



Junos[®] OS

System Log Messages Reference

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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 lix](#)
- [Objectives on page lx](#)
- [Audience on page lx](#)
- [Supported Platforms on page lx](#)
- [Using the Examples in This Manual on page lxi](#)
- [Documentation Conventions on page lxii](#)
- [Documentation Feedback on page lxiv](#)
- [Requesting Technical Support on page lxiv](#)

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

- MX Series
- SRX Series
- T Series
- EX 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.xml;
}
```

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 lxii defines notice icons used in this guide.

Table 1: Notice Icons





Icon	Meaning	Description
	Informational note	Indicates important features or instructions.
	Caution	Indicates a situation that might result in loss of data or hardware damage.
	Warning	Alerts you to the risk of personal injury or death.
	Laser warning	Alerts you to the risk of personal injury from a laser.

Table 2 on page lxiii defines the text and syntax conventions used in this guide.

Table 2: Text and Syntax Conventions

Convention	Description	Examples
Bold text like this	Represents text that you type.	To enter configuration mode, type the configure command: user@host> configure
Fixed-width text like this	Represents output that appears on the terminal screen.	user@host> show chassis alarms No alarms currently active
<i>Italic text like this</i>	<ul style="list-style-type: none"> Introduces or emphasizes important new terms. Identifies book names. Identifies RFC and Internet draft titles. 	<ul style="list-style-type: none"> A policy <i>term</i> is a named structure that defines match conditions and actions. <i>Junos OS System Basics Configuration Guide</i> RFC 1997, <i>BGP Communities Attribute</i>
<i>Italic text like this</i>	Represents variables (options for which you substitute a value) in commands or configuration statements.	Configure the machine's domain name: [edit] root@# set system domain-name <i>domain-name</i>
Text like this	Represents names of configuration statements, commands, files, and directories; configuration hierarchy levels; or labels on routing platform components.	<ul style="list-style-type: none"> To configure a stub area, include the stub statement at the [edit protocols ospf area area-id] hierarchy level. The console port is labeled CONSOLE.
< > (angle brackets)	Enclose optional keywords or variables.	stub <default-metric metric>;
(pipe symbol)	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.	broadcast multicast (string1 string2 string3)
# (pound sign)	Indicates a comment specified on the same line as the configuration statement to which it applies.	rsvp { # Required for dynamic MPLS only
[] (square brackets)	Enclose a variable for which you can substitute one or more values.	community name members [<i>community-ids</i>]
Indentation and braces ({ })	Identify a level in the configuration hierarchy.	[edit] routing-options { static { route default { nexthop <i>address</i> ; retain; } } }
;(semicolon)	Identifies a leaf statement at a configuration hierarchy level.	

J-Web GUI Conventions

Table 2: Text and Syntax Conventions (*continued*)

Convention	Description	Examples
Bold text like this	Represents J-Web graphical user interface (GUI) items you click or select.	<ul style="list-style-type: none"> In the Logical Interfaces box, select All Interfaces. To cancel the configuration, click Cancel.
> (bold right angle bracket)	Separates levels in a hierarchy of J-Web selections.	In the configuration editor hierarchy, select Protocols>Ospf .

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 policies—For a complete understanding of our JTAC procedures and policies, review the JTAC User Guide located at <http://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <http://www.juniper.net/support/warranty/>.
- 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 router, including the following:

- Routine operations, such as creation of an Open Shortest Path First (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 router 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. For detailed information about specific system log messages, see the *Junos OS System Log Messages Reference*.



NOTE: This topic describes system log messages for Junos OS processes and libraries and not the system logging services on a Physical Interface Card (PIC) such as the Adaptive Services PIC. For information about configuring system logging for PIC services, see the Junos Services Interfaces Configuration Release 12.3.

This chapter discusses the following topics:

- [Junos OS System Log Configuration Hierarchy on page 3](#)
- [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 TX Matrix Router on page 32](#)
- [Displaying and Interpreting System Log Messages on page 50](#)
- [Getting Help About System Log Messages on page 61](#)

Junos OS System Log Configuration Hierarchy

To configure the router 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;
    archive <archive-sites {ftp-url <password password>}> <files number> <size size>
      <start-time "YYYY-MM-DD.hh:mm"> <transfer-interval minutes> <world-readable |
      no-world-readable>;
    explicit-priority;
    match "regular-expression";
    structured-data {
      brief;
    }
  }
}
host (hostname | other-routing-engine | scc-master) {
  facility severity;
  explicit-priority;
  facility-override facility;
  log-prefix string;
  match "regular-expression";
  source-address source-address;
  structured-data {
    brief;
  }
}
source-address source-address;
time-format (year | millisecond | year millisecond);
user (username | *) {
  facility severity;
  match "regular-expression";
}
}
```

Related Documentation

- [Junos OS System Log Configuration Overview](#)

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:

- [Junos OS Minimum System Logging Configuration on page 4](#)
- [Junos OS Default System Log Settings on page 5](#)
- [Junos OS Platform-Specific Default System Log Messages on page 6](#)

Junos OS 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](#). For more information about the configuration statements, see Single-Chassis System Logging Configuration Overview.

Table 3: Minimum Configuration Statements for System Logging

Destination	Minimum Configuration Statements
File	<code>[edit system syslog] file <i>filename</i> { <i>facility severity</i>; }</code>
Terminal session of one, several, or all users	<code>[edit system syslog] user (<i>username</i> *) { <i>facility severity</i>; }</code>
Router or switch console	<code>[edit system syslog] console { <i>facility severity</i>; }</code>
Remote machine or the other Routing Engine on the router or switch	<code>[edit system syslog] host (<i>hostname</i> other-routing-engine) { <i>facility severity</i>; }</code>

Related Documentation

- [Junos OS System Log Configuration Overview](#)
- [Overview of Junos OS System Log Messages](#)
- [Overview of Single-Chassis System Logging Configuration](#)

Junos OS Default System Log Settings

[Table 4 on page 5](#) summarizes the default system log settings that apply to all routers 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

Setting	Default	Overriding Statement	Instructions
Alternative facility for message forwarded to a remote machine	For change-log : local6 For conflict-log : local5 For dfc : local1 For firewall : local3 For interactive-commands : local7 For pfe : local4	<code>[edit system syslog] host <i>hostname</i> { facility-override <i>facility</i>; }</code>	“Changing the Alternative Facility Name for Remote System Log Messages” on page 15
Format of messages logged to a file	Standard Junos format, based on UNIX format	<code>[edit system syslog] file <i>filename</i> { structured-data; }</code>	“Logging Messages in Structured-Data Format” on page 12

Table 4: Default System Logging Settings (*continued*)

Setting	Default	Overriding Statement	Instructions
Maximum number of files in the archived set	10	<pre>[edit system syslog] archive { files <i>number</i>; } file <i>filename</i> { archive { files <i>number</i>; } }</pre>	“Specifying Log File Size, Number, and Archiving Properties” on page 20
Maximum size of the log file	J Series: 128 kilobytes (KB) M Series, MX Series, and T Series: 1 megabyte (MB) TX Matrix: 10 MB	<pre>[edit system syslog] archive { size <i>size</i>; } file <i>filename</i> { archive { size <i>size</i>; } }</pre>	“Specifying Log File Size, Number, and Archiving Properties” on page 20
Timestamp format	Month, date, hour, minute, second For example: Aug 21 12:36:30	<pre>[edit system syslog] time-format <i>format</i>;</pre>	“Including the Year or Millisecond in Timestamps” on page 25
Users who can read log files	root user and users with the Junos maintenance permission	<pre>[edit system syslog] archive { world-readable; } file <i>filename</i> { archive { world-readable; } }</pre>	“Specifying Log File Size, Number, and Archiving Properties” on page 20

- [Junos OS System Log Configuration Overview](#)
- [Junos OS Platform-Specific Default System Log Messages on page 6](#)

Junos OS Platform-Specific Default System Log Messages

The following messages are generated by default on specific routers. To view any of these types of messages, you must configure at least one destination for messages as described in [“Junos OS Minimum System Logging Configuration” on page 4](#).

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

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

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

```
}
```

- On a routing matrix composed of a TX Matrix router and T640 routers, the master Routing Engine on each T640 router forwards all messages with a severity of **info** and higher to the master Routing Engine on the TX Matrix router. This is equivalent to the following configuration statement included on the TX Matrix router:

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

- Likewise, on a routing matrix composed of a TX Matrix Plus router with connected T1600 or T4000 routers, the master Routing Engine on each T1600 or T4000 LCC forwards to the master Routing Engine on the TX Matrix Plus router all messages with a severity of **info** and higher. This is equivalent to the following configuration statement included on the TX Matrix Plus router:



NOTE: From the perspective of the user interface, the routing matrix appears as a single router. The TX Matrix Plus router controls all the T1600 or T4000 routers connected to it in the routing matrix.

```
[edit system syslog]
host sfc0-master {
  any info;
}
```

Related Documentation

- [Junos OS System Log Configuration Overview](#)
- [Junos OS Default System Log Settings on page 5](#)
- [Routing Matrix with a TX Matrix Plus Router Solutions Page](#)

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 12](#).
- 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 System Log Messages to a User Terminal” on page 13](#).
- To the routing platform console, by including the **console** statement. See [“Directing System Log Messages to the Console” on page 13](#).
- 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 Based on the TX Matrix Router” on page 38](#).

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 56](#), [“Interpreting Messages Generated in Standard Format by Services on a PIC” on page 57](#), and [“Interpreting Messages Generated in Structured-Data Format” on page 52](#). 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 12](#).
- 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 22](#).
- 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 25](#).
- 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 Based on the TX Matrix Router” on page 38](#).
- 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 26](#).

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 System Log Messages to a Log File on page 11](#)
- [Logging Messages in Structured-Data Format on page 12](#)
- [Directing System Log Messages to a User Terminal on page 13](#)
- [Directing System Log Messages to the Console on page 13](#)
- [Directing Messages to a Remote Machine or the Other Routing Engine on page 14](#)
- [Specifying Log File Size, Number, and Archiving Properties on page 20](#)
- [Including Priority Information in System Log Messages on page 22](#)
- [System Log Facility Codes and Numerical Codes Reported in Priority Information on page 23](#)
- [Including the Year or Millisecond in Timestamps on page 25](#)
- [Using Regular Expressions to Refine the Set of Logged Messages on page 26](#)
- [Junos System Log Regular Expression Operators for the match Statement on page 28](#)
- [Disabling the System Logging of a Facility on page 28](#)
- [Examples: Configuring System Logging on page 29](#)

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 System Log Messages to a User Terminal” on page 13](#), and, [“Directing System Log Messages to the Console” on page 13](#).

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 10 lists the Junos system logging facilities that you can specify in configuration statements at the **[edit system syslog]** hierarchy level.

Table 5: Junos OS System Logging Facilities

Facility	Type of Event or Error
any	All (messages from all facilities)
authorization	Authentication and authorization attempts
change-log	Changes to the Junos OS configuration
conflict-log	Specified configuration is invalid on the router type
daemon	Actions performed or errors encountered by system processes
dfc	Events related to dynamic flow capture
firewall	Packet filtering actions performed by a firewall filter
ftp	Actions performed or errors encountered by the FTP process
interactive-commands	Commands issued at the Junos OS command-line interface (CLI) prompt or by a client application such as a Junos XML protocol or NETCONF XML client
kernel	Actions performed or errors encountered by the Junos OS kernel
pfe	Actions performed or errors encountered by the Packet Forwarding Engine
user	Actions performed or errors encountered by user-space processes

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 the System Logging of a Facility” on page 28.

