_ERROR3
System Log Message  function-name operation failed for object-name: index1 index1 index2 index2 index3 index3 (error-message)
Description  An SNMP Get or GetNext request failed for the indicated object, which has the indicated indexes.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Cause  An internal software failure occurred.
Action  Contact your technical support representative.

SNMP_GET_ERROR4
System Log Message  function-name operation failed for object-name: index1 index1 index2 index2 index3 index3 index4 index4 (error-message)
Description  An SNMP Get or GetNext request failed for the indicated object, which has the indicated indexes.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Cause  An internal software failure occurred.
Action  Contact your technical support representative.

SNMP_RTSLIB_FAILURE
System Log Message  function-name: reason: error-message
Description  A call to the indicated function in the routing socket library failed with the indicated error.
Type  Error: An error occurred
Severity  emergency
Facility | LOG_DAEMON  
---|---  
Cause | An internal software failure occurred.  
Action | Contact your technical support representative. For more information, see KB19107.  

### SNMP_TRAP_LINK_DOWN

| System Log Message | ifIndex snmp-interface-index, ifAdminStatus admin-status, ifOperStatus operational-status, ifName interface-name  
|---|---  
| Description | The SNMP agent process (snmpd) generated a linkDown trap because the indicated interface changed state to 'down'.  
| Type | Event: This message reports an event, not an error  
| Severity | warning  
| Facility | LOG_DAEMON  

### SNMP_TRAP_LINK_UP

| System Log Message | ifIndex snmp-interface-index, ifAdminStatus admin-status, ifOperStatus operational-status, ifName interface-name  
|---|---  
| Description | The SNMP agent process (snmpd) generated a linkUp trap because the indicated interface changed state to 'up'.  
| Type | Event: This message reports an event, not an error  
| Severity | info  
| Facility | LOG_DAEMON  

### SNMP_TRAP_TRACERT_PATH_CHANGE

| System Log Message | traceRouteCtlOwnerIndex = test-owner, traceRouteCtlTestName = test-name  
|---|---  
| Description | The Simple Network Management Protocol (SNMP) remote operations process (rmopd) generated a traceRoutePathChange trap because two probes with the same time-to-live (TTL) value returned with different IP addresses.  
| Type | Event: This message reports an event, not an error  
| Severity | info  
| Facility | LOG_DAEMON  

### SNMP_TRAP_TRACERT_TEST_COMPLETED

| System Log Message | traceRouteCtlOwnerIndex = test-owner, traceRouteCtlTestName = test-name  
|---|---  
| Description | The Simple Network Management Protocol (SNMP) remote operations process (rmopd) generated a tracerouteTestCompleted trap because the test completed and the full path to the target was determined.  
| Type | Event: This message reports an event, not an error  
| Severity | info  
| Facility | LOG_DAEMON  

---

Chapter 101: SNMP System Log Messages  

Copyright © 2011, Juniper Networks, Inc.
<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**SNMP_TRAP_TRACERT_TEST_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>traceRouteCtlOwnerIndex = test-owner, traceRouteCtlTestName = test-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Simple Network Management Protocol (SNMP) remote operations process (rmopd) generated a tracerouteTestFailed trap because the test completed and the full path to the target was not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the SNMP prefix. They are generated by the Simple Network Management Protocol (SNMP) agent process (snmpd), which responds to SNMP requests. As necessary, it passes the requests to subagent processes running on its machine and forwards the traps they generate to the SNMP manager.

**SNMPD_AUTH_FAILURE**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
<td>function-name: message from source-address to destination-address (index1)</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The indicated function failed because the authorization check failed for the interface, Simple Network Management Protocol (SNMP) community, or user making the request.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>notice</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**SNMPD_AUTH_PRIVILEGES_EXCEEDED**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
<td>function-name: source-address: request exceeded community privileges</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The indicated function failed because the Simple Network Management Protocol (SNMP) community making the access request did not have the required privileges.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>notice</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>
SNMPD_AUTH_RESTRICTED_ADDRESS

System Log Message: function-name: request from address source-address not allowed

Description: The indicated function failed because access requests from the indicated source address are not allowed.

Type: Error: An error occurred
Severity: notice
Facility: ANY
Cause: An internal software failure occurred.
Action: Contact your technical support representative.

SNMPD_AUTH_WRONG_PDU_TYPE

System Log Message: function-name: source-address: unauthorized SNMP PDU type: pdu-type

Description: The indicated function failed because the indicated type of protocol data unit (PDU) is not supported.

Type: Error: An error occurred
Severity: notice
Facility: ANY
Cause: An internal software failure occurred.
Action: Contact your technical support representative.

SNMPD_BIND_INFO

System Log Message: Source address for trap socket was set to bind-address

Description: The source address for the indicated type of socket used by the Simple Network Management Protocol (SNMP) agent process (snmpd) was set to the indicated address.

Type: Event: This message reports an event, not an error
Severity: info
Facility: LOG_DAEMON
Cause: An administrator changed the JUNOS configuration for the process or for an interface.
Cause: The online/offline state changed for a Physical Interface Card (PIC). This can also cause the address to become newly available or unavailable.
### SNMPD_CONFIG_ERROR

**System Log Message:** Configuration database has errors  
**Description:** The Simple Network Management Protocol (SNMP) agent process (snmpd) detected an error in the SNMP configuration database.  
**Type:** Error: An error occurred  
**Severity:** error  
**Facility:** LOG_DAEMON

### SNMPD_CONTEXT_ERROR

**System Log Message:** `function-name: error in operation context context-name`  
**Description:** The indicated operation (addition or deletion) failed during configuration of the indicated Simple Network Management Protocol (SNMP) context.  
**Type:** Error: An error occurred  
**Severity:** error  
**Facility:** LOG_DAEMON  
**Cause:** An internal software failure occurred.  
**Action:** Contact your technical support representative.

### SNMPD_FILE_FAILURE

**System Log Message:** `function-name: fopen filename: error-message`  
**Description:** The Simple Network Management Protocol (SNMP) agent process (snmpd) could not access the indicated file.  
**Type:** Error: An error occurred  
**Severity:** emergency  
**Facility:** LOG_DAEMON  
**Cause:** An internal software failure occurred.  
**Action:** Contact your technical support representative. For more information, see [KB19108](#).

### SNMPD_GROUP_ERROR

**System Log Message:** `function-name: error in operation group: 'group-id' user 'username' model 'model'`  
**Description:** The indicated operation (creation, installation, or deletion) failed during configuration of the indicated group.
Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: An internal software failure occurred.
Action: Contact your technical support representative.

**SNMPD_HEALTH_MON_THRESH_CROSS**

System Log Message: syslog-subtagdelimiterevent-name
Description: A system parameter monitored by the self-monitoring feature crossed a rising or falling threshold.

Type: Event: This message reports an event, not an error
Severity: error
Facility: LOG_DAEMON
Cause: System resources were being consumed.

**SNMPD_INIT_FAILED**

System Log Message: snmpd initialization failure: error-message
Description: Initialization of the Simple Network Management Protocol (SNMP) agent process (snmpd) failed.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: An internal software failure occurred.
Action: Contact your technical support representative.

**SNMPD_LIBJUNIPER_FAILURE**

System Log Message: function-name: system_default_inaddr: error-message
Description: The indicated function from the Juniper Networks Simple Network Management Protocol (SNMP) library failed and returned the indicated error to the SNMP agent process (snmpd).

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: An internal software failure occurred.

Action: Contact your technical support representative.

### SNMPD_RADIX_FAILURE

**System Log Message**  
`function-name: radix_add failed: error-message`

**Description**  
The Simple Network Management Protocol (SNMP) agent process (snmpd) uses radix trees to store valid client prefixes, which are used to determine authorization for requests from users and communities. It could not create a new entry in a radix tree.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
An internal software failure occurred.

**Action**  
Contact your technical support representative.

### SNMPD_RECEIVE_FAILURE

**System Log Message**  
`function-name: receive message failure: error-message`

**Description**  
The indicated error occurred while the Simple Network Management Protocol (SNMP) agent process (snmpd) was receiving either a protocol data unit (PDU) from the User Datagram Protocol (UDP) or a message from a subagent.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
An internal software failure occurred.

**Action**  
Contact your technical support representative.

### SNMPD_RMONFILE_FAILURE

**System Log Message**  
`function-name: operation: operation filename: error-message`

**Description**  
The indicated operation failed on the indicated remote monitoring (RMON) data file.

**Type**  
Error: An error occurred

**Severity**  
critical

**Facility**  
LOG_DAEMON

**Cause**  
An internal software failure occurred.
Action: Contact your technical support representative. For more information, see KB19109.

**SNMPD_RMON_COOKIE**

**System Log Message**: function-name: Null cookie

**Description**: An invalid data pointer was returned when the remote monitoring (RMON) asynchronous completion handler performed an RMON alarm operation.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

**Cause**: An internal software failure occurred.

**Action**: Contact your technical support representative.

**SNMPD_RMON_EVENTLOG**

**System Log Message**: syslog-subtagdelimitermessage

**Description**: The indicated remote monitoring (RMON) event completed.

**Type**: Event: This message reports an event, not an error

**Severity**: warning

**Facility**: LOG_DAEMON

**SNMPD_RMON_MIBERROR**

**System Log Message**: function-name: internal Get request error: description, alarm alarm-id, error error-message, variable: name (oid)

**Description**: A Get request for a monitored object instance failed during initialization of the indicated remote monitoring (RMON) alarm.

**Type**: Error: An error occurred

**Severity**: error

**Facility**: LOG_DAEMON

**Cause**: An internal software failure occurred.

**Action**: Contact your technical support representative.

**SNMPD_RTSLIB_ASYNC_EVENT**

**System Log Message**: function-name: sequence mismatch (expected-value, received-value), resyncing

**Description**: A notification from the kernel to the Simple Network Management Protocol (SNMP) agent process (snmpd) was lost.
<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### SNMPD_SEND_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: send type (index1) failure: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Simple Network Management Protocol (SNMP) agent process (snmpd) could not send either a protocol data unit (PDU) to the User Datagram Protocol (UDP) or a message to a subagent.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB19110.</td>
</tr>
</tbody>
</table>

### SNMPD_SET_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Snmp set failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Configuration data was changed using a Simple Network Management Protocol (SNMP) Set request, but the SNMP agent process (snmpd) could not save the changes to the configuration database.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### SNMPD_SMOID_GEN_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to generate OID from product-name (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Simple Network Management Protocol (SNMP) agent process (snmpd) could not generate a value for the self-monitoring object identifier (OID) of the indicated product.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
</tbody>
</table>
SNMPD_SOCKET_FAILURE

**System Log Message**  
*function-name*: socket failure: *reason* (*error-message*)

**Description**  
The Simple Network Management Protocol (SNMP) agent process (snmpd) uses sockets for communication with subagents. A socket operation, such as creation or removal, failed.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
An internal software failure occurred.