Table 6: System Log Message Severity Levels

Severity Level	Description
any	Includes all severity levels
none	Disables logging of the associated facility to a destination
emergency	System panic or other condition that causes the router to stop functioning

Table 6: System Log Message Severity Levels (*continued*)

Severity Level	Description
alert	Conditions that require immediate correction, such as a corrupted system database
critical	Critical conditions, such as hard errors
error	Error conditions that generally have less serious consequences than errors at the emergency, alert, and critical levels
warning	Conditions that warrant monitoring
notice	Conditions that are not errors but might warrant special handling
info	Events or nonerror conditions of interest

Related Documentation

- Single-Chassis System Logging Configuration Overview
- Overview of Single-Chassis System Logging Configuration
- [Examples: Configuring System Logging on page 29](#)

Directing System Log 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;
    archive <archive-sites (ftp-url <password password>)> <files number> <size size>
        <start-time "YYYY-MM-DD.hh:mm"> <transfer-interval minutes> <world-readable |
        no-world-readable>;
    explicit-priority;
    match "regular-expression";
    structured-data {
        brief;
    }
}
```

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 [“Specifying Log File Size, Number, and Archiving Properties” on page 20](#).

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

- **explicit-priority**—See “Including Priority Information in System Log Messages” on page 22
- **match**—See “Using Regular Expressions to Refine the Set of Logged Messages” on page 26
- **structured-data**—See “Logging Messages in Structured-Data Format” on page 12

Related Documentation

- Single-Chassis System Logging Configuration Overview
- Overview of Junos OS System Log Messages
- Logging Messages in Structured-Data Format
- [Examples: Configuring System Logging on page 29](#)
- Examples: Configuring System Logging

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.

The structured-data format complies with Internet draft draft-ietf-syslog-protocol-23, *The syslog Protocol*, which is at <http://tools.ietf.org/html/draft-ietf-syslog-protocol-23>. The draft establishes a standard message format regardless of the source or transport protocol for logged messages.

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 on page 29](#)

Directing System Log 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 logging 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 26.

- Related Documentation**
- [Single-Chassis System Logging Configuration Overview](#)
 - [Overview of Single-Chassis System Logging Configuration](#)
 - [Examples: Configuring System Logging on page 29](#)
 - [Examples: Configuring System Logging](#)

Directing System Log 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 logging facilities and severity levels, see “[Specifying the Facility and Severity of Messages to Include in the Log](#)” on page 9.

- Related Documentation**
- [Single-Chassis System Logging Configuration Overview](#)
 - [Overview of Single-Chassis System Logging Configuration](#)
 - [Examples: Configuring System Logging on page 29](#)
 - [Examples: Configuring System Logging](#)

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";
}
source-address source-address;
```

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 22](#).

For information about the **match** statement, see [“Using Regular Expressions to Refine the Set of Logged Messages” on page 26](#).

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 15](#)
- [Changing the Alternative Facility Name for Remote System Log Messages on page 15](#)
- [System Log Default Facilities for Messages Directed to a Remote Destination on page 17](#)
- [Junos OS System Log Alternate Facilities for Remote Logging on page 17](#)

- [Examples: Assigning an Alternative Facility on page 18](#)
- [Adding a Text String to System Log Messages on page 19](#)
- [Adding a String on page 20](#)

Specifying an Alternative Source Address for System Log Messages

To specify the source router to be reported in system log messages when the messages 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 router 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.

Related Documentation

- [Single-Chassis System Logging Configuration Overview](#)
- [Examples: Assigning an Alternative Facility on page 18](#)

Changing the Alternative Facility Name for Remote System Log Messages

Some facilities assigned to messages logged on the local router or switch have Junos OS-specific names (see Junos OS System Logging Facilities and Message Severity Levels). In the recommended configuration, a remote machine designated at the **[edit system syslog host hostname]** hierarchy level is not a Juniper Networks router or switch, so its syslogd utility cannot interpret the Junos OS-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 OS-specific facility name.

[Table 7 on page 17](#) lists the default alternative facility name next to the Junos OS-specific facility name it is used for.

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 router or switch or the remote machine itself). For example, the following statements in the configuration of the router called **local-router** direct messages from the **authorization** facility to the remote machine *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**, then the file contains 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 17](#) lists the facilities that you can specify in the **facility-override** statement.

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 OS system logging utility can interpret the Junos OS-specific names.

The following example shows how to log all messages generated on the local router 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;  
}
```

The following example shows how to configure routers located in California and routers located in New York to send messages to a single remote machine called **central-logger.mycompany.com**. The messages from California are assigned to alternative facility **local0** and the messages from New York are assigned to alternative facility **local2**.

- Configure California routers to aggregate messages in the local0 facility:

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

- Configure New York routers 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 **change-log** and the messages from the local2 facility to the file **new-york-config**.

Related Documentation

- [Table 7 on page 17](#)
- [Junos OS System Log Alternate Facilities for Remote Logging on page 17](#)
- [Examples: Assigning an Alternative Facility on page 18](#)
- [Examples: Assigning an Alternative Facility](#)

System Log Default Facilities for Messages Directed to a Remote Destination

[Table 7 on page 17](#) lists the default alternative facility name next to the Junos OS-specific facility name for which it is used. 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

Junos OS-specific Local Facility	Default Facility When Directed to Remote Destination
change-log	local6
conflict-log	local5
dfc	local1
firewall	local3
interactive-commands	local7
pfe	local4

Related Documentation

- [Single-Chassis System Logging Configuration Overview](#)
- [Overview of Single-Chassis System Logging Configuration](#)

Junos OS System Log Alternate Facilities for Remote Logging

[Table 8 on page 17](#) lists the facilities that you can specify in the **facility-override** statement.

Table 8: Facilities for the facility-override Statement

Facility	Description
authorization	Authentication and authorization attempts
daemon	Actions performed or errors encountered by system processes
ftp	Actions performed or errors encountered by the FTP process

Table 8: Facilities for the facility-override Statement (*continued*)

Facility	Description
kernel	Actions performed or errors encountered by the Junos OS kernel
local0	Local facility number 0
local1	Local facility number 1
local2	Local facility number 2
local3	Local facility number 3
local4	Local facility number 4
local5	Local facility number 5
local6	Local facility number 6
local7	Local facility number 7
user	Actions performed or errors encountered by user-space processes

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 OS system logging utility can interpret the Junos OS-specific names.

Related Documentation

- [Examples: Assigning an Alternative Facility on page 18](#)
- [Single-Chassis System Logging Configuration Overview](#)
- [Overview of Single-Chassis System Logging Configuration](#)

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 on page 17](#)

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:

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

The string can contain any alphanumeric 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 OS system logging utility automatically appends a colon and a space to the specified string when the system log messages are written to the log. The string is inserted after the identifier for the Routing Engine that generated the message.

The following example shows how to 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:

```
[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'
```

Related Documentation

- Single-Chassis System Logging Configuration Overview
- [Specifying Log File Size, Number, and Archiving Properties on page 20](#)
- Overview of Single-Chassis System Logging Configuration

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:

```
[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'
```

Specifying Log File Size, Number, and Archiving Properties

To prevent log files from growing too large, by default the Junos system logging utility 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 EX Series switches and J Series routers
- 1 megabyte (MB) for M Series, MX Series, and T Series routers
- 10 MB for TX Matrix or TX Matrix Plus routers
- 1 MB for the QFX Series

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**. This process is also known as file rotation. 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 and when the size of the active file reaches the configured maximum size, the contents of the last archived file are overwritten by the current active 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 OS **maintenance** permission.

Junos OS provides a configuration statement **log-rotate-frequency** that configures the system log file rotation frequency by configuring the time interval for checking the log file size. The frequency can be set to a value of 1 minute through 59 minutes. The default frequency is 15 minutes.

To configure the log rotation frequency, include the **log-rotate-frequency** statement at the **[edit system syslog]** hierarchy level.

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:

```
archive <files number> <size size> <world-readable | no-world-readable>;
```

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

```
archive <archive-sites (ftp-url <password password>)> <files number> <size size>  
<start-time "YYYY-MM-DD.hh:mm"> <transfer-interval minutes> <world-readable |  
no-world-readable>;
```

archive-sites *site-name* specifies a list of archive sites that you want to use for storing files. The ***site-name*** value is any valid FTP URL to a destination. If more than one site name is configured, a list of archive sites for the system log files is created. When a file is archived, the router or switch attempts to transfer the file to the first URL in the list, moving to the next site only if the transfer does not succeed. The log file is stored at the archive site with the specified log filename. For information about how to specify valid FTP URLs, see Format for Specifying Filenames and URLs in Junos OS CLI Commands.

binary-data Mark file as containing binary data. This allows proper archiving of binary files, such as WTMP files (login records for UNIX based systems). To restore the default setting, include the **no-binary-data** statement.

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.

start-time "YYYY-MM-DD.hh:mm" defines the date and time in the local time zone for a one-time transfer of the active log file to the first reachable site in the list of sites specified by the **archive-sites** statement.

transfer-interval *interval* defines the amount of time the current log file remains open (even if it has not reached the maximum possible size) and receives new statistics before it is closed and transferred to an archive site. This interval value can be from 5 through 2880 minutes.

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

Related Documentation

- Single-Chassis System Logging Configuration Overview
- [Examples: Configuring System Logging on page 29](#)
- Overview of Single-Chassis System Logging Configuration

- [Routing Matrix with a TX Matrix Plus Router Solutions Page](#)

Including Priority Information in System Log Messages

The facility and severity level of a message are together referred to as its *priority*. By default, messages logged in the standard Junos OS 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. 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 12](#). For information about the contents of a structured-data message, see the *Junos OS System Log Messages Reference*.

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;
```



NOTE: The **other-routing-engine** option does not apply to the QFX Series.

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 OS system logging utility still uses the alternative facility name for the messages themselves when directing them to the remote destination. For more information, see [“Changing the Alternative Facility Name for Remote System Log Messages” on page 15](#).

When the **explicit-priority** statement is included, the Junos OS 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 OS system log messages; for more information, see the *Junos OS System Log Messages Reference*.)

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 the *Junos OS System Log Messages Reference*.

Related Documentation

- [Single-Chassis System Logging Configuration Overview](#)
- [Overview of Single-Chassis System Logging Configuration](#)
- [Examples: Configuring System Logging on page 29](#)

System Log Facility Codes and Numerical Codes Reported in Priority Information

[Table 9 on page 23](#) 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 23](#) 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 23](#)—and others that are not listed—when reporting on internal operations.

Table 9: Facility Codes Reported in Priority Information

Code	Junos Facility Name	Type of Event or Error
AUTH	authorization	Authentication and authorization attempts
AUTHPRIV		Authentication and authorization attempts that can be viewed by superusers only
CHANGE	change-log	Changes to the Junos configuration
CONFLICT	conflict-log	Specified configuration is invalid on the router type
CONSOLE		Messages written to <code>/dev/console</code> by the kernel console output r
CRON		Actions performed or errors encountered by the cron process
DAEMON	daemon	Actions performed or errors encountered by system processes

Table 9: Facility Codes Reported in Priority Information (*continued*)

Code	Junos Facility Name	Type of Event or Error
DFC	dfc	Actions performed or errors encountered by the dynamic flow capture process
FIREWALL	firewall	Packet filtering actions performed by a firewall filter
FTP	ftp	Actions performed or errors encountered by the FTP process
INTERACT	interactive-commands	Commands issued at the Junos OS CLI prompt or invoked by a client application such as a Junos XML protocol or NETCONF client
KERN	kernel	Actions performed or errors encountered by the Junos kernel
NTP		Actions performed or errors encountered by the Network Time Protocol (NTP)
PFE	pfe	Actions performed or errors encountered by the Packet Forwarding Engine
SYSLOG		Actions performed or errors encountered by the Junos system logging utility
USER	user	Actions performed or errors encountered by user-space processes

Table 10 on page 24 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

Numerical Code	Severity Level	Description
0	emergency	System panic or other condition that causes the router to stop functioning
1	alert	Conditions that require immediate correction, such as a corrupted system database
2	critical	Critical conditions, such as hard errors
3	error	Error conditions that generally have less serious consequences than errors in the emergency, alert, and critical levels
4	warning	Conditions that warrant monitoring
5	notice	Conditions that are not errors but might warrant special handling

Table 10: Numerical Codes for Severity Levels Reported in Priority Information (*continued*)

Numerical Code	Severity Level	Description
6	info	Events or nonerror conditions of interest
7	debug	Software debugging messages (these appear only if a technical support representative has instructed you to configure this severity level)

Related Documentation

- Single-Chassis System Logging Configuration Overview
- [Examples: Configuring System Logging on page 29](#)

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);
```

However, the timestamp for traceoption messages is specified in milliseconds by default, and is independent of the **[edit system syslog time-format]** statement.

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 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 12](#). For information about the contents of a structured-data message, see the *Junos OS System Log Messages Reference*.

- Related Documentation**
- Single-Chassis System Logging Configuration Overview
 - [Examples: Configuring System Logging on page 29](#)

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 26](#) 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

Operator	Matches
. (period)	One instance of any character except the space.
* (asterisk)	Zero or more instances of the immediately preceding term.
+ (plus sign)	One or more instances of the immediately preceding term.
? (question mark)	Zero or one instance of the immediately preceding term.
(pipe)	One of the terms that appears on either side of the pipe operator.

Table 11: Regular Expression Operators for the match Statement (*continued*)

Operator	Matches
! (exclamation point)	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.
^ (caret)	Start of a line, when the caret appears outside square brackets. One instance of any character that does not follow it within square brackets, when the caret is the first character inside square brackets.
\$ (dollar sign)	End of a line.
[] (paired square brackets)	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.
() (paired parentheses)	One instance of the evaluated value of the enclosed term. Parentheses are used to indicate the order of evaluation in the regular expression.

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.*)";
}
file snmpd-errors {
  daemon error;
  match ".*snmpd.*";
}
```

Related Documentation

- Single-Chassis System Logging Configuration Overview
- Overview of Single-Chassis System Logging Configuration

- [Examples: Configuring System Logging on page 29](#)
- [Examples: Configuring System Logging](#)

Junos System Log Regular Expression Operators for the match Statement

Table 12: Regular Expression Operators for the match Statement

Operator	Matches
.	(period) One instance of any character except the space.
*	(asterisk) Zero or more instances of the immediately preceding term.
+	(plus sign) One or more instances of the immediately preceding term.
?	(question mark) Zero or one instance of the immediately preceding term.
	(pipe) One of the terms that appear on either side of the pipe operator.
!	(exclamation point) 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.
^	(caret) The start of a line, when the caret appears outside square brackets. One instance of any character that does not follow it within square brackets, when the caret is the first character inside square brackets.
\$	(dollar sign) The end of a line.
[]	(paired square brackets) 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.
()	(paired parentheses) One instance of the evaluated value of the enclosed term. Parentheses are used to indicate the order of evaluation in the regular expression.

Related Documentation

- [Single-Chassis System Logging Configuration Overview](#)
- [Examples: Configuring System Logging on page 29](#)

Disabling the System 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;
}
```

Related Documentation

- Single-Chassis System Logging Configuration Overview
- Overview of Single-Chassis System Logging Configuration

Examples: Configuring System Logging

The following example shows how to configure the logging of messages about all commands entered by users at the CLI prompt or invoked by client applications such as Junos XML protocol or NETCONF client applications, 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;
  }
}
```

The following example shows how to configure the logging of all changes in the state of alarms to the file **/var/log/alarms**:

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

The following example shows how to 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;
}
}
```

The following example shows how to 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;
  }
}
```

- Related Documentation**
- [Single-Chassis System Logging Configuration Overview](#)

Configuring System Logging for a TX Matrix Router

To configure system logging for all routers in a routing matrix composed of a TX Matrix router and T640 routers, include the **syslog** statement at the **[edit system]** hierarchy level on the TX Matrix router. The **syslog** statement applies to every router in the routing matrix.

```
[edit system]
syslog {
  archive <files number> <size size <world-readable | no-world-readable>;
  console {
    facility severity;
  }
  file filename {
    facility severity;
    archive <archive-sites {ftp-url <password password>}> <files number> <size size>
      <start-time "YYYY-MM-DD.hh:mm"> <transfer-interval minutes> <world-readable |
      no-world-readable>;
    explicit-priority;
    match "regular-expression";
    structured-data {
      brief;
    }
  }
}
host (hostname | other-routing-engine | scc-master) {
  facility severity;
  explicit-priority;
  facility-override facility;
  log-prefix string;
  match "regular-expression";
  source-address source-address;
  port port number;
}
source-address source-address;
time-format (year | millisecond | year millisecond);
(username | *) {
  facility severity;
  match "regular-expression";
}
}
```

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

- **archive**—Sets the size and number of log files on each platform in the routing matrix. See [“Specifying Log File Size, Number, and Archiving Properties” on page 20](#).
- **console**—Directs the specified messages to the console of each platform in the routing matrix. See [“Directing System Log Messages to the Console” on page 13](#).
- **file**—Directs the specified messages to a file of the same name on each platform in the routing matrix. See [“Directing System Log Messages to a Log File” 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 26](#).

The separate **match** statement at the **[edit system syslog host scc-master]** hierarchy level applies to messages forwarded from the T640 routers to the TX Matrix router. See [Configuring Optional Features for Forwarded Messages on a TX Matrix Router](#).

- **port**—Specifies the port number of the remote syslog server.
- **source-address**—Sets the IP address of the router 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. On a routing matrix composed of a TX Matrix router and T640 routers, the address is not reported by the T640 routers in messages directed to the other Routing Engine on each router or to the TX Matrix router. See [“Specifying an Alternative Source Address for System Log Messages” on page 15](#).
- **structured-data**—Writes messages to a file in structured-data format. See [“Logging Messages in Structured-Data Format” on page 12](#).
- **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 25](#).
- **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 System Log Messages to a User Terminal” on page 13](#).

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 34](#)
- [Configuring Optional Features for Forwarded Messages on page 37](#)
- [Directing Messages to a Remote Destination from the Routing Matrix Based on the TX Matrix Router on page 38](#)
- [Configuring System Logging Differently on Each T640 Router in a Routing Matrix on page 39](#)
- [Configuring System Logging for a TX Matrix Plus Router on page 41](#)
- [Configuring Message Forwarding to the TX Matrix Plus Router on page 43](#)
- [Impact of Different Local and Forwarded Severity Levels on System Log Messages on a TX Matrix Plus Router on page 44](#)
- [Configuring Optional Features for Forwarded Messages on a TX Matrix Plus Router on page 46](#)
- [Directing Messages to a Remote Destination from the Routing Matrix Based on a TX Matrix Plus Router on page 47](#)
- [Configuring System Logging Differently on Each T1600 or T4000 Router in a Routing Matrix on page 49](#)

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:

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

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

```
[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 System Log Messages to a User Terminal” on page 13](#).
- To the console, as described in [“Directing System Log Messages to the Console” on page 13](#).
- 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 Based on the TX Matrix Router” on page 38](#).

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.)

- [Impact of Different Local and Forwarded Severity Levels on System Log Messages on a TX Matrix Router on page 35](#)

Impact of Different Local and Forwarded Severity Levels on System Log Messages on a TX Matrix Router

This topic describes the impact of different local and forwarded severity levels configured for system log messages on a TX Matrix router:

- [Messages Logged When the Local and Forwarded Severity Levels Are the Same on page 35](#)
- [Messages Logged When the Local Severity Level Is Lower on page 35](#)
- [Messages Logged When the Local Severity Level Is Higher on page 36](#)

Messages Logged When the Local and Forwarded Severity Levels Are the Same

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

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

[Table 13 on page 35](#) specifies which messages are included in the logs on the T640 routers and the TX Matrix router.

Table 13: Example: Local and Forwarded Severity Level Are Both info

Log Location	Source of Messages	Lowest Severity Included
T640 router	Local	info
TX Matrix router	Local	info
	Forwarded from T640 routers	info

Messages Logged When the Local Severity Level Is Lower

When the severity level is lower for local messages than for forwarded messages, the log on the TX Matrix router 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, on a TX Matrix router, 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 14 on page 36 specifies which messages in a routing matrix are included in the logs on the T640 routers and the TX Matrix router. The T640 routers forward only those messages with severity **critical** and higher, so the log on the TX Matrix router does not include the messages with severity **error**, **warning**, or **notice** that the T640 routers log locally.

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

Log Location	Source of Messages	Lowest Severity Included
T640 router	Local	notice
TX Matrix router	Local	notice
	Forwarded from T640 routers	critical

Messages Logged When the Local Severity Level Is Higher

When the severity level is higher for local messages than for forwarded messages, the log on the TX Matrix router 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 15 on page 36 specifies which messages are included in the logs on the T640 routers and the TX Matrix router. Although the T640 routers forward messages with severity **notice** and higher, the TX Matrix router 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 15: Example: Local Severity Is critical, Forwarded Severity Is notice

Log Location	Source of Messages	Lowest Severity Included
T640 router	Local	critical
TX Matrix router	Local	critical
	Forwarded from T640 routers	critical

Related Documentation

- [Configuring System Logging for a TX Matrix Router](#)

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.

```
[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 System Log Messages” on page 15](#).

1. [Including Priority Information in Forwarded Messages on page 37](#)
2. [Adding a Text String to Forwarded Messages on page 38](#)
3. [Using Regular Expressions to Refine the Set of Forwarded Messages on page 38](#)

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 Based on the TX Matrix Router” on page 38](#).

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.

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

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 19](#).

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 nodes 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 26](#).

Directing Messages to a Remote Destination from the Routing Matrix Based on the TX Matrix Router

You can configure a routing matrix composed of a TX Matrix router and T640 routers to direct system logging messages to a remote machine or the other Routing Engine on each router, just as on a single-chassis system. Include the **host** statement at the `[edit system syslog]` hierarchy level on the TX Matrix router:

```
[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 router 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 more information, see [Directing System Log Messages to a Remote Machine or the Other Routing Engine](#).

For the TX Matrix router to include priority information when it directs messages that originated on a T640 router 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 routers to the TX Matrix router. 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 router 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 router.

Because the configuration on the TX Matrix router applies to the T640 routers, any T640 router that has interfaces for direct access to the Internet also directs messages to the remote machine. The consequences include the following:

- If the T640 routers are configured to forward messages to the TX Matrix router (as in the default configuration), the remote machine receives two copies of some messages: one directly from the T640 router and the other from the TX Matrix router. Which messages are duplicated depends on whether the severities are the same for local logging and for forwarded messages. For more information, see *Configuring Message Forwarding to the TX Matrix Router*.
- If the **source-address** statement is configured at the **[edit system syslog]** hierarchy level, all routers in the routing matrix report the same source address in messages directed to the remote machine. This is appropriate, because the routing matrix functions as a single router.
- If the **log-prefix** statement is included, the messages from all routers in the routing matrix include the same text string. You cannot use the string to distinguish between the routers in the routing matrix.

Related Documentation

- *Configuring System Logging for a TX Matrix Router*

Configuring System Logging Differently on Each T640 Router in a Routing Matrix

We recommend that all routers in a routing matrix composed of a TX Matrix router and T640 routers use the same configuration, which implies that you include system logging configuration statements on the TX Matrix router only. In rare circumstances, however, you might choose to log different messages on different routers. For example, if one router in the routing matrix is experiencing problems with authentication, a Juniper Networks support representative might instruct you to log messages from the **authorization** facility with severity **debug** on that router.

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

- To configure settings that apply to the TX Matrix router but not the T640 routers, include them in the **re0** and **re1** configuration groups.
- To configure settings that apply to particular T640 routers, include them in the **lccn-re0** and **lccn-re1** configuration groups, where **n** is the line-card chassis (LCC) index number of the router.

When you use configuration groups, do not issue CLI configuration-mode commands to change statements at the **[edit system syslog]** hierarchy level on the TX Matrix router. If you do, the resulting statements overwrite the statements defined in configuration groups

and apply to the T640 routers also. (We further recommend that you do not issue CLI configuration-mode commands on the T640 routers at any time.)

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

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

- On the TX Matrix router, local messages with severity **info** and higher from all facilities. The file does not include messages from the T640 routers, because the **host scc-master** statement disables message forwarding.
- On the T640 router designated **LCC0**, messages from the **authorization** facility with severity **info** and higher.
- On the T640 router 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;
      }
    }
  }
}
lcc1-re1 {
```

```

... same statements as for lcc1-re0 ...
}

```

Related Documentation

- [Configuring System Logging for a TX Matrix Router](#)

Configuring System Logging for a TX Matrix Plus Router

From the perspective of the user interface, the routing matrix appears as a single router. The TX Matrix Plus router (also called the switch-fabric chassis SFC) controls all the T1600 or T4000 routers (also called the line-card chassis LCC) in the routing matrix.