**Action**  
Contact your technical support representative.

SNMPD_SOCKET_FATAL_FAILURE

**System Log Message**  
*function-name*: socket failure: *reason* (*error-message*)

**Description**  
The Simple Network Management Protocol (SNMP) agent process (snmpd) uses sockets for communication with subagents. The process exited after a socket operation, such as creation or removal, failed.

**Type**  
Error: An error occurred

**Severity**  
emergency

**Facility**  
LOG_DAEMON

**Cause**  
An internal software failure occurred.

**Action**  
Contact your technical support representative. For more information, see KB19111.

SNMPD_SYSLIB_FAILURE

**System Log Message**  
*function-name*: system function 'system-function-name' failed: *error-message*

**Description**  
The indicated function from the Simple Network Management Protocol (SNMP) system library failed and returned the indicated error to the SNMP agent process (snmpd).

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

**Cause**  
An internal software failure occurred.

**Action**  
Contact your technical support representative.
### SNMPD_SYSOID_FAILURE

**System Log Message**     Unable to determine sysObjectID from internal model: \textit{model}

**Description**     The Simple Network Management Protocol (SNMP) agent process (snmpd) could not determine the value of the sysObjectID object.

**Type**     Error: An error occurred

**Severity**     error

**Facility**     LOG_DAEMON

**Cause**     An internal software failure occurred.

**Action**     Contact your technical support representative.

### SNMPD_SYSOID_GEN_FAILURE

**System Log Message**     Unable to generate OID for product \textit{product-name} (\textit{error-message})

**Description**     The Simple Network Management Protocol (SNMP) agent process (snmpd) could not generate a value for the sysObjectID object for the indicated product.

**Type**     Error: An error occurred

**Severity**     error

**Facility**     LOG_DAEMON

**Cause**     An internal software failure occurred.

**Action**     Contact your technical support representative.

### SNMPD_THROTTLE_QUEUE_DRAINED

**System Log Message**     \textit{function-name}: cleared all throttled traps

**Description**     The queue of throttled traps was cleared.

**Type**     Event: This message reports an event, not an error

**Severity**     info

**Facility**     LOG_DAEMON

### SNMPD_TRAP_COLD_START

**System Log Message**     \textit{function-name}: SNMP trap: cold start

**Description**     The Simple Network Management Protocol (SNMP) agent process (snmpd) generated a cold-start trap when the entire Routing Engine (including the snmpd process) initialized.

**Type**     Event: This message reports an event, not an error
### SNMPD_TRAP_GEN_FAILURE

**System Log Message**

`function-name`: SNMP trap error: `trap-message` *(error-message)*

**Description**
The Simple Network Management Protocol (SNMP) agent process (snmpd) could not generate a trap.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Cause**
An internal software failure occurred.

**Action**
Contact your technical support representative.

### SNMPD_TRAP_INVALID_DATA

**System Log Message**

`function-name`: SNMP trap error: invalid message *(value)* received

**Description**
The Simple Network Management Protocol (SNMP) agent process (snmpd) received a trap message from a subagent that contained an invalid variable binding (varbind) type.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
LOG_DAEMON

**Cause**
An internal software failure occurred.

**Action**
Contact your technical support representative.

### SNMPD_TRAP_QUEUED

**System Log Message**

Adding trap to `trap-destination` to `queue-name` queue, *size* traps in queue

**Description**
A trap was queued for later transmission.

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
LOG_DAEMON

**Cause**
Possible causes include the following: (a) the system is not completely initialized, (b) a route does not exist, or (c) traps are being throttled.
SNMPD_TRAP_QUEUE_DRAINED
System Log Message  function-name: traps queued to trap-destination sent successfully
Description  The queued traps for the indicated destination were successfully sent.
Type  Event: This message reports an event, not an error
Severity  info
Facility  LOG_DAEMON

SNMPD_TRAP_QUEUE_MAX_ATTEMPTS
System Log Message  function-name: after count attempts, deleting trap-count traps queued to trap-destination
Description  The number of attempts to send traps to the indicated destination exceeded the configured maximum. The traps still waiting to be sent were discarded.
Type  Error: An error occurred
Severity  error
Facility  LOG_DAEMON
Action  Contact your technical support representative.

SNMPD_TRAP_QUEUE_MAX_SIZE
System Log Message  function-name: maximum queue size exceeded (size), discarding trap to trap-destination from queue-name queue
Description  The number of traps in the trap queue exceeded the configured maximum. The traps still waiting to be sent were discarded.
Type  Event: This message reports an event, not an error
Severity  info
Facility  LOG_DAEMON

SNMPD_TRAP_THROTTLED
System Log Message  function-name: traps throttled after count traps
Description  The number of traps waiting for transmission exceeded the configured maximum, so the remaining traps were throttled.
Type  Event: This message reports an event, not an error
Severity  info
Facility  LOG_DAEMON

SNMPD_TRAP_WARM_START
System Log Message  function-name: SNMP trap: warm start
**Description**  
The Simple Network Management Protocol (SNMP) agent process (snmpd) generated a warm-start trap when it initialized (other Routing Engine processes were already active).

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**SNMPD_USER_ERROR**

**System Log Message**  
`function-name: error in action user 'username' auth 'authentication-type' priv 'privilege-type'

**Description**  
The indicated operation (creation, installation, or deletion) failed during configuration of the indicated user.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>
 CHAPTER 103

SPD System Log Messages

This chapter describes messages with the SPD prefix. They are generated by the adaptive services process (spd), which provides the user interface for management and configuration of Adaptive Services PICs.

SPD_CONFIGURATION_COMPILE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Compilation of configuration rule rule-name term index failed: reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The adaptive services process (spd) could not compile a configured object, such as a rule or rule term.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

SPD_CONN_FATAL_FAILURE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Connection attempt failed with fatal error: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The adaptive services process (spd) attempted to open a connection to an Adaptive Services Physical Interface Card (PIC), to gather information requested in a Simple Network Management Protocol (SNMP) query. The attempt failed with the indicated fatal error.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

SPD_CONN_NO_REPLY

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>function-name: no reply from interface-name (error-message)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The adaptive services process (spd) did not receive a reply from the indicated interface on an Adaptive Services Physical Interface Card (PIC) for information requested in a Simple Network Management Protocol (SNMP) query.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
Severity  error
Facility  LOG_DAEMON

**SPD_CONN_OPEN_FAILURE**

**System Log Message**  function-name: unable to open connection to interface-name (error-message)

**Description**  The adaptive services process (spd) attempted to open a connection to the indicated interface on an Adaptive Services PIC, to gather information requested in a Simple Network Management Protocol (SNMP) query. The attempt failed for the indicated reason.

**Type**  Error: An error occurred
**Severity**  error
**Facility**  LOG_DAEMON

**SPD_CONN_SEND_FAILURE**

**System Log Message**  function-name: unable to send query to interface-name (error-message)

**Description**  The adaptive services process (spd) attempted to send a request for information, needed for a Simple Network Management Protocol (SNMP) query, to the indicated interface on an Adaptive Services Physical Interface Card (PIC). The attempt failed for the indicated reason.

**Type**  Error: An error occurred
**Severity**  error
**Facility**  LOG_DAEMON

**SPD_CONN_UNEXPECTED_MSG**

**System Log Message**  function-name: unexpected response received from interface-name (error-message)

**Description**  The adaptive services process (spd) sent a request for information, needed for a Simple Network Management Protocol (SNMP) query, to the indicated interface on an Adaptive Services Physical Interface Card (PIC). It received an unexpected response.

**Type**  Error: An error occurred
**Severity**  error
**Facility**  LOG_DAEMON

**SPD_DAEMONIZE_FAILED**

**System Log Message**  Aborting, unable to run in the background as a daemon: error-message

**Description**  The adaptive services process (spd) could not create a version of itself to run in the background as a daemon.

**Type**  Error: An error occurred
### SPD_DB_IF_ADD_FAILURE

**System Log Message**  
Unable to add database entry for `interface-name: error-message`

**Description**  
The adaptive services process (spd) uses an internal database to store information needed to reply to Simple Network Management Protocol (SNMP) queries. It could not add an entry to the database for the indicated interface on an Adaptive Services Physical Interface Card (PIC).

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### SPD_DB_IF_ALLOC_FAILURE

**System Log Message**  
Unable to allocate database entry for `interface-name: error-message`

**Description**  
The adaptive services process (spd) uses an internal database to store information needed to reply to Simple Network Management Protocol (SNMP) queries. It could not allocate an entry in the database for the indicated interface on an Adaptive Services Physical Interface Card (PIC).

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### SPD_DB_SVC_SET_ADD_FAILURE

**System Log Message**  
Unable to add database entry for `service-set: error-message`

**Description**  
The adaptive services process (spd) uses an internal database to store information needed to reply to Simple Network Management Protocol (SNMP) queries. It could not add an entry to the database for the indicated service set.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### SPD_DB_SVC_SET_ALLOC_FAILURE

**System Log Message**  
Unable to allocate database entry for `service-set: error-message`

**Description**  
The adaptive services process (spd) uses an internal database to store information needed to reply to Simple Network Management Protocol (SNMP) queries. It could not allocate an entry in the database for the indicated service set.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

SPD_DUPLICATE
System Log Message Another copy of this program is running
Description An attempt to start the adaptive services process (spd) failed because an instance of the process is already running.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

SPD_EVLIB_CREATE_FAILURE
System Log Message evCreate failed with: error-message
Description The adaptive services process (spd) could not create a context used for handling all asynchronous events (such as timers and message availability).

Type Error: An error occurred
Severity emergency
Facility LOG_DAEMON
Action For more information, see KB19114.

SPD_EVLIB_EXIT_FAILURE
System Log Message evMainLoop return value: return-value, error: error-message
Description The adaptive services process (spd) returned from an event loop, which it should never do.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

SPD_GEN_NUM_FAIL
System Log Message Initialization of generation number failed, error-message
Description The adaptive services process (spd) attempted to initialize the generation-number for the service sets. However, the memory allocation failed.

Type Error: An error occurred
Severity error
### SPD_NOT_ROOT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Must be run as root</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The user who attempted to start the adaptive services process (spd) was not the root user.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### SPD_OUT_OF_MEMORY

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Insufficient memory for operation operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The adaptive services process (spd) attempted to allocate memory for an internal object. The attempt failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### SPD_PID_FILE_LOCK

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to lock PID file: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The adaptive services process (spd) attempted to lock the file that records its process ID (PID), which serves to prevent multiple instances of spd from running simultaneously. The attempt failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### SPD_PID_FILE_UPDATE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to update process PID file: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The adaptive services process (spd) attempted to update the file that records its process ID (PID), which serves to prevent multiple instances of spd from running simultaneously. The attempt failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
SPD_SERVICE_NEXT_HOP_ADD_FAILED

System Log Message: Unable to add service next hop: error-message (error-code)

Description: The adaptive services process (spd) could not add a service next hop for the indicated reason.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

SPD_SERVICE_NEXT_HOP_DEL_FAILED

System Log Message: Unable to delete service next hop: error-message (error-code)

Description: The adaptive services process (spd) could not delete a service next hop for the indicated reason.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

SPD_TRAP_OID_GEN_FAILED

System Log Message: Unable to generate OID for identifier (error-message)

Description: The adaptive services process (spd) could not generate the indicated object identifier (OID) for a Simple Network Management Protocol (SNMP) trap notification.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

SPD_TRAP_REQUEST_FAILURE

System Log Message: function-name: type request failed: error-message

Description: The adaptive services process (spd) made the indicated type of request to the application programming interface (API) for generating Simple Network Management Protocol (SNMP) traps, but did not receive the expected result.

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON

SPD_USAGE

<table>
<thead>
<tr>
<th>Description</th>
<th>The adaptive services process (spd) displayed the syntax statement for the 'spd' command because the command was invoked incorrectly.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the SSH prefix. They are generated by the ssh-relay process (ssh).

**SSH_MSG_REPLAY_DETECT**

System Log Message: Potential replay attack detected on SSH connection initiated from `source-address:source-port`

Description: Potential ssh replay attack detected on the indicated connection.

Type: Event: This message reports an event, not an error

Severity: notice

Facility: ANY

**SSH_MSG_REPLAY_LIMIT**

System Log Message: Specified number of replay attacks (`limit`) detected on SSH connection initiated from `source-address:source-port`

Description: Several potential ssh replay attacks detected on the indicated connection

Type: Event: This message reports an event, not an error

Severity: notice

Facility: ANY

**SSH_RELAY_CONNECT_ERROR**

System Log Message: Unable to connect to `service-name` server: `error-message`

Description: The 'ssh-relay' program could not connect to the server process for the indicated service.

Type: Error: An error occurred

Severity: error

Facility: ANY

Cause: The server process is not running or has not enabled the service.
### SSH_RELAY_SERVER_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>SSH relay error for service-name service: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated error occurred when a Junos process tried to establish secure shell (SSH) relay during initialization of the indicated service.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative. For more information, see KB18954.</td>
</tr>
</tbody>
</table>

### SSH_RELAY_USAGE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Usage: ssh-relay -s service-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The syntax statement for the 'ssh-relay' command was displayed because the command was invoked with one or more incorrect options, or without necessary options.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>
CHAPTER 105

SSHD System Log Messages

This chapter describes messages with the SSHD prefix. They are generated by the secure shell process (sshd) which grants you access to specified shell accounts.

**SSHD_LOGIN_ATTEMPTS_THRESHOLD**

| System Log Message | Threshold for unsuccessful authentication attempts (limit) reached by user 'username'
|---------------------|--------------------------------------------------------------------------------------------------------------------------
| Description         | The user made too many failed login attempts.                                                                                 
| Type                | Event: This message reports an event, not an error                                                                           
| Severity            | notice                                                                                                                       
| Facility            | ANY                                                                                                                         

**SSHD_LOGIN_FAILED**

| System Log Message | Login failed for user 'username' from host 'source-address'
|---------------------|-------------------------------------------------------------------------------------------------------------------------
| Description         | A login attempt failed for the indicated username.                                                                          
| Type                | Event: This message reports an event, not an error                                                                           
| Severity            | notice                                                                                                                      
| Facility            | ANY                                                                                                                         

**SSHD_LOGIN_FAILED_LIMIT**

| System Log Message | Specified number of login failures (limit) for user 'username' reached from 'remote-address'
|---------------------|--------------------------------------------------------------------------------------------------------------------------
| Description         | Several login attempts failed for the indicated username.                                                                   
| Type                | Event: This message reports an event, not an error                                                                           
| Severity            | notice                                                                                                                      
| Facility            | ANY                                                                                                                         

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This chapter describes messages with the `SYSTEM` prefix. Messages without an event ID are grouped under this set of system log messages. For example, messages generated by the kernel, Packet Forwarding Engine, PIC, line-card chassis (LCC), switch-card chassis (SCC), etc. are grouped under the `SYSTEM` messages.

### SYSTEM_ABNORMAL_SHUTDOWN

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>System abnormally shut down</td>
<td>The system shut down abnormally. This can be caused by any number of factors such as pulling the power plug, a kernel panic, a thermal shutdown, and so forth.</td>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### SYSTEM_OPERATIONAL

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>System is operational</td>
<td>The system has entered operational status, and security logging has been started.</td>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### SYSTEM_SHUTDOWN

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>System type by username at time: message</td>
<td>An administrator requested that the system be shut down or rebooted.</td>
<td>Event: This message reports an event, not an error</td>
<td>notice</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
This chapter describes messages with the TASK prefix.

### TASK_ABORT

**System Log Message**

```
abort executable-name[pid] version version built by builder on date: error-message
```

**Description**
The control protocol process terminated because of an internal error.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  ANY  
**Action**
Examine the messages that immediately follow this message in the system log for information about possible causes.

**Cause**
An internal software failure occurred.

### TASK_ACTIVE_TERMINATE

**System Log Message**

```
Exiting with active tasks: task-name
```

**Description**
After receiving multiple termination requests, the control protocol process exited without performing the indicated cleanup tasks.

**Type**  Event: This message reports an event, not an error  
**Severity**  notice  
**Facility**  ANY

### TASK_ASSERT

**System Log Message**

```
Assertion failed executable-name[pid]: file "source-filename", line line-number: "message"
```

**Description**
The source code for this process includes internal self-consistency checks. The process terminated because a check failed, creating a diagnostic core dump for analysis by technical support personnel and noting the number of the line in the source file where the check failed.

**Type**  Error: An error occurred
Severity  error
Facility  ANY
Cause  An internal software failure occurred.

Action  Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core dump, if requested.

TASK_ASSERT_SOFT

System Log Message  Soft assertion failed executable-name[pid]: file "source-filename", line line-number: "message", daemon continued running

Description  The source code for the process includes internal self-consistency checks. A check failed but the process continued running. It created a diagnostic core dump for analysis by technical support personnel and noted the number of the line in the source file where the check failed.

Type  Error: An error occurred
Severity  error
Facility  ANY
Cause  An internal software failure occurred.

Action  Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core dump, if requested.

TASK_EXIT

System Log Message  Exit executable-name[pid] version version built by builder on date, caller address

Description  The process exited, either in response to a user request or because of a system error.

Type  Event: This message reports an event, not an error
Severity  notice
Facility  ANY
Cause  A system resource was unavailable, an unexpected error occurred, or a user terminated the process.

Action  Examine the messages that immediately follow this message in the system log for information about possible causes.

TASK_LOCK_FLOCKED

System Log Message  Unable to obtain a lock on filename, is another copy of the process running?
<table>
<thead>
<tr>
<th>Description</th>
<th>The process could not obtain the mutual exclusion lock that prevents more than one instance from running simultaneously. The system terminated the indicated process.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>Another process is running.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Use the 'show system process' command to verify that another process is running.</td>
</tr>
</tbody>
</table>

**TASK_LOCK_LOCKED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to obtain a lock on filename, program-name[pid] is still running</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The process could not obtain the mutual exclusion lock that prevents more than one instance from running simultaneously. The system terminated this instance.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>Another process is running.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Use the 'show system process' command to verify that another process is running.</td>
</tr>
</tbody>
</table>

**TASK_MGMT_TIMEOUT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>peer peer-name timed out waiting for input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Daemon timed out waiting for management input.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Examine the messages that immediately follow this message in the system log for information about possible causes.</td>
</tr>
</tbody>
</table>

**TASK_OS_MEMHIGH**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Using size KB of memory, percentage-value percent of available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The process is using the indicated amount and percentage of Routing Engine memory, which is considered excessive.</td>
</tr>
</tbody>
</table>
Type: Error: An error occurred
Severity: error
Facility: ANY
Cause: Either the process is leaking memory or the use of system resources is excessive.
Action: Increase the amount of RAM in the Routing Engine. For more information, see KB19121.

**TASK_SCHED_CALLBACK_LONGRUNTIME**

System Log Message: `function-name`: excessive runtime `time` during action of `module`
Description: The indicated submodule of this process ran uninterrupted for the indicated period of time, which is considered excessive.
Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY
Cause: The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

**TASK_SCHED_CUMULATIVE_RUNTIME**

System Log Message: `function-name`: excessive runtime (total of `time` in count callbacks) after action of `module`
Description: Several submodules of this process ran uninterrupted for the indicated period of time, which is considered excessive.
Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY
Cause: The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

**TASK_SCHED_MODULE_LONGRUNTIME**

System Log Message: `function-name`: excessive runtime `time` during action of `module`
Description: Several submodules of this process ran uninterrupted for the indicated period of time, which is considered excessive.
Type: Event: This message reports an event, not an error
Severity: warning
Facility: ANY
Cause The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

**TASK_SCHED_TASK_LONGRUNTIME**

**System Log Message** function-name ran for total-time (user-time user, system-time system) doing action

**Description** A task callback within this process ran uninterrupted for the indicated period of time, which is considered excessive.

**Type** Event: This message reports an event, not an error

**Severity** warning

**Facility** ANY

**Cause** The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

**TASK_SIGNAL_TERMINATE**

**System Log Message** termination signal no- signal-name received

**Description** In response to the indicated termination request, the process terminated and shut down.

**Type** Event: This message reports an event, not an error

**Severity** notice

**Facility** ANY

**TASK_START**

**System Log Message** Start executable-name[pid] version version built date

**Description** Process started.

**Type** Event: This message reports an event, not an error

**Severity** info

**Facility** ANY

**TASK_SYSTEM**

**System Log Message** reason: error-message

**Description** A system call made by this process failed.

**Type** Error: An error occurred

**Severity** error

**Facility** ANY

**Cause** It is possible that the kernel lacked the resources to fulfill the request.
### TASK_TASK_BEGIN

**System Log Message**
Commencing virtual chassis control daemon, version `process-version`, built `date` by `builder`.

**Description**
The process started.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
ANY

### TASK_TASK_CHILDKILLED

**System Log Message**
task-name terminated by SIGsignal-name core-dump-status

**Description**
While a child process was performing the indicated operation, it terminated in response to the indicated signal.

**Type**
Event: This message reports an event, not an error

**Severity**
error

**Facility**
ANY

### TASK_TASK_CHILDSTOPPED

**System Log Message**
task-name stopped by SIGsignal-name

**Description**
While a child process was performing the indicated operation, it stopped in response to the indicated signal.

**Type**
Event: This message reports an event, not an error

**Severity**
error

**Facility**
ANY

### TASK_TASK_FORK

**System Log Message**
Unable to fork task-name: error-message

**Description**
This process failed to create the indicated child process.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
ANY

### TASK_TASK_GETWD

**System Log Message**
getwd: error-message

**Description**
The getwd() system call failed.
Type: Error: An error occurred
Severity: error
Facility: ANY
Cause: It is possible that the kernel lacked the resources to fulfill the request.