To configure system logging for all routers in a routing matrix composed of a TX Matrix Plus router with connected T1600 or T4000 LCCs, include the **syslog** statement at the **[edit system]** hierarchy level on the SFC. The **syslog** statement applies to every router in the routing matrix.

```

[edit system]
syslog {
  archive <files number> <size size> <world-readable | no-world-readable>;
  console {
    facility severity;
  }
  file filename {
    facility severity;
    archive <archive-sites {ftp-url <password password>}> <files number> <size size>
      <start-time "YYYY-MM-DD.hh:mm"> <transfer-interval minutes> <world-readable |
      no-world-readable>;
    explicit-priority;
    match "regular-expression";
    structured-data {
      brief;
    }
  }
}
host (hostname | other-routing-engine | sfc0-master) {
  facility severity;
  explicit-priority;
  facility-override facility;
  log-prefix string;
  match "regular-expression";
}
source-address source-address;
time-format (year | millisecond | year millisecond);
(username | *) {
  facility severity;
  match "regular-expression";
}
}

```

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

- **archive**—Sets the size and number of log files on each router in the routing matrix. See [“Specifying Log File Size, Number, and Archiving Properties” on page 20](#).
- **console**—Directs the specified messages to the console of each router in the routing matrix. See [“Directing System Log Messages to the Console” on page 13](#).
- **file**—Directs the specified messages to a file of the same name on each router in the routing matrix. See [“Directing System Log Messages to a Log File” 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 26](#).

The separate **match** statement at the **[edit system syslog host sfc0-master]** hierarchy level applies to messages forwarded from the T1600 or T4000 LCCs to the SFC. See [“Configuring Optional Features for Forwarded Messages on a TX Matrix Plus Router” on page 46](#).

- **source-address**—Sets the IP address of the router as the message source in system log messages when the messages are directed to the remote machines specified in all **host hostname** statements at the **[edit system syslog]** hierarchy level, for each router in the routing matrix. On a routing matrix composed of a TX Matrix Plus router with connected T1600 or T4000 LCCs, the address is not reported by the T1600 or T4000 routers in messages directed to the other Routing Engine on each router or to the TX Matrix Plus router. See [“Specifying an Alternative Source Address for System Log Messages” on page 15](#).
- **structured-data**—Writes messages to a file in structured-data format. See [“Logging Messages in Structured-Data Format” on page 12](#).
- **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 25](#).
- **user**—Directs the specified messages to the terminal session of one or more specified users on each router in the routing matrix that they are logged in to. See [“Directing System Log Messages to a User Terminal” on page 13](#).

The effect of the other statements differs somewhat for a routing matrix than for a single-chassis system.

Related Documentation

- [Configuring Message Forwarding to the TX Matrix Plus Router on page 43](#)
- [Impact of Different Local and Forwarded Severity Levels on System Log Messages on a TX Matrix Plus Router on page 44](#)
- [Configuring Optional Features for Forwarded Messages on a TX Matrix Plus Router on page 46](#)
- [Directing Messages to a Remote Destination from the Routing Matrix Based on a TX Matrix Plus Router on page 47](#)

- [Configuring System Logging Differently on Each T1600 or T4000 Router in a Routing Matrix on page 49](#)
- [Routing Matrix with a TX Matrix Plus Router Solutions Page](#)

Configuring Message Forwarding to the TX Matrix Plus Router

From the perspective of the user interface, the routing matrix appears as a single router. The TX Matrix Plus router (also called the switch-fabric chassis SFC) controls all the T1600 or T4000 routers (also called the line-card chassis LCC) in the routing matrix.

By default, the master Routing Engine on each connected T1600 or T4000 LCC forwards to the master Routing Engine on the SFC all messages from all facilities with severity level of **info** and higher. To change the facility, the severity level, or both, include the **host sfc0-master** statement at the **[edit system syslog]** hierarchy level on the SFC:

```
[edit system syslog]
host sfc0-master {
    facility severity;
}
```

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

```
[edit system syslog]
host sfc0-master {
    any none;
}
```

In either case, the setting applies to all connected LCCs in the routing matrix.

To capture the messages forwarded by the T1600 or T4000 LCCs (as well as messages generated on the SFC itself), you must also configure system logging on the SFC. Direct the messages to one or more destinations by including the appropriate statements at the **[edit system syslog]** hierarchy level on the SFC:

- To a file, as described in [“Directing System Log Messages to a Log File” on page 11](#).
- To the terminal session of one or more specific users (or all users), as described in [“Directing System Log Messages to a User Terminal” on page 13](#).
- To the console, as described in [“Directing System Log Messages to the Console” on page 13](#).
- 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 Based on a TX Matrix Plus Router” on page 47](#).

As previously noted, the configuration statements included on the SFC also configure the same destinations on each connected LCC.

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 sfc0-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.)

- Related Documentation**
- [Configuring System Logging for a TX Matrix Plus Router on page 41](#)
 - [Routing Matrix with a TX Matrix Plus Router Solutions Page](#)

Impact of Different Local and Forwarded Severity Levels on System Log Messages on a TX Matrix Plus Router

This topic describes the impact of different local and forwarded severity levels configured for the system log messages on a TX Matrix Plus router:

- [Messages Logged When the Local and Forwarded Severity Levels Are the Same on page 44](#)
- [Messages Logged When the Local Severity Level Is Lower on page 44](#)
- [Messages Logged When the Local Severity Level Is Higher on page 45](#)

Messages Logged When the Local and Forwarded Severity Levels Are the Same

When the severity level is the same for local and forwarded messages, the log on the TX Matrix Plus router contains all messages from the logs on the T1600 routers in the routing matrix. For example, you can specify severity **info** for the `/var/log/messages` file, which is the default severity level for messages forwarded by T1600 routers:

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

[Table 16 on page 44](#) specifies which messages in a routing matrix based on a TX Matrix Plus router are included in the logs on the T1600 routers and the TX Matrix Plus router:

Table 16: Example: Local and Forwarded Severity Level Are Both info

Log Location	Source of Messages	Lowest Severity Included
T1600 router	Local	info
TX Matrix Plus router	Local	info
	Forwarded from T1600 routers	info

Messages Logged When the Local Severity Level Is Lower

When the severity level is lower for local messages than for forwarded messages, the log on the TX Matrix Plus router 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, on a TX Matrix Plus router, 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 sfc0-master {
  any critical;
}
```

[Table 17 on page 45](#) specifies which messages in a routing matrix are included in the logs on the T1600 routers and the TX Matrix Plus router. The T1600 routers forward only those messages with severity **critical** and higher, so the log on the TX Matrix Plus router does not include the messages with severity **error**, **warning**, or **notice** that the T1600 routers log locally.

Table 17: Example: Local Severity Is notice, Forwarded Severity Is critical

Log Location	Source of Messages	Lowest Severity Included
T1600 router	Local	notice
TX Matrix Plus router	Local	notice
	Forwarded from T1600 routers	critical

Messages Logged When the Local Severity Level Is Higher

When the severity level is higher for local messages than for forwarded messages, the log on the TX Matrix Plus router 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 sfc0-master {
  any notice;
}
```

[Table 18 on page 46](#) specifies which messages are included in the logs on the T1600 routers and the TX Matrix Plus router. Although the T1600 routers forward messages with severity **notice** and higher, the TX Matrix Plus router 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 18: Example: Local Severity Is critical, Forwarded Severity Is notice

Log Location	Source of Messages	Lowest Severity Included
T1600 router	Local	critical
TX Matrix Plus router	Local	critical
	Forwarded from T1600 routers	critical

Related Documentation

- [Configuring System Logging for a TX Matrix Plus Router on page 41](#)

Configuring Optional Features for Forwarded Messages on a TX Matrix Plus Router

From the perspective of the user interface, the routing matrix appears as a single router. The TX Matrix Plus router (also called the switch-fabric chassis SFC) controls all the T1600 or T4000 routers (also called the line-card chassis LCC) in the routing matrix.

To configure additional optional features when specifying how the connected T1600 or T4000 LCCs forward messages to the SFC, include statements at the **[edit system syslog host sfc0-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.

```
[edit system syslog]
host sfc0-master {
    facility severity;
    explicit-priority;
    log-prefix string;
    match "regular-expression;
}
```

You can also include the **facility-override** statement at the **[edit system syslog host sfc0-master]** hierarchy level, but we do not recommend doing so. It is not necessary to use alternative facilities for messages forwarded to the SFC, because it runs the Junos system logging utility and can interpret the Junos OS-specific facilities. For more information about alternative facilities, see [“Changing the Alternative Facility Name for Remote System Log Messages” on page 15](#).

1. [Including Priority Information in Forwarded Messages on page 46](#)
2. [Adding a Text String to Forwarded Messages on page 47](#)
3. [Using Regular Expressions to Refine the Set of Forwarded Messages on page 47](#)

Including Priority Information in Forwarded Messages

When you include the **explicit-priority** statement at the **[edit system syslog host sfc0-master]** hierarchy level, messages forwarded to the TX Matrix Plus router (or the SFC) include priority information. For the information to appear in a log file on the SFC, you must also include the **explicit-priority** statement at the **[edit system syslog file**

filename] hierarchy level for the file on the SFC. 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 routers 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 Based on a TX Matrix Plus Router” on page 47](#).

In the following example, the **/var/log/messages** file on all routers includes priority information for messages with severity **notice** and higher from all facilities. The log on the TX Matrix Plus router SFC also includes messages with those characteristics forwarded from the connected T1600 or T4000 LCCs.

```
[edit system syslog]
host sfc0-master {
  any notice;
  explicit-priority;
}
file messages {
  any notice;
  explicit-priority;
}
```

Adding a Text String to Forwarded Messages

When you include the **log-prefix** statement at the **[edit system syslog host sfc0-master]** hierarchy level, the string that you define appears in every message forwarded to the TX Matrix Plus router. For more information, see [“Adding a Text String to System Log Messages” on page 19](#).

Using Regular Expressions to Refine the Set of Forwarded Messages

When you include the **match** statement at the **[edit system syslog host sfc0-master]** hierarchy level, the regular expression that you specify controls which messages from the connected T1600 or T4000 LCCs are forwarded to the TX Matrix Plus SFC. The regular expression is not applied to messages from the connected LCCs that are directed to destinations other than the SFC. For more information about regular expression matching, see [“Using Regular Expressions to Refine the Set of Logged Messages” on page 26](#).

Directing Messages to a Remote Destination from the Routing Matrix Based on a TX Matrix Plus Router

From the perspective of the user interface, the routing matrix appears as a single router. The TX Matrix Plus router (also called the switch-fabric chassis SFC) controls all the T1600 or T4000 routers also called the line-card chassis LCC) in the routing matrix.

You can configure a routing matrix composed of a TX Matrix Plus router with connected T1600 or T4000 LCCs to direct system logging messages to a remote machine or the other Routing Engine on each routing router, just as on a single-chassis system. Include the **host** statement at the **[edit system syslog]** hierarchy level on the SFC:

```
[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 Plus router 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 more information, see [Directing System Log Messages to a Remote Machine or the Other Routing Engine](#).

For the TX Matrix Plus router to include priority information when it directs messages that originated on a connected T1600 or T4000 LCC to the remote destination, you must also include the **explicit-priority** statement at the **[edit system syslog host sfc0-master]** hierarchy level.

The **other-routing-engine** statement does not interact with message forwarding from the connected T1600 or T4000 LCCs to the SFC. For example, if you include the statement in the configuration for the Routing Engine in slot 0 (**re0**), the **re0** Routing Engine on each connected T1600 or T4000 LCC sends messages to the **re1** Routing Engine on its router only. It does not also send messages directly to the **re1** Routing Engine on the SFC.

Because the configuration on the SFC applies to the connected T1600 or T4000 LCCs, any LCC that has interfaces for direct access to the Internet also directs messages to the remote machine. The consequences include the following:

- If the LCCs are configured to forward messages to the SFC (as in the default configuration), the remote machine receives two copies of some messages: one directly from the T1600 or T4000 LCC and the other from the SFC. Which messages are duplicated depends on whether the severities are the same for local logging and for forwarded messages. For more information, see ["Configuring Message Forwarding to the TX Matrix Plus Router" on page 43](#).
- If the **source-address** statement is configured at the **[edit system syslog]** hierarchy level, all routers in the routing matrix report the same source address in messages directed to the remote machine. This is appropriate, because the routing matrix functions as a single routing router.
- If the **log-prefix** statement is included, the messages from all routers in the routing matrix include the same text string. You cannot use the string to distinguish between the routers in the routing matrix.

**Related
Documentation**

- [Configuring System Logging for a TX Matrix Plus Router on page 41](#)
- [Routing Matrix with a TX Matrix Plus Router Solutions Page](#)

Configuring System Logging Differently on Each T1600 or T4000 Router in a Routing Matrix

We recommend that all routers in a routing matrix composed of a TX Matrix Plus router with T1600 or T4000 routers use the same configuration, which implies that you include system logging configuration statements on the TX Matrix Plus router only. In rare circumstances, however, you might choose to log different messages on different routers. For example, if one router in the routing matrix is experiencing problems with authentication, a Juniper Networks support representative might instruct you to log messages from the **authorization** facility with severity **debug** on that router.

To configure routers separately, include configuration statements in the appropriate groups at the **[edit groups]** hierarchy level on the TX Matrix Plus router:

- To configure settings that apply to the TX Matrix Plus router but not the T1600 or T4000 routers, include them in the **re0** and **re1** configuration groups.
- To configure settings that apply to particular T1600 or T4000 routers, include them in the **lccn-re0** and **lccn-re1** configuration groups, where **n** is the line-card chassis (LCC) index number of the router.

When you use configuration groups, do not issue CLI configuration-mode commands to change statements at the **[edit system syslog]** hierarchy level on the TX Matrix Plus router. If you do, the resulting statements overwrite the statements defined in configuration groups and apply to the T1600 or T4000 routers also. (We further recommend that you do not issue CLI configuration-mode commands on the T1600 or T4000 routers at any time.)

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

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

- On the TX Matrix Plus router, local messages with severity **info** and higher from all facilities. The file does not include messages from the T1600 or T4000 routers, because the **host sfc0-master** statement disables message forwarding.
- On the T1600 or T4000 router designated **LCC0**, messages from the **authorization** facility with severity **info** and higher.
- On the T1600 or T4000 router designated **LCC1**, messages with severity **notice** from all facilities.