**TASK_TASK_NOREINIT**

System Log Message: Reinitialization not possible
Description: This process (VCCPD) failed to reinitialize as requested, because it was running in a state that did not allow reconfiguration.

Type: Error: An error occurred
Severity: error
Facility: ANY

**TASK_TASK_PIDCLOSED**

System Log Message: Unable to close and remove filename: error-message
Description: This process tried to close and remove the file that records its process ID (PID), which serves to prevent multiple instances from running simultaneously. The attempt failed.

Type: Error: An error occurred
Severity: error
Facility: ANY

**TASK_TASK_PIDFLOCK**

System Log Message: flock(filename, LOCK_EX): error-message
Description: This process issued the flock() system call on the file that records its process ID (PID), which serves to prevent multiple instances from running simultaneously. The system call failed.

Type: Error: An error occurred
Severity: error
Facility: ANY

**TASK_TASK_PIDWRITE**

System Log Message: Unable to write filename: error-message
Description: This process tried to write to the file that records its process ID (PID), which serves to prevent multiple instances from running simultaneously. The attempt failed.

Type: Error: An error occurred
Severity: error
<table>
<thead>
<tr>
<th>Facility</th>
<th>ANY</th>
</tr>
</thead>
</table>

**TASK_TASK_REINIT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Reinitializing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This process reinitialized.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**TASK_TASK_SIGNALIGNORE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>sigaction(SIGsignal-name): error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This process informed the kernel that it wished to ignore the indicated signal, but the kernel failed to process the request.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**TASK_TRACE_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to write to trace file filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>This process could not write to the indicated trace file, and stopped attempting to do so. The next commit of the configuration database will reenable tracing.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>
This chapter describes messages with the TFTP prefix. They are generated by the Trivial FTP (TFTP) process (tnp.tftpd), which services requests from hardware components for the configuration files that they use during initialization.

**TFTPD_AF_ERR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unexpected address family address-family-type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>As each hardware component on the routing platform initializes, it requests its configuration file from the TFTP process (tnp.tftpd). The tnp.tftpd process exited because an incoming packet had the indicated, unexpected value in its address family (sockaddr) field.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**TFTPD_BIND_ERR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>bind: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Binding of a socket to an address failed due to a system error.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**TFTPD_CONNECT_ERR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>connect: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Connection of a socket to an address failed due to a system error.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>
### TFTPD_CONNECT_INFO

**System Log Message**  
TFTP operation from address address port port file filename

**Description**  
As each hardware component on the routing platform initializes, it requests its configuration file from the TFTP process (tnp.tftpd). The process established a connection with the indicated characteristics: kind of operation (read or write), address and port connected to, and name of file transferred.

- **Type**: Event: This message reports an event, not an error
- **Severity**: info
- **Facility**: ANY

### TFTPD_CREATE_ERR

**System Log Message**  
check_space error-message

**Description**  
The TFTP process (tnp.tftpd) could not create a core dump file.

- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: ANY
- **Cause**: There is probably not enough free space in the file system where tnp.tftpd tried to create the file.

### TFTPD_FIO_ERR

**System Log Message**  
ioctl(FIONBIO): error-message

**Description**  
The TFTP process (tnp.tftpd) could not set the standard input to be nonblocking.

- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: ANY

### TFTPD_FORK_ERR

**System Log Message**  
fork: error-message

**Description**  
As each hardware component on the routing platform initializes, it requests its configuration file from the TFTP process (tnp.tftpd). To service multiple clients simultaneously, tnp.tftpd calls the fork() system call to make a copy of itself for each request. The system call returned the indicated error.

- **Type**: Error: An error occurred
- **Severity**: error
- **Facility**: ANY
### TFTPD_NAK_ERR

**System Log Message**: nak error error-code, error-message  
**Description**: The TFTP process (tnp.tftpd) sent a negative acknowledgment to a client because of the indicated error condition.  
**Type**: Error: An error occurred  
**Severity**: warning  
**Facility**: ANY

### TFTPD_OPEN_ERR

**System Log Message**: Unable to open file 'filename', error: error-message  
**Description**: The TFTP process (tnp.tftpd) could not open the indicated file because of the indicated error.  
**Type**: Error: An error occurred  
**Severity**: warning  
**Facility**: ANY

### TFTPD_RECVCOMPLETE_INFO

**System Log Message**: Received count blocks of block-size size for file 'filename'  
**Description**: The TFTP process (tnp.tftpd) received the last portion of a transmitted file. This message records the number of blocks received, the block size used, and the name of the file to which the data was written.  
**Type**: Event: This message reports an event, not an error  
**Severity**: info  
**Facility**: ANY

### TFTPD_RECVFROM_ERR

**System Log Message**: recvfrom: error-message  
**Description**: The TFTP process (tnp.tftpd) issued the recvfrom() system call when attempting to receive data from the network. The system call failed.  
**Type**: Error: An error occurred  
**Severity**: error  
**Facility**: ANY

### TFTPD_RECV_ERR

**System Log Message**: recv: error-message  
**Description**: The TFTP process (tnp.tftpd) could not receive data from the network.
TFTPDA_SENDCOMPLETE_INFO

System Log Message: Sent count blocks of block-size and 1 block of size for file 'filename'

Description: The TFTP process (tnp.tftpd) successfully sent a file. This message records the number of blocks sent, the block size used, the size of the last block, and the name of the source file.

TFTPDA_SEND_ERR

System Log Message: send: error-message

Description: The TFTP process (tnp.tftpd) could not send data.

TFTPDA_SOCKET_ERR

System Log Message: socket: error-message

Description: The TFTP process (tnp.tftpd) could not open a socket for data transmission or reception.

TFTPDA_STATFS_ERR

System Log Message: statfs filename, error: error-message

Description: The TFTP process (tnp.tftpd) issued the statfs() system call to obtain the status of the file system into which it needed to write a crash file. The system call failed with the indicated error.
CHAPTER 109

UFDD System Log Messages

This chapter describes messages with the UFDD prefix. They are generated by the Junos OS command-line interface (CLI) and management process (mgd), which together form the Junos user interface that accepts and processes input from users and client applications.

UFDD_SYSTEM_CALL_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>reason: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A system call made by uplink failure detection process (ufdd) failed.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>It is possible that the kernel lacked the resources to fulfill the request.</td>
</tr>
</tbody>
</table>
CHAPTER 110

UI System Log Messages

This chapter describes messages with the UI prefix. They are generated by the Junos OS command-line interface (CLI) and management process (mgd), which together form the Junos user interface that accepts and processes input from users and client applications.

**UI_AUTH_BAD_LOCATION**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>User 'username' not allowed to log in from host client-name (client-address)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated user was denied login based on the location from which the user was logging in.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**UI_AUTH_BAD_TIME**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Login not allowed at this time for user 'username'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated user was denied login because the user is not permitted to log in at this time.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**UI_AUTH_EVENT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Authenticated user 'username' at permission level 'authentication-level'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The management process (mgd) authenticated the indicated user.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>
**UI_AUTH_INVALID_CHALLENGE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Received invalid authentication challenge for user 'username': response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>When a user logs onto the routing platform and attempts to authenticate, the CLI and management process (mgd) use a challenge-and-response system to limit the exposure of sensitive information such as passwords and keys. The format of the challenge generated by mgd was incorrect.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_USER</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**UI_BOOTTIME_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to fetch boot time: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The management process (mgd) could not retrieve the system boot time from the kernel.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**UI_CFG_AUDIT_NEW**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>User 'username' action: pathname new-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated user created a new configuration object by copying or renaming an existing object as indicated.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**UI_CFG_AUDIT_OTHER**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>User 'username' action: pathname delimitervalue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated user deleted, activated, or deactivated a configuration object, as indicated. The Junos configuration log facility logged the change.</td>
</tr>
</tbody>
</table>
**UI_CFG_AUDIT_SET**

**System Log Message**  
User 'username' action: pathname delimiterdata -> "value"

**Description**  
The indicated user set a value for a configuration object, as indicated.

**UI_CFG_AUDIT_SET_SECRET**

**System Log Message**  
User 'username' action: pathname

**Description**  
The indicated user set a value for a configuration object, as indicated. For security, the actual value (which might be an authentication key or password, for example) is not recorded.

**UI_CHILD_ARGS_EXCEEDED**

**System Log Message**  
Too many arguments for child process 'command'

**Description**  
The management process (mgd) invokes some commands on behalf of users. It supplied more arguments than the command's syntax statement specifies.

**UI_CHILD_CHANGE_USER**

**System Log Message**  
Unable to switch to local user: username

**Description**  
The management process (mgd) invokes some commands on behalf of users. Its attempt to adopt the UID of the indicated user failed.
Severity: error  
Facility: ANY  
Cause: An internal software failure occurred.

Action: Contact your technical support representative.

UI_CHILD_EXEC

System Log Message: Child exec failed for command 'command': error-message
Description: The management process (mgd) invoked the exec() system call while creating a child processes to execute the indicated command on its behalf. The system call failed.
Type: Error: An error occurred
Severity: error  
Facility: ANY  
Cause: An internal software failure occurred.

Action: Contact your technical support representative.

UI_CHILD_EXITED

System Log Message: Child exited: PID pid, status return-valuecore-dump-status, command 'command'
Description: The management process (mgd) created a child process to execute the indicated command for it. The child process exited unexpectedly with the indicated status code.
Type: Error: An error occurred
Severity: notice  
Facility: ANY  
Cause: An internal software failure occurred.

Action: Contact your technical support representative.

UI_CHILD_FOPEN

System Log Message: Unable to append to log 'filename': error-message
Description: The management process (mgd) attempted to save the output from a command in the indicated log file, but could not open the file.
Type: Error: An error occurred
Severity: error  
Facility: ANY
**UI_CHILD_OUTPUT**

**System Log Message**
Child output: message

**Description**
The management process (mgd) spawned a child process that output some messages which were requested to be hidden but need to be logged for informational purposes.

**Type**
Event: This message reports an event, not an error

**Severity**
info

**Facility**
ANY

**UI_CHILD_PIPE_FAILED**

**System Log Message**
Unable to create pipe for command 'command': error-message

**Description**
The management process (mgd) created a child process to execute the indicated command for it. Its attempt to create pipes for communication with the child process failed.

**Type**
Error: An error occurred

**Severity**
error

**Facility**
ANY

**Cause**
An internal software failure occurred.

**Action**
Contact your technical support representative. For more information, see KB19125.

**UI_CHILD_STOPPED**

**System Log Message**
Child stopped: PID pid, signal=signal-namecore-dump-status, command='command'

**Description**
The management process (mgd) created a child process to execute the indicated command for it. The child process received the indicated signal and stopped.

**Type**
Error: An error occurred

**Severity**
notice

**Facility**
ANY

**Cause**
An internal software failure occurred.

**Action**
Contact your technical support representative.
UI_CHILD_WAITPID

System Log Message  waitpid failed: PID pid, rc return-value, status status-code: error-message

Description  The management process (mgd) created a child process to execute a command for it. It could not wait for the child process to finish.

Type  Error: An error occurred
Severity  error
Facility  ANY
Cause  An internal software failure occurred.
Action  Contact your technical support representative.

UI_CLASS_MODIFIED_USERS

System Log Message  Class 'class-name' modified, affects users: username

Description  The indicated class was modified, affecting the indicated users, who are assigned to that class.

Type  Event: This message reports an event, not an error
Severity  info
Facility  ANY

UI_CLI_IDLE_TIMEOUT

System Log Message  Idle timeout for user 'username' exceeded and session terminated

Description  The indicated user's session was ended after a period of prolonged inactivity.

Type  Event: This message reports an event, not an error
Severity  info
Facility  LOG_USER

UI_CMDLINE_READ_LINE

System Log Message  User 'username', command 'command'

Description  The indicated user typed the indicated command at the CLI prompt and pressed the Enter key, sending the command string to the management process (mgd).

Type  Event: This message reports an event, not an error
Severity  info
Facility  LOG_AUTH
### UI_CMD_AUTH_REGEX_INVALID

**System Log Message**
Invalid `allow-deny` command authorization regular expression `regular-expression`: 

**Description**
An operation that attempted to set command or configuration authorization included the indicated regular expression. The operation failed because the expression syntax was invalid.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Action</td>
<td>Correct any errors in the regular expression.</td>
</tr>
</tbody>
</table>

### UI_COMMIT

**System Log Message**
User `username` requested `command` operation (comment: `message`)

**Description**
The indicated user requested the indicated type of commit operation on the candidate configuration and added the indicated comment. The 'commit' operation applies to the local Routing Engine and the 'commit synchronize' operation to both Routing Engines.

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

### UI_COMMIT_AT_ABORT

**System Log Message**
*reason*, will try again

**Description**
An attempt to complete a pending commit operation was cancelled for the indicated reason.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

### UI_COMMIT_AT_COMPLETED

**System Log Message**
'commit at' was successful

**Description**
Changes to the candidate configuration were activated at the time scheduled by a 'commit at' operation.

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>
## UI_COMMIT_AT_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>reason, scheduled commit cleared</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A 'commit at' operation did not complete, for the indicated reason.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

## UI_COMMIT_COMPRESS_FAILED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to compress file 'filename'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>As part of committing a new configuration, the management process (mgd) compresses and saves a copy of the configuration. mgd saved the configuration file in regular format because it could not compress it.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>The Routing Engine is low on resources.</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

## UI_COMMIT_CONFIRMED_REMINDER

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>'commit confirmed' must be confirmed within duration minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A 'commit confirmed' operation has activated the candidate configuration temporarily. If the commit is not confirmed within the indicated number of minutes (for example, by the command-line interface (CLI) 'commit' command), the management process (mgd) will roll back to the previous configuration.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

## UI_COMMIT_EMPTY_CONTAINER

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Skipped empty object 'node-name'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Some container objects are marked for automatic removal from the configuration hierarchy if they are empty when the user who created them changes to the top ([edit]) level of the hierarchy or exits configuration mode. While committing the candidate</td>
</tr>
</tbody>
</table>
configuration, the management process (mgd) encountered such an object that was empty but not removed.

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>When the commit operation began, the user who created the new container object had not populated it and was in configuration mode but not at the top level of the hierarchy.</td>
</tr>
<tr>
<td>Action</td>
<td>Populate or remove the empty object before committing the configuration. The user who created the object can remove it by exiting configuration mode or issuing the 'top' command to move to the top level of the hierarchy.</td>
</tr>
</tbody>
</table>

**UI_COMMIT_NOT_CONFIRMED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Commit was not confirmed; message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The 'commit confirmed' operation commits a configuration but requires confirmation within a defined number of minutes for the commit to become permanent. If the commit is not confirmed (by the 'commit' command, for example), the management process (mgd) automatically rolls back to the previously committed configuration. The automatic rollback restores management access to the routing platform in case an error in the configuration blocks access.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**UI_COMMIT_PREV_CNF_SAVED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Previously committed configuration saved to filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>In case automatic rollback of unconfirmed commit fails, previously committed configuration is saved up for further inspection.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td>Cause</td>
<td>The cause of the problem might be recorded in messages that precede this message in the system log.</td>
</tr>
</tbody>
</table>

**UI_COMMIT_PROGRESS**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Commit operation in progress: message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>As it performed a commit operation, the management process (mgd) recorded its execution of the indicated step.</td>
</tr>
</tbody>
</table>
UI_COMMIT_ROLLBACK_FAILED

System Log Message: Automatic rollback failed

Description: The 'commit confirmed' operation commits a configuration but requires confirmation within a defined number of minutes for the commit to become permanent. If the commit is not confirmed (by the 'commit' command, for example), the management process (mgd) automatically rolls back to the previously committed configuration. The 'commit confirmed' operation was not confirmed, but mgd could not roll back the configuration. The configuration might be in an indeterminate state.

UI_COMMIT_SYNC_FORCE

System Log Message: All logins to local configuration database were terminated because forced 'commit synchronize' operation was invoked on other Routing Engine

Description: The 'commit synchronize force' command was issued on the other Routing Engine on the router. All login sessions in the local configuration database were terminated and the configuration from the other Routing Engine was committed on the local Routing Engine.

UI_COND_GROUPS

System Log Message: message 'group-name' is reason

Description: Conditional groups may get internally effective or revoked as per specified condition

UI_COND_GROUPS_COMMIT

System Log Message: Cond-Groups: message
<table>
<thead>
<tr>
<th>Description</th>
<th>Info about an attempt to complete a pending commit operation as by indicated reason.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>info</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
</tbody>
</table>

**UI_COND_GROUPS_COMMIT_ABORT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Cond-Groups: reason</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>An attempt to complete a pending commit operation was cancelled for the indicated reason.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
</tbody>
</table>

**UI_CONFIGURATION_ERROR**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The indicated process found a problem in its configuration.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
</tbody>
</table>

**UI_CONFIGURATION_WARNING**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The indicated process found a problem in its configuration.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
</tbody>
</table>

**UI_DAEMON_ACCEPT_FAILED**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>connection-type socket connection accept failed: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The management process (mgd) did not accept an incoming connection request.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>UI_DAEMON_FORK_FAILED</strong></td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>--</td>
</tr>
<tr>
<td><strong>System Log Message</strong></td>
<td>Unable to create session child: <em>error-message</em></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The management process (mgd) invokes the fork() system call to create a copy of itself for each CLI session. The system call failed.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>UI_DAEMON_SELECT_FAILED</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
<td>select failed: <em>error-message</em></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The management process (mgd) uses the select() system call to listen for incoming connection requests on a socket. The system call failed.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>UI_DAEMON_SOCKET_FAILED</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Log Message</strong></td>
<td>connection-type socket create failed: <em>error-message</em></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The management process (mgd) uses sockets to communicate with other JUNOS software processes running on the routing platform. It could not allocate a socket.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>error</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_AUTH</td>
</tr>
<tr>
<td><strong>Cause</strong></td>
<td>System resources are exhausted.</td>
</tr>
<tr>
<td><strong>Action</strong></td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>
**UI_DBASE_ACCESS FAILED**

**System Log Message**
Unable to reaccess configuration database file `filename`, address address, size size:
reason

**Description**
To increase the size of the configuration database, the management process (mgd) must unmap the database from its address space, change the database size, and remap the database. The remapping operation failed.

**Type** Error: An error occurred
**Severity** error
**Facility** ANY
**Cause** An internal software failure occurred.
**Action** Contact your technical support representative.

**UI_DBASE_CHECKOUT_FAILED**

**System Log Message**
Database `filename` is out of data and needs to be rebuilt

**Description**
When the routing platform boots, the management process (mgd) checks the configuration database for internal consistency. It found one or more inconsistencies.

**Type** Event: This message reports an event, not an error
**Severity** alert
**Facility** ANY
**Cause** mgd restarted after new Junos OS was installed.
**Action** None; mgd will rebuild the database.

**UI_DBASE_EXTEND FAILED**

**System Log Message**
Unable to extend configuration database file `filename` to size requested-size: reason

**Description**
The management process (mgd) could not increase the configuration database to the indicated size.

**Type** Error: An error occurred
**Severity** error
**Facility** ANY
**Cause** The hard disk is defective or is not installed in the routing platform.
**Action** Repair or replace the hard disk.
Cause: There is insufficient disk space on the /var partition on the hard disk.

Action: Delete user files from the /var/homes directory to increase the available disk space.

**UI_DBASE_LOGIN_EVENT**

System Log Message: User 'username' entering configuration mode

Description: The indicated user entered configuration mode (logged into the configuration database).

Type: Event: This message reports an event, not an error

Severity: notice

Facility: ANY

**UI_DBASE_LOGOUT_EVENT**

System Log Message: User 'username' exiting configuration mode

Description: The indicated user exited configuration mode (logged out of the configuration database).

Type: Event: This message reports an event, not an error

Severity: notice

Facility: ANY

**UI_DBASE_MISMATCH_EXTENT**

System Log Message: Database header extent mismatch for file 'filename': expecting expected-value, got received-value

Description: The header in the configuration database records the highest address allocated in the database. The management process (mgd) discovered that the highest address actually allocated in the database does not match the header value.

Type: Error: An error occurred

Severity: error

Facility: ANY

Cause: The database file is corrupted.

Action: Contact your technical support representative.

**UI_DBASE_MISMATCH_MAJOR**

System Log Message: Database header major version number mismatch for file 'filename': expecting expected-value, got received-value

Description: For compatibility, the version number recorded in the header of the configuration database must match the version of Junos OS running on the routing platform. The management
process (mgd) discovered that the major parts (for example, '5' in '5.x') of the version numbers do not match.

**Type** Error: An error occurred  
**Severity** error  
**Facility** ANY  
**Cause** A recent software upgrade did not complete successfully.

**Action** Issue the 'show version' command to check the JUNOS version. If necessary, issue the 'request system reboot' command to reboot the routing platform and complete the software installation.

**Cause** The database file is corrupted.

**Action** Contact your technical support representative.

---

**UI_DBASE_MISMATCH_MINOR**

**System Log Message** Database header minor version number mismatch for file 'filename': expecting expected-value, got received-value

**Description** For compatibility, the version number recorded in the header of the configuration database must match the version of Junos OS running on the routing platform. The management process (mgd) discovered that the minor parts (for example, '2' in 'x.2') of the version numbers do not match.

**Type** Error: An error occurred  
**Severity** error  
**Facility** ANY  
**Cause** A recent software upgrade did not complete successfully.