```
[edit groups]
re0 {
  system {
    syslog {
      file messages {
        any info;
      }
      host sfc0-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;
      }
    }
  }
}
lcc0-re1 {
  ... same statements as for lcc1-re0 ...
}
```

- Related Documentation**
- [Configuring System Logging for a TX Matrix Plus Router on page 41](#)
 - [Routing Matrix with a TX Matrix Plus Router Solutions Page](#)

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 51](#)
- [Displaying a Log File from a Routing Matrix on page 51](#)
- [Interpreting System Log Messages on page 52](#)
- [Format of the message-source Field on page 58](#)
- [Examples: Displaying a Log File on page 61](#)

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

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
```

For information about the fields in a log message, see [“Interpreting Messages Generated in Standard Format by a Junos Process or Library” on page 56](#), [“Interpreting Messages Generated in Standard Format by Services on a PIC” on page 57](#), and [“Interpreting Messages Generated in Structured-Data Format” on page 52](#). For examples, see [“Examples: Displaying a Log File” on page 61](#).

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 51](#).

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

[“Impact of Different Local and Forwarded Severity Levels on System Log Messages on a TX Matrix Router” on page 35.](#)

For information about the fields in a log message, see [“Interpreting Messages Generated in Structured-Data Format” on page 52](#), [“Interpreting Messages Generated in Standard Format by Services on a PIC” on page 57](#), and [“Interpreting Messages Generated in Standard Format by a Junos Process or Library” on page 56](#). For examples, see [“Examples: Displaying a Log File” on page 61](#).

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 52](#)
- [Interpreting Messages Generated in Standard Format by a Junos Process or Library on page 56](#)
- [Interpreting Messages Generated in Standard Format by Services on a PIC on page 57](#)

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 12](#).

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):

```
<priority code>version timestamp hostname process processID TAG [junos@2636.platform  
variable-value-pairs] message-text
```

[Table 19 on page 53](#) describes the fields. If the system logging utility cannot determine the value in a particular field, a hyphen (-) appears instead.

Table 19: Fields in Structured-Data Messages

Field	Description	Examples
<priority code>	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 "Specifying the Facility and Severity of Messages to Include in the Log" on page 9 .	<165> for a message from the pfe facility (facility=20) with severity notice (severity=5).
version	Version of the Internet Engineering Task Force (IETF) system logging protocol specification.	1 for the initial version
timestamp	Time when the message was generated, in one of two representations: <ul style="list-style-type: none"> YYYY-MM-DDTHH:MM:SS.MSZ is the year, month, day, hour, minute, second and millisecond in Universal Coordinated Time (UTC) YYYY-MM-DDTHH:MM:SS.MS+/-HH:MM is the year, month, day, hour, minute, second and millisecond in local time; the hour and minute that follows the plus sign (+) or minus sign (-) is the offset of the local time zone from UTC 	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.
hostname	Name of the host that originally generated the message.	router1
process	Name of the Junos process that generated the message.	mgd
processID	UNIX process ID (PID) of the Junos process that generated the message.	3046
TAG	Junos system log message tag, which uniquely identifies the message.	UI_DBASE_LOGOUT_EVENT
junos@2636.platform	An identifier for the type of hardware platform that generated the message. The junos@2636 prefix indicates that the platform runs the Junos OS. It is followed by a dot-separated numerical identifier for the platform type. For a list of the identifiers, see Table 21 on page 55 .	junos@2636.1.1.1.2.18 for the M120 router
variable-value-pairs	A variable-value pair for each element in the <i>message-text</i> string that varies depending on the circumstances that triggered the message. Each pair appears in the format variable = "value" .	username="regress"

Table 19: Fields in Structured-Data Messages (*continued*)

Field	Description	Examples
message-text	English-language description of the event or error (omitted if the brief statement is included at the [edit system syslog file <i>filename</i> structured-data] hierarchy level). For the text for each message, see the chapters following System Log Messages.	User 'regress' exiting configuration mode

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):

```
<165>1 2007-02-15T09:17:15.719Z router1 mgd 3046 UI_DBASE_LOGOUT_EVENT
[junos@2636.1.1.1.2.18 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:

```
<165>1 2007-02-15T09:17:15.719Z router1 mgd 3046 UI_DBASE_LOGOUT_EVENT
[junos@2636.1.1.1.2.18 username="regress"]
```

Table 20 on page 54 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 20 on page 54 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 20: Facility and Severity Codes in the priority-code Field

Facility (number)	Severity emergency	alert	critical	error	warning	notice	info	debug
kernel (0)	1	1	2	3	4	5	6	7
user (1)	8	9	10	11	12	13	14	15
mail (2)	16	17	18	19	20	21	22	23
daemon (3)	24	25	26	27	28	29	30	31
authorization (4)	32	33	34	35	36	37	38	39
syslog (5)	40	41	42	43	44	45	46	47
printer (6)	48	49	50	51	52	53	54	55
news (7)	56	57	58	59	60	61	62	63

Table 20: Facility and Severity Codes in the priority-code Field (*continued*)

Facility (number)	Severity emergency	alert	critical	error	warning	notice	info	debug
uucp (8)	64	65	66	67	68	69	70	71
clock (9)	72	73	74	75	76	77	78	79
authorization-private (10)	80	81	82	83	84	85	86	87
ftp (11)	88	89	90	91	92	93	94	95
ntp (12)	96	97	98	99	100	101	102	103
security (13)	104	105	106	107	108	109	110	111
console (14)	112	113	114	115	116	117	118	119
local0 (16)	128	129	130	131	132	133	134	135
dfc (17)	136	137	138	139	140	141	142	143
local2 (18)	144	145	146	147	148	149	150	151
firewall (19)	152	153	154	155	156	157	158	159
pfe (20)	160	161	162	163	164	165	166	167
conflict-log (21)	168	169	170	171	172	173	174	175
change-log (22)	176	177	178	179	180	181	182	183
interactive-commands (23)	184	185	186	187	188	189	190	191

Table 21 on page 55 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 21: Platform Identifiers in the platform Field

Identifier	Platform Name
1.1.1.2.1	M40 router
1.1.1.2.2	M20 router
1.1.1.2.3	M160 router
1.1.1.2.4	M10 router

Table 21: Platform Identifiers in the platform Field (*continued*)

Identifier	Platform Name
1.1.1.2.5	M5 router
1.1.1.2.6	T640 routing node
1.1.1.2.7	T320 router
1.1.1.2.8	M40e router
1.1.1.2.9	M320 router
1.1.1.2.10	M7i router
1.1.1.2.11	M10i router
1.1.1.2.13	J2300 Services Router
1.1.1.2.14	J4300 Services Router
1.1.1.2.15	J6300 Services Router
1.1.1.2.17	TX Matrix platform
1.1.1.2.18	M120 router
1.1.1.2.19	J4350 Services Router
1.1.1.2.20	J6350 Services Router
1.1.1.2.23	J2320 Services Router
1.1.1.2.24	J2350 Services Router
1.1.1.2.27	T1600 router
1.1.1.2.37	TX Matrix Plus platform
1.1.1.2.83	T4000 router

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:

```
timestamp message-source: %facility-severity-TAG: 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:

```
timestamp message-source: TAG: message-text
```

Table 22 on page 57 describes the message fields.

Table 22: Fields in Standard-Format Messages Generated by a Junos Process or Library

Field	Description
<i>timestamp</i>	Time at which the message was logged.
<i>message-source</i>	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 message-source Field on a TX Matrix Platform” on page 59 , The message-source Field on a T640 Routing Node in a Routing Matrix , and “The message-source Field on a Single-Chassis System” on page 59 .
<i>facility</i>	Code that specifies the facility to which the system log message belongs. For a mapping of codes to facility names, see Table: Numerical Codes for Severity Levels Reported in Priority Information in “Including Priority Information in System Log Messages” on page 22 .
<i>severity</i>	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 22 .
<i>TAG</i>	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.
<i>message-text</i>	Text of the message. For the text for each message, see the chapters following System Log Messages.

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 23 on page 58 describes the message fields.

Table 23: Fields in Messages Generated by a PIC

Field	Description
<i>timestamp</i>	Time at which the message was logged.
<i>fpc-slot</i>	Slot number of the Flexible PIC Concentrator (FPC) that houses the PIC that generated the message.
<i>pic-slot</i>	Number of the PIC slot on the FPC in which the PIC that generated the message resides.
<i>service-set</i>	Name of the service set that generated the message.
<i>SERVICE</i>	Code representing the service that generated the message. The codes include the following: <ul style="list-style-type: none"> FWNAT—Network Address Translation (NAT) service IDS—Intrusion detection service
<i>optional-string</i>	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 <i>Junos Services Interfaces Configuration Guide</i> .
<i>TAG</i>	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.
<i>message-text</i>	Text of the message. For the text of each message, see System Log Messages.

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 56 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 59](#)
- [The message-source Field on a TX Matrix Platform on page 59](#)

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 [“Impact of Different Local and Forwarded Severity Levels on System Log Messages on a TX Matrix Router” on page 35](#).
- 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 24 on page 60](#) specifies the format of the message-source field in the various cases.

Table 24: Format of message-source Field in Messages Logged on TX Matrix Platform

Generating Machine	Generating Routing Engine	Process or Component	Format
TX Matrix platform	Local	Process	<i>hostname process[processID]</i>
		Component	<i>hostname scc-reX process[processID]</i>
	Other	Process	<i>hostname scc-reX scc-componentZ process</i>
		Component	<i>hostname scc-reX scc-componentZ process</i>
T640 routing node	Local	Process	<i>hostname lccY-masterprocess[processID]</i>
		Component	<i>hostname lccY-master scc-componentZ process</i>
	Other	Process	<i>hostname lccY-master lccY-reX process[processID]</i>
		Component	<i>hostname lccY-master lccY-reX lccY-componentZ process</i>

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).

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]: UI_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 62](#)
- [Examples: Displaying System Log Message Descriptions on page 64](#)

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>.

```
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 25 on page 62](#) describes the fields in a system log message description in this reference or in the CLI.

Table 25: Fields in System Log Message Descriptions

Field Name in Reference	Field Name in CLI	Description
—	Name	The message tag in all capital letters.

Table 25: Fields in System Log Message Descriptions (*continued*)

Field Name in Reference	Field Name in CLI	Description
System Log Message	Message	<p>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 (< >) in the CLI.</p> <p>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.</p>
—	Help	<p>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.</p>
Description	Description	More detailed explanation of the message.
Type	Type	<p>Category to which the message belongs:</p> <ul style="list-style-type: none"> • Error: The message reports an error or failure condition that might require corrective action. • Event: The message reports a condition or occurrence that does not generally require corrective action.
Severity	Severity	<p>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.</p>
Cause	Cause	<p>(Optional) Possible cause for message generation. There can be more than one cause.</p>

Table 25: Fields in System Log Message Descriptions (*continued*)

Field Name in Reference	Field Name in CLI	Description
Action	Action	(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.

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
BOOTPD_CONFIG_ERR tnp.bootpd could not parse configuration file;
                  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_CU_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

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CHAPTER 2

AAA System Log Messages

This chapter describes messages with the **AAA** prefix.

AAA_RADIUS_SERVER_STATE_CHANGE

System Log Message	Radius server <i>radius-server-name</i> state changed to <i>new-radius-server-state</i> on <i>interface-name</i>
Description	This notification signifies that the specified radius server has changed state from active to dead or vice-versa
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

CHAPTER 3

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_XFER_FAILED

System Log Message	Error transferring <i>filename</i>
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 <i>error-code</i> in invoking command <i>command</i> to transfer file <i>filename</i>
Description	A call to the <code>popen()</code> 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18750 .

ACCT_XFER_TIMEOUT

System Log Message	Aborted file transfer for: <i>filename</i> , <i>time-period</i> min. interval exceeded
Description	The time required to transfer a file exceeded the time configured for accounting-options interval.
Type	Error: An error occurred
Severity	error

Facility LOG_PFE

CHAPTER 4

ALARMD System Log Messages

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

ALARMD_CONFIG_ACCESS_ERROR

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

ALARMD_CONFIG_CLOSE_ERROR

System Log Message	Unable to close configuration database
Description	The alarm process (alarmd) could not close the configuration database.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

ALARMD_CONFIG_PARSE_ERROR

System Log Message	Unable to parse configuration; using defaults
Description	The alarm process (alarmd) 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.

ALARMD_CONFIG_RECONFIG_ERROR

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

ALARMD_CONNECTION_FAILURE

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

ALARMD_DECODE_ALARM_OBJECT_ERROR

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

ALARMD_EXISTS

System Log Message	alarmd already running; exiting
Description	The alarm process (alarmd) exited because it discovered that another alarmd process is already running.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

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_IFDALARM_TYPE_ERROR

System Log Message	Unknown interface alarm type: <i>alarm-type</i>
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	<i>function-name: library-function-name</i> failed on <i>error-message</i> socket (<i>socket-option</i>)
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	<i>function-name: error code error-code</i> , type <i>message-type</i> , subtype <i>message-subtype</i> , opcode <i>message-opcode</i>
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	<i>function-name</i> evSelectFD: initial pipe create aborted (errno <i>error-code</i>)
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: <i>Oxalarm-bit</i>
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 ' <i>filename</i> ': errno <i>error-code</i>
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: <i>error-message</i>
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

CHAPTER 5

ANALYZER System Log Messages

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

System Log Message	Number of analyzer input interface is exceeding <i>error-message</i>
Description	In an analyzer session, the number of input interfaces exceeded the platform limit.
Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON

CHAPTER 6

ANTISPAM System Log Messages

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

System Log Message	AntiSpam: SPAM detected: <i>source-name (source-address) action reason: reason username username roles roles</i>
Description	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
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_PFE
Cause	The email is detected as a spam
Action	Verify the spam to make sure it is not a false positive

CHAPTER 7

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

System Log Message	APPID signature update license(ID= <i>feature-id</i>) has expired
Description	APPID 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_DAEMON

CHAPTER 8

APPIDD System Log Messages

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

System Log Message	Application package download result(<i>status</i>)
Description	Application package download result
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

APPIDD_APPPACK_INSTALL_RESULT

System Log Message	Application package install result(<i>status</i>)
Description	Application package install result
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

APPIDD_APPPACK_UNINSTALL_RESULT

System Log Message	Application package uninstall result(<i>status</i>)
Description	Application package uninstall result
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

APPIDD_DAEMON_INIT_FAILED

System Log Message	Aborted. A failure was encountered <i>error-message</i>
---------------------------	---

Description An attempt to start AI policy daemon failed because an error was encountered during initialization.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

APPIDD_INTERNAL_ERROR

System Log Message Internal Error(*error-message*)

Description Application-Identification daemon encountered an internal error

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

APPIDD_SCHEDULED_UPDATE_FAILED

System Log Message Failed to update application package *error-message*

Description The scheduled application-identification application package update failed to start. Device will try it again at the next scheduled time

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

CHAPTER 9

APPPXY System Log Messages

This chapter describes messages with the **APPPXY** 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.

APPPXY_SESSION_ABORT_MT

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

CHAPTER 10

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 <i>reason:</i> <i>source-address/source-port->destination-address/destination-port service-name application nested-application</i> <i>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</i>
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 <i>logical-system-name:</i> AppTrack session closed <i>reason:</i> <i>source-address/source-port->destination-address/destination-port service-name application nested-application</i> <i>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</i>
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 <i>source-address/source-port->destination-address/destination-port service-name application nested-application</i> <i>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</i>
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	<i>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</i>
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	<i>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</i>
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	<i>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</i>
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

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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <i>received-value</i> expecting <i>expected-value</i>
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	<i>syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type</i>
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	<i>syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type</i>
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	<i>syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type</i>
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-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	<i>syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type</i>
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-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	<i>syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type</i>
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-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

Description 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 <i>tunnel-id</i> , session <i>session-id</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18753 .

ASP_L2TP_OBJ_CAC_FAIL

System Log Message	Unable to allocate object-cache memory for flow (unit <i>unit-id</i> , tunnel <i>tunnel-id</i> , session <i>session-id</i>)
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18754 .

ASP_L2TP_STATS_BULK_QUERY_FAILED

System Log Message	Number of queries (<i>num-queries</i>) in statistics request exceeded limit (<i>max-queries</i>)
Description	The Layer 2 Tunneling Protocol (L2TP) did not process an interprocess communication (IPC) request for statistics because it included the indicated the number of queries, which exceeds the limit as indicated.
Type	Error: An error occurred

Severity error
Facility LOG_PFE

ASP_L2TP_STATS_VERSION_INVALID

System Log Message Invalid version *received-value* on statistics request (expected *expected-value*)

Description The Layer 2 Tunneling Protocol process (l2tpd) received a request for statistics with the indicated version, which is not the indicated, supported version.

Type Error: An error occurred

Severity error

Facility LOG_PFE

ASP_L2TP_TUN_GRP_ADD_FAIL_ALLOC

System Log Message Unable to add tunnel group for service set *service-set*: could not allocate ID

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_PFE

ASP_L2TP_TUN_GRP_ADD_FAIL_EXISTS

System Log Message Unable to add tunnel group *group-id*: it already exists

Description The Layer 2 Tunneling Protocol (L2TP) could not add a tunnel group with the indicated ID because it already existed.

Type Error: An error occurred

Severity error

Facility LOG_PFE

ASP_L2TP_TUN_GRP_CHG_FAIL_ALLOC

System Log Message Unable to change tunnel group for service set *service-set*: could not allocate ID

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_PFE

ASP_L2TP_TUN_GRP_CHG_FAIL_INVLD

System Log Message Unable to change tunnel group *group-id*: ID is invalid

Description The Layer 2 Tunneling Protocol (L2TP) could not change the tunnel group with the indicated internal ID, because the ID is invalid.

Type Error: An error occurred

Severity error

Facility LOG_PFE

ASP_L2TP_TUN_GRP_DEL_FAIL_INVLD

System Log Message Unable to delete tunnel group *group-id*: ID is invalid

Description The Layer 2 Tunneling Protocol (L2TP) could not delete the tunnel group with the indicated internal ID, because the ID is invalid.

Type Error: An error occurred

Severity error

Facility LOG_PFE

ASP_NAT_OUTOF_ADDRESSES

System Log Message natpool *nat-pool-name* is out of addresses

Description Network Address Translation (NAT) services could not allocate an address from the indicated NAT pool, because no addresses were available.

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

Severity warning

Facility LOG_PFE

ASP_NAT_OUTOF_PORTS

System Log Message natpool *nat-pool-name* is out of ports

Description Network Address Translation (NAT) services could not allocate a port from the indicated NAT pool, because no ports were available.

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

Severity warning

Facility LOG_PFE

ASP_NAT_POOL_RELEASE

System Log Message natpool release *address:port[count]*

Description 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.

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

Severity info

Facility LOG_PFE

ASP_NAT_PORT_BLOCK_ACTIVE

System Log Message *source-address ->
nat-source-address:nat-source-port-range-start-nat-source-port-range-end 0xvalue1*

Description When interim port block logging is configured, an interim port block log is generated at the configured interval which carries all the information logged in ASP_NAT_PORT_BLOCK_ALLOC including the time stamp.

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

Severity info

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 will be allocated and assigned to a private IP if it is a first connection from that private IP or if there are no ports available in previously allocated port block for that private IP. This has the range of NAT ports and NAT IP allocated for that private IP.

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 0xvalue1*

Description 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-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 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_PCP_NAT_MAP_CREATE

System Log Message *source-address subscriber-address:source-port -> nat-source-address:nat-source-port*

Description Create the request mapping

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

ASP_PCP_NAT_MAP_DELETE

System Log Message *source-address subscriber-address:source-port -> nat-source-address:nat-source-port*

Description Delete the request mapping

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

ASP_PCP_TPC_ALLOC_ERR

System Log Message Memory allocation failed for Third party client: *source-address*

Description Allocation error for third party context

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

ASP_PCP_TPC_NOT_FOUND

System Log Message Third party context not found *source-address*

Description PCP third party context is not found

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 <i>message-type</i> , subtype <i>message-subtype</i>): status code <i>status</i>
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.
Type	Error: An error occurred
Severity	error
Facility	LOG_PFE
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18755 .

ASP_PGCP_IPC_PIPE_WRITE_FAILED

System Log Message	Unable to write IPC message (type <i>message-type</i> , subtype <i>message-subtype</i>) to pipe: status code <i>status</i>
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.
Type	Error: An error occurred
Severity	error
Facility	LOG_PFE
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18756 .

ASP_SFW_ALG_LEVEL_ADJUSTED

System Log Message	ALG <i>sfw-application-name</i> specified by stateful firewall or CoS rule was reduced to <i>nat-application-name</i> , because twice NAT does not support ALG <i>application</i>
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.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_PFE

- Action** Change the configuration so that twice-NAT rules (defined at the [edit services nat] hierarchy level) are not applied to the same source or destination addresses as rules defined at the [edit services stateful-firewall] or [edit services cos] hierarchy level that include ALGs other than the supported ones.

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
- Description** 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: This message reports an event, not an error
- 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: This message reports an event, not an error
- 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: This message reports an event, not an error
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*

Description 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-address:source-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-address:source-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-address:source-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-nameseparatorsource-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-nameseparatorsource-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 notice
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 notice