**Action** Issue the 'show version' command to check the Junos version. If necessary, issue the 'request system reboot' command to reboot the routing platform and complete the software installation.

**Cause** The database file is corrupted.

**Action** Contact your technical support representative.

---

**UI_DBASE_MISMATCH_SEQUENCE**

**System Log Message** Database header sequence numbers mismatch for file 'filename'. If a package has just been added or deleted, please verify and commit the configuration.
Description: The header of the configuration database records the version number of the configuration schema (possible set of statements) used when the database was created. To prevent corruption, all Junos processes that access the database must use the same schema. The management process (mgd) discovered that the version number for the Junos OS installed on the routing platform does not match the header value.

Type: Error: An error occurred
Severity: warning
Facility: ANY
Cause: A recent software upgrade did not complete successfully.
Action: Issue the 'show version' command to check the Junos version. If necessary, issue the 'request system reboot' command to reboot the routing platform and complete the software installation.

Cause: The database file is corrupted.
Action: Contact your technical support representative.

UI_DBASE_MISMATCH_SIZE

System Log Message: Database header size mismatch for file 'filename': expecting expected-value, got received-value
Description: The header of the configuration database records the database size. The management process (mgd) discovered that the size of the actual database file does not match the header value.

Type: Error: An error occurred
Severity: error
Facility: ANY
Cause: The database file is corrupted.
Action: Contact your technical support representative.

UI_DBASE_OPEN_FAILED

System Log Message: Database open failed for file 'filename': reason
Description: The management process (mgd) could not open the indicated configuration database file.

Type: Error: An error occurred
Severity: error
Facility: ANY
Cause The database file does not exist.
Action Select a different filename or create a new configuration.

Cause The /config directory does not have sufficient space for a new database.
Action Remove files from the /config directory to make more space available.

UI_DBASE_REBUILD_FAILED
System Log Message modeusername rebuild of the database 'filename' failed
Description The management process (mgd) could not rebuild the configuration database file.
Type Error: An error occurred
Severity alert
Facility ANY
Cause An internal software failure occurred.
Action Contact your technical support representative. For more information, see KB19123.

UI_DBASE_REBUILD_SCHEMA_FAILED
System Log Message Automatic rebuild of the database failed
Description The management process (mgd) could not rebuild the schema for the configuration database.
Type Error: An error occurred
Severity alert
Facility ANY
Cause An internal software failure occurred.
Action Contact your technical support representative. For more information, see KB19124.

UI_DBASE_REBUILD_STARTED
System Log Message modeusername rebuild/rollback of the database 'filename' started
Description The management process (mgd) began to rebuild the configuration database file or its schema because that object was not current. The operation will complete shortly.
Type Event: This message reports an event, not an error
Severity alert
Facility ANY
**UI_DBASE_RECREATE**

**System Log Message** User 'username' attempting database re-creation

**Description** The management process (mgd) discovered that the version of Junos OS running on the routing platform does not match the version of the current configuration database. In response to a prompt from mgd, the indicated user initiated a rebuilding of the database.

**Type** Event: This message reports an event, not an error

**Severity** notice

**Facility** ANY

**UI_DBASE_REOPEN_FAILED**

**System Log Message** Reopen of the database failed

**Description** After rebuilding the schema file for the configuration database, the management process (mgd) closes the file and reopens it in read-only mode to prevent corruption. It could not reopen the file.

**Type** Error: An error occurred

**Severity** alert

**Facility** ANY

**Cause** An internal software failure occurred.

**Action** Contact your technical support representative. For more information, see KB19125.

**UI_DUPLICATE_UID**

**System Log Message** Users username1 and username2 have the same UID uid

**Description** The Junos OS allows multiple user login accounts to share the same UID. This message was logged in case site policy dictates that users should not share UIDs.

**Type** Event: This message reports an event, not an error

**Severity** notice

**Facility** ANY

**Action** Assign different UIDs to the affected users.

**UI_FACTORY_OPERATION**

**System Log Message** Committing factory default configuration because CONFIG button was pressed and held

**Description** The management process (mgd) began a commit operation to activate the factory default configuration, because the CONFIG button on the chassis was pressed and held for 15 seconds or more.
<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**UI_INITIALSETUP_OPERATION**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Committing EZsetup configuration as EZsetup option is chosen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The management process (mgd) began a commit operation to activate the pre initial setup configuration, because the initial-setup option was selected from the LCD Menu.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**UI_INVALID_REMOTE_PERMISSION**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>invalid permissions from authorization server: permission-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>RADIUS and TACACS+ authorization servers use Juniper Networks vendor-specific attributes (VSAs) to specify user permissions. A VSA included the indicated permission name, which is invalid.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**UI_JUNOSCRIPT_CMD**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>User 'username' used JUNOScript client to run command 'command'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated user ran the indicated command using the JUNOS XML management protocol.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Event: This message reports an event, not an error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**UI_JUNOSCRIPT_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>JUNOScript error: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The management process (mgd) normally sends an error message to the Junos OS CLI or JUNOScript API client in an <a href="">xnm:error</a> tag. It could not send the tag, so it sent the indicated error message in an XML comment instead.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
</tbody>
</table>
UI_LCC_NO_MASTER

System Log Message  No master Routing Engine defined for LCC/lcc

Description  By default, the JUNOS software installed on the TX Matrix platform in a routing matrix is automatically copied to and installed on all T640 routing nodes in the routing matrix. The software was not installed on the indicated T640 routing node (line-card chassis, or LCC), because the management process (mgd) on the TX Matrix platform could not determine which Routing Engine on the LCC was the master.

Type  Error: An error occurred

Severity  error

Facility  LOG_AUTH

Action  Resolve the mastership situation on the T640 routing node and install the software on its Routing Engines.

UI_LOAD_EVENT

System Log Message  User 'username' is performing a 'operation'

Description  The indicated user requested the indicated operation ('rollback', ' or 'load' or one of its variants) on the configuration database. The existing configuration database was deleted and a new database was created based on a text file.

Type  Event: This message reports an event, not an error

Severity  notice

Facility  ANY

UI_LOAD_JUNOS_DEFAULT_FILE_EVENT

System Log Message  Loading the default config from pathname

Description  The system is loading junos default configuration from file.

Type  Event: This message reports an event, not an error

Severity  info

Facility  ANY

UI_LOGIN_EVENT

System Log Message  User 'username' login, class 'class-name' local-peer[pid], ssh-connection 'ssh-connection', client-mode 'client-mode'

Description  The indicated user started a Junos OS CLI session.

Type  Event: This message reports an event, not an error

Severity  info
<table>
<thead>
<tr>
<th>Facility</th>
<th>ANY</th>
</tr>
</thead>
</table>

**UI_LOGOUT_EVENT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>User 'username' logout</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated user exited from a Junos OS CLI session.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
</tbody>
</table>

**UI_LOST_CONN**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Lost connection to daemon 'process-name'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The management process (mgd) uses sockets to communicate with other Junos OS processes. The socket it was using for the indicated process closed prematurely.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**UI_MASTERSHIP_EVENT**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>mastership-event card-name mastership by 'username'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Some redundant routing platform components use a master/standby system in which the master component is active and the standby is inactive but ready to assume mastership. The indicated user performed the indicated operation to modify component mastership.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

**UI_MOTD_PROPAGATE_ERROR**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Unable to propagate login announcement (motd) to pathname</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The management process (mgd) could not create or write to the indicated file, which was the intended location for the message of the day (MOTD) configured at the [edit system login announcement] hierarchy level.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
</tbody>
</table>
Severity error
Facility ANY

UI_NETCONF_CMD
System Log Message User 'username' used NETCONF client to run command 'command'
Description The indicated user ran the indicated command using the NETCONF application programming interface (API).
Type Event: This message reports an event, not an error
Severity info
Facility LOG_AUTH

UI_NETCONF_ERROR
System Log Message NETCONF error: error-message
Description The management process (mgd) normally sends error messages to the NETCONF client in the <rpc-error> tag element. It could not send that tag element, and instead sent the indicated error message in an XML comment.
Type Error: An error occurred
Severity warning
Facility ANY

UI_PARSE_JUNOSCRIPT_ATTRIBUTES
System Log Message Error parsing attributes in client junoscript tag
Description The management process (mgd) encountered an error and exited while attempting to parse the XML attributes in the <junoscript> tag submitted by a client application.
Type Error: An error occurred
Severity error
Facility LOG_AUTH

UI_READ_FAILED
System Log Message read failed for peer peer-name: error-message
Description The management process (mgd) uses the read() system call to access data sent by other Junos processes running on the routing platform (referred to as its peers). The system call failed for the indicated process.
Type Error: An error occurred
Severity error
Facility ANY
**Cause**
An internal software failure occurred.

**Action**
Contact your technical support representative. For more information, see KB19126.

### UI_READ_TIMEOUT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Timeout on read of peer 'peer-name'</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>When communicating with other Junos processes running on the routing platform (referred to as peers), the management process (mgd) waits only a defined period for responses to arrive. The timeout period passed for the indicated process.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>notice</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>ANY</td>
</tr>
</tbody>
</table>

### UI_REBOOT_EVENT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>System halt-reboot by 'username'</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The indicated software process restarted as requested by the indicated user.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

### UI_RESCUE_OPERATION

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Committing rescue configuration because CONFIG button was pressed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The management process (mgd) began a commit operation to activate the rescue configuration, because the CONFIG button on the chassis was pressed.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>notice</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>

### UI_RESTART_EVENT

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>User 'username' restarting daemon 'process-name'description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The indicated software process restarted as requested by the indicated user.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td><strong>Severity</strong></td>
<td>warning</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>LOG_AUTH</td>
</tr>
</tbody>
</table>
### UI_SCHEMA_CHECKOUT_FAILED

**System Log Message** Schema is out of date and needs to be rebuilt

**Description** The Junos user interface schema file records all CLI commands and configuration statements available in the Junos OS. While initializing, the new management process (mgd) determined that the schema's sequence number means that the schema is incompatible with the Junos OS installed on the routing platform.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>alert</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>The schema is out of date.</td>
</tr>
<tr>
<td>Action</td>
<td>None; mgd will rebuild the schema based on the current Junos version.</td>
</tr>
</tbody>
</table>

### UI_SCHEMA_MISMATCH_MAJOR

**System Log Message** Schema major version mismatch for package **package-name** (expected-value vs. **received-value**)

**Description** The Junos user interface schema file records all CLI commands and configuration statements available in the Junos OS. While initializing, the management process (mgd) discovered that the major part (for example, '5' in '5.x') of the schema version number does not match the major version number of the Junos OS installed on the routing platform. The mismatch could lead to corruption of the configuration database.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>ANY</td>
</tr>
<tr>
<td>Cause</td>
<td>The schema is incompatible with the installed Junos OS.</td>
</tr>
<tr>
<td>Action</td>
<td>None; mgd will rebuild the schema based on the current Junos version.</td>
</tr>
<tr>
<td>Cause</td>
<td>An internal software failure occurred.</td>
</tr>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

### UI_SCHEMA_MISMATCH_SEQUENCE

**System Log Message** Schema header sequence numbers mismatch for package **package-name**

**Description** The Junos user interface schema file records all CLI commands and configuration statements available in the Junos OS. Schema sequence numbers serve as a checksum of the configuration data schema and ensure that the software used to access the
The Junos OS installation did not succeed, possibly because of an internal software error.