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	notice
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:source-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:source-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	<i>syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type</i>
Description	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).
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_PFE

ASP_SFW_NO_POLICY

System Log Message	<i>source-address -> destination-addressNo policy</i>
Description	The stateful firewall received packets with the indicated source and destination addresses. There was no matching policy for the traffic.
Type	Event: This message reports an event, not an error
Severity	critical
Facility	LOG_PFE

ASP_SFW_NO_RULE_DROP

System Log Message	<i>syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type</i>
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).
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_PFE

ASP_SFW_PING_DUPLICATED_SEQNO

System Log Message	<i>syslog-prefix error-code: proto protocol-id (protocol-name), source-interface-nameseparatorsource-address:source-port -> destination-addressdestination-port, event-type</i>
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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).
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_PFE

ASP_SFW_PING_MISMATCHED_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 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 *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 *reject configuration because reason*

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

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-addressdestination-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-addressdestination-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
Severity notice
Facility LOG_PFE

ASP_SFW_TCP_FLAGS_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 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 *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 *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

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

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

CHAPTER 12

AUDITD System Log Messages

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

System Log Message	Unable to create <i>type</i> record: <i>error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

AUDITD_RADIUS_OPEN_FAILED

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

AUDITD_RADIUS_REQ_CREATE_FAILED

System Log Message	Unable to create RADIUS request: <i>error-message</i>
Description	The audit process (auditd) could not create a RADIUS accounting request for the indicated reason.
Type	Error: An error occurred

Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB18758 .

AUDITD_RADIUS_REQ_DROPPED

System Log Message	Discarded Accounting-Request message; no RADIUS server responded
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	The RADIUS accounting servers are not correctly configured or are unreachable, or the server applications are not responding.

AUDITD_RADIUS_REQ_SEND_ERROR

System Log Message	<i>function-name: error-message</i>
Description	The audit process (auditd) experienced the indicated error when it requested accounting information from a RADIUS server.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

AUDITD_RADIUS_REQ_TIMED_OUT

System Log Message	Retransmitted request to RADIUS server <i>radius-server</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

Cause 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_ACCT_ON_ACK_NOT_RECEIVED

System Log Message	Acct-On-Response is not yet received for profile: <i>profile-name</i> , logical system: <i>logical-system-name</i> , routing instance: <i>routing-instance</i>)
Description	The generic authentication service process (authd) did not send any authentication/accounting packet to the RADIUS server because it has not received Acct-On-Ack from the RADIUS server.
Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH

AUTHD_AUTH_CREATE_FAILED

System Log Message	Unable to allocate authentication handle: <i>error-message</i>
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, http://kb.juniper.net/InfoCenter/index?page=content&id=KB18760 .

AUTHD_AUTH_SERVER_STATUS_CHANGE

System Log Message	Status of authentication server <i>destination-address:destination-port</i> set to <i>new-state</i> (profile <i>profile-name</i>)
Description	Authentication server status is changed to DOWN if it is unavailable, and it is again set to UP after revert interval timer expires

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

Severity warning

Facility LOG_AUTH

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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=KB18762>.

CHAPTER 14

AUTOCONF System Log Messages

This chapter describes messages with the **AUTOCONF** prefix. They are generated by the auto-configuration process (autoconfd).

AUTOCONF_AUTHENTICATE_LICENSE

System Log Message	Authentication failed due to license error. Total license failures <i>count</i>
Description	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.
Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON
Action	Add or update the license for authentication

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

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

AUTOD_HOSTNAME_EXPANSION_FAILURE

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

AUTOD_RECV_FAILURE

System Log Message	Unable to receive on socket: <i>error-message</i>
Description	The autoinstallation process (autod) received the indicated error when it tried to receive data on a socket.
Type	Error: An error occurred

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: <i>error-message</i>
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: <i>error-message</i>
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: <i>error-message</i>
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 .

CHAPTER 16

AV System Log Messages

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 <i>error-message</i> file due to <i>error-code</i> (<i>status-code</i>).
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 <i>time</i> failed due to <i>date</i> , 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: <i>error-message</i> .
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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(<i>file-size</i> 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

System Log Message	AntiVirus: Pattern file updated. Version: <i>version</i> ; size: <i>file-size</i> bytes
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: <i>error-code</i>
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

AV_VIRUS_DETECTED_MT

System Log Message	AntiVirus: Virus detected: from <i>source-address:source-port</i> to <i>destination-address:destination-port</i> <i>source-zone source-zone-name filename</i> file <i>temporary-filename</i> virus <i>name</i> URL: http://www.viruslist.com/en/search?VN=url <i>username username roles roles</i>
Description	The antivirus scanner has detected a virus; the log will show source and destination port and IP, source zone, contaminated file, virus name and URL link with virus description
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_PFE

CHAPTER 17

BFDD System Log Messages

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

System Log Message	Unable to establish BFD mirror connection between Routing Engines: <i>error-message</i>
Description	The Bidirectional Forwarding Detection process (bfdd) 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 OS.
Action	Update the Junos OS to compatible versions on the master and backup Routing Engines.

BFDD_MIRROR_VERSION_MISMATCH

System Log Message	Versions of BFD mirror software on Routing Engines are incompatible: <i>error-message</i>
Description	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.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Action	Update the Junos OS to compatible versions on the master and backup Routing Engines.

BFDD_READ_ERROR

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

BFDD_TRAP_MHOP_STATE_DOWN

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

BFDD_TRAP_MHOP_STATE_UP

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

BFDD_TRAP_SHOP_STATE_DOWN

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

BFDD_TRAP_SHOP_STATE_UP

System Log Message	local discriminator: <i>session-id</i> , new state: <i>state</i> , interface: <i>pip-interface</i> , peer addr: <i>remote-peer</i>
Description	The state changed to 'up' for the indicated Bidirectional Forwarding Detection process (bfd) 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: <i>session-id</i> , new state: <i>state</i>
Description	The state changed to 'down' or 'admin down' for the indicated Bidirectional Forwarding Detection process (bfd) 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: <i>session-id</i> , new state: <i>state</i>
Description	The state changed to 'up' for the indicated Bidirectional Forwarding Detection process (bfd) session.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

BFDD_WRITE_ERROR

System Log Message	<i>function-name</i> : write error on <i>pipe-type</i> pipe (<i>error-message</i>)
Description	The Bidirectional Forwarding Detection process (bfd) 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 .

CHAPTER 18

BOOTPD System Log Messages

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

System Log Message	Ignoring unknown option <i>-option</i>
Description	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.
Type	Error: An error occurred
Severity	warning
Facility	ANY
Action	Remove the invalid option from the 'tnp.bootpd' command line.

BOOTPD_BAD_ID

System Log Message	Unexpected ID 0x <i>assembly-id</i>
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 tnp.bootpd. A request failed because it included the indicated assembly ID, for which there is no definition in the file.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	ANY

BOOTPD_BOOTSTRING

System Log Message	Boot string: <i>boot-string</i>
Description	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.

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

BOOTPD_CONFIG_ERR

System Log Message	Problems with configuration file ' <i>filename</i> ', 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 ' <i>filename</i> '
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 <i>pic-slot</i> in FPC <i>fpc-slot</i>
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: <i>major-version.minor-version</i>
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: <i>slot</i>
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: <i>error-message</i>
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 <i>Oxidentifier</i> for model <i>model</i>
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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

BOOTPD_PARSE_ERR

System Log Message	<i>filename: return-value</i> 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.

BOOTPD_REPARSE

System Log Message	Reparsing configuration file ' <i>filename</i> '
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

BOOTPD_SELECT_ERR

System Log Message	select: <i>error-message</i>
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.

BOOTPD_TIMEOUT

System Log Message	Timeout <i>duration</i> 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.

CHAPTER 19

CFMD System Log Messages

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

System Log Message	CFM defect: <i>error-message</i>
Description	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.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON
Cause	The configuration is invalid.
Action	Check whether the configured MD name, format, and level, or the MA name or format, is different from the remote endpoint.

CFMD_CCM_DEFECT_ERROR

System Log Message	CFM defect: <i>error-message</i>
Description	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.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON
Cause	The configuration is invalid.

Action Verify that the configured continuity-check transmission interval does not differ from the remote endpoint, and that the configured MEP ID is valid.

CFMD_CCM_DEFECT_MAC_STATUS

System Log Message CFM defect: *error-message*

Description A connectivity-fault management (CFM) maintenance endpoint (MEP) received a continuity check message (CCM) that contained a 'Port Status' or 'Interface Status' type, length, value (TLV), which indicate a failed bridge port or aggregated port.

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

Severity error

Facility LOG_DAEMON

CFMD_CCM_DEFECT_NONE

System Log Message CFM defect: *error-message*

Description No defect was detected.

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

Severity error

Facility LOG_DAEMON

CFMD_CCM_DEFECT_RDI

System Log Message CFM defect: *error-message*

Description A connectivity-fault management (CFM) maintenance endpoint (MEP) received a continuity check message (CCM) that had the 'Remote Defect Indication' (RDI) bit set, which indicates that not all configured MEPs are returning CCMs to the transmitting MEP.

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

Severity error

Facility LOG_DAEMON

CFMD_CCM_DEFECT_RMEP

System Log Message CFM defect: *error-message*

Description A connectivity-fault management (CFM) maintenance endpoint (MEP) did not receive three consecutive continuity check message (CCM)s from one of the other MEPs in its maintenance association (MA), which indicates a MEP failure or network failure.

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

Severity error

Facility LOG_DAEMON

CFMD_CCM_DEFECT_UNKNOWN

System Log Message	CFM defect: <i>error-message</i>
Description	An unknown defect was detected.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

CFMD_PPM_READ_ERROR

System Log Message	Read error on pipe from ppm: <i>reason (error-message)</i>
Description	The connectivity fault management process (cfmd) 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	ANY
Action	Contact your technical support representative.

CFMD_PPM_WRITE_ERROR

System Log Message	<i>function-name</i> : write error on pipe to ppm: <i>(error-message)</i>
Description	The connectivity fault management process (cfmd) could not write a message on the pipe to the periodic packet management process (ppmd).
Type	Error: An error occurred
Severity	error
Facility	ANY
Action	Contact your technical support representative.

CHAPTER 20

CHASSISD System Log Messages

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	Acquire mastership notification
Description	The chassis process (chassisd) running on the master Routing Engine received a request to acquire mastership.
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	PIM <i>pim-slot</i> failed anti-counterfeit check
Description	The indicated Physical Interface Module (PIM) failed the anti-counterfeit check performed by the chassis process (chassisd).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_ANTICF_RE_CHECK_FAILED

System Log Message	Routing Engine failed anti-counterfeit check
Description	The Routing Engine failed the anti-counterfeit check performed by the chassis process (chassisd).
Type	Error: An error occurred
Severity	error

Facility LOG_DAEMON

CHASSISD_ANTICF_RE_ROM_READ_FAIL

System Log Message Unable to read serial number from anti-counterfeit device for Routing Engine

Description The chassis process (chassisd) could not read the serial number recorded in the ROM of the anti-counterfeit device for the Routing Engine.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_ANTICF_RE_SHA_READ_FAIL

System Log Message Unable to read SHA output from anti-counterfeit device for Routing Engine

Description The chassis process (chassisd) could not read Secure Hash Algorithm (SHA) information from the anti-counterfeit device for the Routing Engine.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_ANTICF_ROM_READ_FAILED

System Log Message Unable to read serial number from anti-counterfeit device for PIM *pim-slot*

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_ANTICF_SHA_READ_FAILED

System Log Message Unable to read SHA output from anti-counterfeit device for PIM *pim-slot*

Description The chassis process (chassisd) could not read Secure Hash Algorithm (SHA) information from the anti-counterfeit device for the indicated Physical Interface Module (PIM).

Type Error: An error occurred

Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_ARGUMENT_ERROR

System Log Message	Unknown option <i>option</i>
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	info
Facility	LOG_DAEMON

CHASSISD_BLOWERS_SPEED_FULL

System Log Message	Fans and impellers being set to full speed [<i>reason</i>]
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	info
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	info

Facility LOG_DAEMON

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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <i>fru-name fru-slot</i> 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, 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 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	<i>function-name</i> : unable to turn <i>state</i> power for CFEB <i>cfeb-slot</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18777 .