Action
Contact your technical support representative.

**UI_SCHEMA_SEQUENCE_ERROR**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schema sequence number mismatch</td>
</tr>
</tbody>
</table>

The Junos user interface schema file records all CLI commands and configuration statements available in the Junos OS. The management process (mgd) rebuilds the schema as necessary to be compatible with the Junos OS installed on the routing platform. A sequence number in the schema acts as a checksum that represents its content and format. A Junos process attempted to access the schema but determined that the schema’s sequence number means that it is incompatible with the process.

**UI_TACPLUS_ERROR**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TACACS+ failure: error-message</td>
</tr>
</tbody>
</table>

The management process (mgd) failed to send a record to TACACS+.

**UI_VERSION_FAILED**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unable to fetch system version: error-message</td>
</tr>
</tbody>
</table>

The management process (mgd) could not retrieve version information from the kernel.
### UI_WRITE_RECONNECT

<table>
<thead>
<tr>
<th>Facility</th>
<th>ANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Contact your technical support representative.</td>
</tr>
</tbody>
</table>

**System Log Message**
Re-establishing connection to peer 'peer-name'

**Description**
The management process (mgd) reconnected to the indicated Junos process running on the routing platform.

**Type**
Event: This message reports an event, not an error

**Severity**
notice

**Facility**
ANY
CHAPTER 111

UTMD System Log Messages

This chapter describes messages with the UTMD prefix. They are generated by the unified threat management process (utmd) which protects the network from all types of attack.

**UTMD_MAILNOTIFIER_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Error:error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The connection could have failed during memory allocation or socket creation</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>warning</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

**UTMD_MALLOCP_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Out of memory. Unable to malloc error-message bytes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The example process (utmd) could not allocate memory for a resource possibly due to lack of memory</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB19127.</td>
</tr>
</tbody>
</table>

**UTMD_SSAMLIB_FAILURE**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>ssamlib call returned error: error-message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The example process (utmd) encountered an error while calling a function or from a callback of the ssamlib library.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
**Action**  For more information, see [KB19128](#).
### VCCPD System Log Messages

This chapter describes messages with the VCCPD prefix. They are generated by the virtual chassis control protocol (vccpd) process which exchanges link-state advertisement based discovery messages between all the packet forwarding engines (PFE) through the virtual chassis ports (VCP).

#### VCCPD_KNL_VERSION

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routing socket version mismatch (kernel kernel-version != vccpd version) -- kernel upgrade required</td>
<td>The virtual chassis control protocol process (VCCPD) discovered that the kernel does not support the version of routing sockets it requires.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
<td>The kernel version is older than the VCCPD version.</td>
<td>Upgrade the kernel package.</td>
</tr>
</tbody>
</table>

#### VCCPD_KNL_VERSIONNONE

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
<th>Type</th>
<th>Severity</th>
<th>Facility</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routing socket message type message-type's version is not supported by kernel, expected version -- kernel upgrade required</td>
<td>The virtual chassis control protocol process (VCCPD) discovered that the kernel does not support the routing socket message types that it requires.</td>
<td>Error: An error occurred</td>
<td>error</td>
<td>LOG_DAEMON</td>
<td>The kernel version is older than the VCCPD version.</td>
<td>Upgrade the kernel package.</td>
</tr>
</tbody>
</table>
### VCCPD_KNL_VERSIONOLD

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Routing socket message type message-type's version is older than expected (kernel-version &lt;version) -- consider upgrading the kernel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The virtual chassis control protocol process (VCCPD) discovered that the kernel uses an older version of routing socket message types than it does.</td>
</tr>
<tr>
<td>Type</td>
<td>Error: An error occurred</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The kernel version is older than the VCCPD version.</td>
</tr>
<tr>
<td>Action</td>
<td>Upgrade the kernel package.</td>
</tr>
</tbody>
</table>

### VCCPD_PROTOCOL_ADJDOWN

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Lost adjacency to neighbor-system-ids on interface-name.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A virtual chassis adjacency with the indicated neighboring switch was terminated. The local switch no longer exchanges information with the neighboring switch.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>notice</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Cause</td>
<td>The communication path to the neighboring switch was disrupted, a protocol error occurred, or the neighboring switch was powered down.</td>
</tr>
</tbody>
</table>

### VCCPD_PROTOCOL_ADJUP

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>New adjacency to neighbor-system-ids on interface-name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A virtual chassis adjacency was established with the indicated neighboring switch. The local switch can now exchange information with it.</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>info</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### VCCPD_PROTOCOL_LSPCKSUM

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>LSP checksum error, interface interface-name, LSP id Ispl, sequence sequence-number, checksum checksum, lifetime duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The indicated vccpd link-state PDU (LSP) failed an internal checksum validity test, implying that it was corrupted.</td>
</tr>
</tbody>
</table>
Type: Error: An error occurred
Severity: warning
Facility: LOG_DAEMON
Cause: The packet was corrupted in transit between the neighboring switch and this switch, or memory on one of the switches was corrupted.
Action: None, unless a large number of these messages appear in the system log file. The corrupted LSP is purged from the virtual chassis and sent again by the originator. For more information, see KB19129.

**VCCPD_PROTOCOL_OVERLOAD**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>vccpd database overload</td>
<td>The vccpd link-state database is full and no additional memory can be allocated for it.</td>
</tr>
</tbody>
</table>

Type: Error: An error occurred
Severity: alert
Facility: LOG_DAEMON
Cause: No additional memory is available for storing vccpd link-state information. Either system resources are exhausted or a software error occurred (such as a memory leak).
Action: Perform one or more of the following actions: (1) Check for unusually high memory usage by vccpd, (2) Add more memory to the switch. For more information, see KB19130.

**VCCPD_SYSTEM**

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>reason: error-message</td>
<td>A system call made by this process failed.</td>
</tr>
</tbody>
</table>

Type: Error: An error occurred
Severity: error
Facility: LOG_DAEMON
Cause: It is possible that the kernel lacked the resources to fulfill the request.
This chapter describes messages with the **VRRPD** prefix. They are generated by the Virtual Router Redundancy Protocol (VVRP) process (vrrpd), which provides the user interface for management of VRRP groups.

### **VRRPD_ADVERT_TIME_MISMATCH**

**System Log Message**

Packet received by `interface-name` for VRRP group `vrrp-group-id` had advertisement time `received-value` ms instead of required `expected-value` ms.

**Description**

A Virtual Routing Redundancy Protocol (VRRP) advertisement packet received by the indicated interface for the indicated VRRP group specified an advertisement-timer value different from the value configured for the interface and group. The advertisement interval must be the same on all routing platforms in the VRRP group. For VRRP with IPv4, the value is set by the 'advertise-interval <seconds>' or 'fast-interval <milliseconds>' statement at the `[edit interfaces <interface-name> unit <logical-unit-number> family inet address <address> vrrp-group <group-number>]` hierarchy level. For VRRP with IPv6, the value is set by the 'inet6-advertise-interval <seconds>' or 'fast-interval <milliseconds>' statement at the `[edit interfaces <interface-name> unit <logical-unit-number> family inet6 address <address> vrrp-inet6-group <group-number>]` hierarchy level.

**Type**

Error: An error occurred

**Severity**

error

**Facility**

LOG_DAEMON

### **VRRPD_AUTH_INFO_INVALID**

**System Log Message**

VRRP ad packet from `ip-address` received by interface `interface-name.interface-unit` for group `vrrp-group-id` was invalid: `error-message`.

**Description**

The Virtual Routing Redundancy Protocol (VRRP) advertisement packet sent from the indicated IP address and received by the VRRP process (vrrpd) for the indicated group at the indicated address contained invalid authentication information. The message 'invalid-authentication-type' means that the packet specifies an authentication type that is not defined in RFC 2338, Virtual Router Redundancy Protocol. The message 'authentication-type-mismatch' means that the packet specifies an authentication type different from the type used by the interface that received the packet. The message...
"authentication-key-mismatch" means that the authentication key in the packet is incorrect.

**Type**  Error: An error occurred  
**Severity**  warning  
**Facility**  LOG_DAEMON

**VRRPD_GET_TRAP_HEADER_FAILED**

**System Log Message**  Request for trap signature header failed  
**Description**  The Virtual Routing Redundancy Protocol (VRRP) process requested the signature header for an SNMP trap. The request failed.

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON  
**Cause**  An internal software failure occurred.

**VRRPD_LINK_LOCAL_ADD_MISMATCH**

**System Log Message**  Link-Local Address Mismatch: received-value expected-value  
**Description**  The indicated interface received a Virtual Routing Redundancy protocol (VRRP) packet for the indicated VRRP group in which the link-local address was different from the one configured for the group and interface

**Type**  Error: An error occurred  
**Severity**  error  
**Facility**  LOG_DAEMON

**VRRPD_MISSING_VIP**

**System Log Message**  Packet received by interface-name for VRRP group vrrp-group-id did not include required virtual IP address ip-address  
**Description**  The indicated interface received a Virtual Routing Redundancy protocol (VRRP) packet for the indicated VRRP group in which the list of virtual IP addresses did not include the indicated address. For VRRP with IPv4, the list is defined by the 'virtual-address [ <addresses> ]' statement at the [edit interfaces <interface-name> unit <logical-unit-number> family inet address <address> vrrp-group <group-number>] hierarchy level. For VRRP with IPv6, the list is defined by the 'virtual-inet6-address [ <addresses> ]' statement at the [edit interfaces <interface-name> unit <logical-unit-number> family inet6 address <address> vrrp-inet6-group <group-number>] hierarchy level.

**Type**  Error: An error occurred
<table>
<thead>
<tr>
<th>Severity</th>
<th>error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
<tr>
<td>Action</td>
<td>For more information, see KB19131.</td>
</tr>
</tbody>
</table>

### VRRPD_NEW_BACKUP

**System Log Message**

Interface `interface-name.interface-unit` (local address `interface-address`) became VRRP backup for group `vrrp-group-id`

**Description**

The indicated interface became the Virtual Routing Redundancy Protocol (VRRP) backup for the indicated VRRP group. The VRRP process (vrrpd) stopped sending VRRP advertisements for the virtual IP address on the interface that corresponds to the group.

**Type**

Event: This message reports an event, not an error

**Severity**

warning

**Facility**

LOG_DAEMON

### VRRPD_NEW_MASTER

**System Log Message**

Interface `interface-name.interface-unit` (local address `interface-address`) became VRRP master for group `vrrp-group-id`

**Description**

The indicated interface became the Virtual Routing Redundancy Protocol (VRRP) master for the indicated VRRP group. The VRRP process (vrrpd) started sending VRRP advertisements for the virtual IP address on the interface that corresponds to the group.

**Type**

Event: This message reports an event, not an error

**Severity**

warning

**Facility**

LOG_DAEMON

### VRRPD_VIP_COUNT_MISMATCH

**System Log Message**

Packet received by `interface-name` for VRRP group `vrrp-group-id` had `received-value` virtual IP addresses instead of required `expected-value`

**Description**

The indicated interface received a Virtual Routing Redundancy Protocol (VRRP) packet for the indicated VRRP group in which the number of virtual IP addresses was different from the number of addresses configured for the group and interface. The list of addresses must be the same on all routing platforms in a VRRP group. For VRRP with IPv4, the list is defined by the 'virtual-address [ <addresses> ]' statement at the [edit interfaces <interface-name> unit <logical-unit-number> family inet address <address> vrrp-group <group-number> ] hierarchy level. For VRRP with IPv6, the list is defined by the 'virtual-inet6-address [ <addresses> ]' statement at the [edit interfaces <interface-name> unit <logical-unit-number> family inet6 address <address> vrrp-inet6-group <group-number> ] hierarchy level.

**Type**

Error: An error occurred

**Severity**

error
Facility   LOG_DAEMON
CHAPTER 114

WEB System Log Messages

This chapter describes messages with the WEB prefix. They are generated by the Hypertext Transfer Protocol process (httpd), which provides a graphical user interface (GUI) for monitoring and configuring J Series Services Routers.

WEB_AUTH_FAIL

System Log Message: Unable to authenticate httpd client (username username)
Description: The checklogin authentication process could not authenticate the indicated user.
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_AUTH

WEB_AUTH_SUCCESS

System Log Message: Authenticated httpd client (username username)
Description: The checklogin authentication process authenticated the indicated user.
Type: Event: This message reports an event, not an error
Severity: notice
Facility: LOG_AUTH

WEB_AUTH_TIME_EXCEEDED

System Log Message: Login attempt exceeded maximum processing time
Description: The checklogin process halted a login attempt because it took longer than the maximum processing time allowed.
Type: Error: An error occurred
Severity: error
Facility: LOG_AUTH

WEB_CERT_FILE_NOT_FOUND

System Log Message: Could not find certificate file 'filename', disabling HTTPS
### Description
http-gk could not open the configured HTTPS certificate for reading.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### WEB_CHILD_STATE
System Log Message: Unable to retrieve child state: error-message
Description: The Web management process (httpd) could not retrieve state information for a child process that had exited, for the indicated reason.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### WEB_CONFIG_OPEN_ERROR
System Log Message: Could not open 'filename' for writing
Description: httpd-gk could not open the web server configuration file for writing.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### WEB_CONFIG_WRITE_ERROR
System Log Message: Could not write 'filename' configuration. Disk full?
Description: httpd-gk could not write the web server configuration file to disk.

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>

### WEB_COULDN'T_START_HTTPD
System Log Message: Could not fork httpd process!
Description: The Web management gatekeeper process (httpd-gk) could not start the web management process (httpd).

<table>
<thead>
<tr>
<th>Type</th>
<th>Error: An error occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_DAEMON</td>
</tr>
</tbody>
</table>
### WEB_EVENTLIB_INIT

**System Log Message**  
Unable to initialize event library: *error-message*

**Description**  
The Web management gatekeeper process (httpd-gk) attempted to initialize the event library during startup. The attempt failed for the indicated reason.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### WEB_KEYPAIR_FILE_NOT_FOUND

**System Log Message**  
Could not find key pair file 'filename', disabling HTTPS

**Description**  
http-gk could not open the configured HTTPS key pair file for reading.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### WEB_MGD_BIND_ERROR

**System Log Message**  
Could not bind mgd listener socket: *error-message*

**Description**  
The web management process could not open the MGD listening socket.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### WEB_MGD_CHMOD_ERROR

**System Log Message**  
Could not chmod mgd listener socket

**Description**  
The web management process could not change the MGD listening socket to proper file permissions.

**Type**  
Error: An error occurred

**Severity**  
error

**Facility**  
LOG_DAEMON

### WEB_MGD_CONNECT_ERROR

**System Log Message**  
Could not connect to mgd management socket

**Description**  
The web management process could not connect to the MGD management socket.

**Type**  
Error: An error occurred
Severity error
Facility LOG_DAEMON

WEB_MGD_FCNTL_ERROR
System Log Message Could not set incoming mgd request to nonblocking
Description The web management process could not set the MGD listening socket to nonblocking.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

WEB_MGD_LISTEN_ERROR
System Log Message Could not listen mgd listener socket: error-message
Description The web management process could not open the MGD listening socket.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON
Action For more information, see KB19134.

WEB_MGD_RECVMSG_PEEK_ERROR
System Log Message Could not peek recvmsg() mgd connection
Description The web management process could not peek the incoming MGD request.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

WEB_MGD_SOCKET_ERROR
System Log Message Could not create mgd listener socket
Description The web management process could not open the MGD listening socket.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

WEB_PIDFILE_LOCK
System Log Message Unable to lock PID file pathname: error-message
| Description | The Web management gatekeeper process (httpd-gk) attempted to lock the indicated file, which records its process ID (PID). The file serves to prevent multiple instances of httpd-gk from running simultaneously. The attempt failed for the indicated reason. |
| Type | Error: An error occurred |
| Severity | error |
| Facility | LOG_DAEMON |

**WEB_PIDFILE_UPDATE**

| System Log Message | Unable to update PID file *pathname*: *error-message* |
| Description | The Web management gatekeeper process (httpd-gk) attempted to update the indicated file, which records the process ID (PID) of the running httpd-gk process. The file serves to prevent multiple instances of httpd-gk from running simultaneously. The attempt failed for the indicated reason. |
| Type | Error: An error occurred |
| Severity | error |
| Facility | LOG_DAEMON |
| Cause | The most common reason is that another httpd-gk process was already running. |

**WEB_UNAME_FAILED**

| System Log Message | Unable to retrieve system hostname: *error-message* |
| Description | The Web management gatekeeper process (httpd-gk) attempted to retrieve and store the local hostname, which it shares with its remote clients. The attempt failed for the indicated reason. |
| Type | Error: An error occurred |
| Severity | error |
| Facility | LOG_DAEMON |

**WEB_WEBAUTH_AUTH_FAIL**

| System Log Message | Web-authentication of user *username* with fwauthd failed |
| Description | The web-authentication authentication process was unable to authenticate the indicated user |
| Type | Event: This message reports an event, not an error |
| Severity | notice |
| Facility | LOG_DAEMON |

**WEB_WEBAUTH_AUTH_OK**

| System Log Message | Web-authentication of user *username* with fwauthd successful |
### Description
The web-authentication authentication process was able to authenticate the indicated user successfully

**Type**  
Event: This message reports an event, not an error

**Severity**  
notice

**Facility**  
LOG_DAEMON

---

### WEB_WEBAUTH_CONNECT_FAIL

**System Log Message**  
Unable to connect to fwauthd on socket file-descriptor: error-message

**Description**  
The web-authentication authentication process could not connect to fwauthd daemon on the indicated socket

**Type**  
Event: This message reports an event, not an error

**Severity**  
error

**Facility**  
LOG_DAEMON
This chapter describes messages with the `WEBFILTER` prefix. They are generated by the web filtering process (`webfilter`) which allows you to manage Internet usage by preventing access to inappropriate web content.

### WEBFILTER_CACHE_NOT_ENABLED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Failed to enable the web-filtering category cache</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Failed to enable the category cache for web-filtering</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_FIREWALL</td>
</tr>
<tr>
<td>Cause</td>
<td>Temporarily out of system memory</td>
</tr>
<tr>
<td>Action</td>
<td>No recommended action. For more information, see KB19136.</td>
</tr>
</tbody>
</table>

### WEBFILTER_INTERNAL_ERROR

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Error encountered: <code>error-message</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>An error is encountered in a periodical task or during a server update</td>
</tr>
<tr>
<td>Type</td>
<td>Event: This message reports an event, not an error</td>
</tr>
<tr>
<td>Severity</td>
<td>error</td>
</tr>
<tr>
<td>Facility</td>
<td>LOG_FIREWALL</td>
</tr>
<tr>
<td>Cause</td>
<td>An error is encountered in a periodical task or during a server update</td>
</tr>
<tr>
<td>Action</td>
<td>No recommended action</td>
</tr>
</tbody>
</table>

### WEBFILTER_REQUEST_NOT_CHECKED

<table>
<thead>
<tr>
<th>System Log Message</th>
<th>Error encountered: server down, failed to check request <code>error-message</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Web-filtering failed to check a web request,</td>
</tr>
</tbody>
</table>
WEBFILTER_SERVER_CONNECTED

System Log Message: Successfully connected to webfilter server *name*

Description: Client successfully connected to web server

WEBFILTER_SERVER_DISCONNECTED

System Log Message: Webfilter: server *name* disconnected

Description: A socket error is encountered upon connecting to a web server

WEBFILTER_SERVER_ERROR

System Log Message: WebFilter: An error is received from server *name* (0x*status-code*): *error-message*

Description: An error status is received from web server
### WEBFILTER_URL_BLOCKED

**System Log Message**

```
WebFilter: ACTION="URL Blocked"
source-address(source-port)->destination-address(destination-port) CATEGORY="name"
REASON="error-message" PROFILE="profile-name" URL=object-name OBJ=pathname
```

**Description**

A web request is blocked

**Type**

Event: This message reports an event, not an error

**Severity**

warning

**Facility**

LOG_FIREWALL

**Cause**

A web request is blocked

**Action**

No recommended action

### WEBFILTER_URL_PERMITTED

**System Log Message**

```
WebFilter: ACTION="URL Permitted"
source-address(source-port)->destination-address(destination-port) CATEGORY="name"
REASON="error-message" PROFILE="profile-name" URL=object-name OBJ=pathname
```

**Description**

A web request is permitted

**Type**

Event: This message reports an event, not an error

**Severity**

info

**Facility**

LOG_FIREWALL

**Cause**

A web request is permitted

**Action**

No recommended action

### WEBFILTER_URL_REDIRECTED

**System Log Message**

```
WebFilter: ACTION="URL Redirected"
source-address(source-port)->destination-address(destination-port) CATEGORY="name"
REASON="error-message" PROFILE="profile-name" URL=object-name OBJ=pathname&response
```

**Description**

A web request is redirected

**Type**

Event: This message reports an event, not an error

**Severity**

info

**Facility**

LOG_FIREWALL

**Cause**

A web request is redirected

**Action**

No recommended action
PART 3

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