CHASSISD_CLEAR_CONFIG_ERROR

System Log Message	<i>function-name</i> : <i>status</i>
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

System Log Message	<i>function-name: fru-name error-message</i>
Description	The chassis process (chassisd) determined that the indicated clock source failed in the indicated way.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18778 .

CHASSISD_CLOCK_NOTICE

System Log Message	<i>fru-name: message</i>
Description	The clock-synchronization status 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_CLOCK_RESET_FAIL

System Log Message	Zarlink module on Taz Base Board is not coming up after reset
Description	The chassis process (chassisd) detected an error in the state of clock module.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_CMB_READBACK_ERROR

System Log Message	Readback error from chassis management bus for <i>fru-name fru-slot</i> ([<i>0xaddress</i> , <i>0xoffset</i>] -> <i>0xerror-code</i>)
Description	The chassis process (chassisd) could not read back information from the Chassis Management Bus (CMB) 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. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18779 .

CHASSISD_COMMAND_ACK_ERROR

System Log Message	Error occurred when <i>fru-name fru-slot</i> reported its online status: <i>error-message</i> (error code <i>error-code</i>)
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18780 .

CHASSISD_COMMAND_ACK_SFM_ERROR

System Log Message	<i>function-name: SFM sfm-slot</i> did not acknowledge FPC <i>fpc-slot</i> : error <i>error-message</i> (code <i>error-code</i>)
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18781 .

CHASSISD_CONCAT_MODE_ERROR

System Log Message	Cannot set no-concatenated mode for FPC <i>fpc-slot</i> PIC <i>pic-slot</i>
Description	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.

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

CHASSISD_CONFIG_ACCESS_ERROR

System Log Message	<i>function-name: error-message</i>
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 <i>argument1 interface-typesdev-numberargument2</i> 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	<i>function-name: warning-message, FPC fpc-slot PIC pic-slot</i>
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 <i>device-name</i> device file (errno <i>error-code</i>)
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	<i>function-name: error-message</i>
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	<i>fru-name</i> in slot <i>fru-slot</i> 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 http://kb.juniper.net/InfoCenter/index?page=content&id=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 <i>control-board-slot</i> , ID <i>fchip-id</i>): ftoken overflow/underflow set (<i>data</i>) at <i>address</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18783 .

CHASSISD_FASIC_FTOKEN_INIT_ERROR

System Log Message	Fchip (CB <i>control-board-slot</i> , ID <i>fchip-id</i>): f8chip_ftoken_init() stuck in ftoken loop, <i>addr=address</i> , <i>data=data</i>
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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
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18784 .

CHASSISD_FASIC_HSL_CONFIG_ERROR

System Log Message	Fchip (CB <i>control-board-slot</i> , ID <i>fchip-id</i>): HSL configuration failed (error <i>error-message</i>)
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18785 .

CHASSISD_FASIC_HSL_LINK_ERROR

System Log Message	Fchip (CB <i>control-board-slot</i> , ID <i>fchip-id</i>): link <i>link-id</i> failed because of <i>error-message</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18790 .

CHASSISD_FASIC_PIO_WRITE_ERROR

System Log Message	Fchip (CB <i>control-board-slot</i> , ID <i>fchip-id</i>): write error in <i>function-name()</i> for link# <i>link-id</i> at address <i>address</i> in register <i>register</i>
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).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18791 .

CHASSISD_FASIC_PLL_ERROR

System Log Message	Fchip (CB <i>control-board-slot</i> , ID <i>fchip-id</i>): 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).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18792 .

CHASSISD_FASIC_RESET_ERROR

System Log Message	Fchip (CB <i>control-board-slot</i> , ID <i>fchip-id</i>): reset failed
Description	The chassis process (chassisd) could not reset 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18793 .

CHASSISD_FASIC_SRAM_ERROR

System Log Message	Fchip (CB <i>control-board-slot</i> , ID <i>fchip-id</i>): 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).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18794 .

CHASSISD_FASIC_VERSION_ERROR

System Log Message	Fchip (CB <i>control-board-slot</i> , ID <i>fchip-id</i>): part number <i>part-number</i> and version <i>version</i> were invalid
Description	The indicated part number and version detected for the indicated F chip on the indicated Control Board (CB) were not valid values.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_FCHIP_CONFIG_COMPLETE

System Log Message	Fchip: configuration already completed
Description	The chassis process (chassisd) detected an attempt to configure an F chip when configuration was already complete.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_FCHIP_CONFIG_MD_ERROR

System Log Message	Fchip <i>fchip-id</i> : invalid number of Md chips (<i>count</i>) for Packet Forwarding Engine <i>pfe</i> on FPC <i>fpc-slot</i>
Description	The chassis process (chassisd) detected an invalid number of Md chips for the indicated F chip, Packet Forwarding Engine and Flexible PIC Concentrator (FPC).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

Action For more information, see
<http://kb.juniper.net/InfoCenter/index?page=content&id=KB18795>.

CHASSISD_FCHIP_CONFIG_RATE_ERROR

System Log Message Fchip *fchip-id*: unable to set rate limit on port *port*

Description The chassis process (chassisd) could not set the rate limit for the indicated F chip and port.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

CHASSISD_FCHIP_CONFIG_READ_ERROR

System Log Message Fchip *fchip-id*: unable to read configuration register

Description The chassis process (chassisd) could not read a configuration register on the indicated F chip.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

CHASSISD_FCHIP_FTOKEN_ERROR

System Log Message Fchip *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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FCHIP_FTOKEN_INIT_ERROR

System Log Message Fchip *fchip-id*: fchip_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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FCHIP_HSR_ERROR

System Log Message Fchip high-speed receiver (HSR) error: *error-message*

Description The chassis process (chassisd) detected an error in the high-speed receiver (HSR) subsystem for the F chip with the indicated characteristics.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action For more information, see <http://kb.juniper.net/InfoCenter/index?page=content&id=KB18796>.

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: <i>error-message</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18797 .

CHASSISD_FCHIP_HST_INIT_ERROR

System Log Message	HST: No vectors supplied
Description	The chassis process (chassisd) could not initialize the high-speed transmitter (HST) subsystem for an F chip.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_FCHIP_HST_INIT_LINK_ERR

System Log Message	Fchip <i>fchip-id</i> : unable to initialize HST link <i>link-id</i>
Description	The chassis process (chassisd) could not initialize the indicated high-speed transmitter (HST) link for the indicated F chip.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_FCHIP_HST_RESET_ERROR

System Log Message	Fchip <i>fchip-id</i> : hst_reset error in fchip_init() on link <i>link-id</i>
Description	A high-speed transmitter (HST) reset error occurred during initialization of the indicated F chip and link.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_FCHIP_INIT_ERROR

System Log Message	Fchips were not configured yet
Description	The chassis process (chassisd) detected that F chips were not yet initialized.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_FCHIP_LINK_ERROR

System Log Message	SIBsib-slot_F0: <i>link-type</i> link <i>link-id</i> was bad
Description	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).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18798 .

CHASSISD_FCHIP_MONITOR_ERROR

System Log Message	F chip module was invalid
Description	The chassis process (chassisd) detected an invalid F-chip module while enabling or disabling the monitoring of F-chip functional blocks.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18799 .

CHASSISD_FCHIP_PIO_READ_ERROR

System Log Message	Fchip <i>fchip-id</i> : read error in <i>function-name()</i> for link# <i>link-id</i> , at address <i>address</i> in register <i>register</i>
Description	The indicated routine failed with a read error at the indicated address and register for the indicated F chip and link.
Type	Error: An error occurred

Severity	error
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18800 .

CHASSISD_FCHIP_PIO_WRITE_ERROR

System Log Message	Fchip <i>fchip-id</i> : write error in <i>function-name()</i> for link# <i>link-id</i> , at address <i>address</i> in register <i>register</i>
Description	The indicated routine failed with a write error at the indicated address and register for the indicated F chip and link.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18801 .

CHASSISD_FCHIP_POLL_ERROR

System Log Message	Fchip <i>fchip-id</i> : <i>link-type link-id</i> poll returned error <i>error-code</i>
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 <i>fchip-id</i> : 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 <i>fru-name fru-slot</i> 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 <i>fchip-id</i> : part number (<i>part-number</i>) and version (<i>version</i>) 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 <i>fru-slot</i> to FEB <i>slot</i>
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 <i>fru-slot</i> to FEB <i>slot</i>
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 <i>address</i>
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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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18802 .

CHASSISD_FHSR_WRITE_REG_ERROR

System Log Message	Fchip: fhsr_write() of value <i>value</i> failed at address <i>address</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18803 .

CHASSISD_FHST_READ_REG_ERROR

System Log Message	Fchip: fhst_read() failed at address <i>address</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18804 .

CHASSISD_FHST_WRITE_REG_ERROR

System Log Message	Fchip: fhst_write() of value <i>value</i> failed at address <i>address</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18805 .

CHASSISD_FILE_OPEN

System Log Message	File open: <i>filename</i> , error: <i>error-code</i> -- <i>error-message</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18806 .

CHASSISD_FILE_STAT

System Log Message	File stat: <i>filename</i> , error: <i>error-code</i> -- <i>error-message</i>
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 <i>fpc-slot</i> 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 <i>fpc-slot</i> 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	<i>function-name</i> : unexpected state <i>statetype</i> for SIB# <i>sib-slot</i>
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 <i>elapsed-time</i> seconds, actions will be taken to address the fabric down condition.
Description	The chassis process detected all the fabric planes went down after interfaces were created and the router is not capable of carrying traffic coming in through the interfaces.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

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 <i>elapsed-time</i> 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.
Type	Error: An error occurred

Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_FM_ERROR

System Log Message	<i>function-name: error-message</i> (SIB# <i>sib-slot</i> , Packet Forwarding Engine <i>pfe</i> on FPC <i>fpc-slot</i>)
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).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18807 .

CHASSISD_FM_ERROR_CLOS_F13_HSR

System Log Message	FM: <i>error-message</i> errors occurred on link from F2- <i>f2-sib_SF</i> from- <i>fchip_s-port</i> to F13SIBto- <i>sfc-sib_SF3_to-fchip_d-port</i> on plane <i>sib-plane</i>
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_F13_HST

System Log Message	FM: <i>error-message</i> errors occurred on link from F13SIBfrom- <i>sfc-sib_SF1_from-fchip_s-port</i> to F2- <i>f2-sib_SF</i> to- <i>fchip_d-port</i> on plane <i>sib-plane</i>
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_SFfrom-fchip_s-port* to F13SIB*to-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	<i>error-message errors on LCC lcc_FPC fpc-slot_pfe link via ST_SIB_L from-lcc-sib_FB fiber-bundle to F13SIB to-sfc-sib</i>
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	<i>error-message on F13SIB from-sfc-sib_FB fiber-bundle VCSEL vcse Channel vcse-channel connected from LCC lcc SIB_L to-lcc-sib</i>
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

System Log Message	<i>F13SIB sib-slot_FB fiber-bundle LCC lcc ST_SIB_L to-lcc-sib is error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FM_ERROR_F13_FB_TX_VC

System Log Message *error-message on F13SIBfrom-sfc-sib_FBfiber-bundle VCSEL vcsel Channel vcsel-channel connected to 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 indicated direction were translated between electrical and optical media.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FM_ERROR_F13_VC_PWR

System Log Message *FM: High power difference at F13SIBfrom-sfc-sib_FBfiber-bundle VCSEL vcsel Channel vcsel-channel connected to LCC lcc SIB_Lsib-slot*

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 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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FM_ERROR_LCC_SIB_CBL

System Log Message *Cable running from SFC sc sc_sib_name, cbl_name, to LCC lcc lcc_sib_name is error-message on plane sib_plane*

Description In a Multi-chassis routing matrix, the fiber-optic cable between each SIB in a LCC routing node (called a LCC SIB) must connect to a specific SIB port on the switch chassis platform. The cable connected at the indicated line card chassis SIB had the indicated error.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FM_ERROR_LCC_SIB_HSR_PFE

System Log Message *error-message errors on link from FPC lc_name PFE pfe to lcc-sib-name
asic-name_asic-port, asic-chan on LCC lcc and plane sib-plane*

Description In a Multi-chassis routing matrix, packets traverse both through electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis Platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated LCC SIB detected an error in the electrical path between the indicated ports on the LCC SIB and the corresponding SIB on switch chassis.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FM_ERROR_LCC_SIB_HSR_XC

System Log Message *error-message errors on link from SFC sc sc-sib-name to LCC lcc lcc-sib-name
asic-name_asic-port, asic-chan on plane sib-plane*

Description In a Multi-chassis routing matrix, packets traverse both through electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis Platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated LCC SIB detected an error in the electrical path between the indicated ports on the LCC SIB and the corresponding SIB on switch chassis.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FM_ERROR_LCC_SIB_OPTICS_FAULT

System Log Message *Optics module on LCC error-message lcc, lcc-sib-name, connected to SFC cable-name sc
is sc-sib-name on plane sib-plane.*

Description In a Multi-chassis routing matrix, fiber-optic modules are used to inter-connect each SIB in a LCC routing node (called a LCC SIB) to a specific SIB port on the Switch chassis platform. The optics module connected at the indicated line card chassis SIB had the indicated error.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_FM_ERROR_LCC_SIB_RX_OPTICS

System Log Message *error-message on optics channel LCC lcc lcc-sib-name opt-dev-name_optics optics-channel*

Description In a Multi-chassis routing matrix, packets traverse both through electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis Platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated LCC SIB detected the indicated error in the optical media.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_FM_ERROR_LCC_SIB_TX_OPTICS

System Log Message *error-message on optics channel LCC lcc lcc-sib-name opt-dev-name_optics optics-channel*

Description In a Multi-chassis routing matrix, packets traverse both through electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis Platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated LCC SIB detected the indicated error as packets that were traveling in the indicated direction were translated between electrical and optical media.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_FM_ERROR_SC_CLOS_F13_HSR

System Log Message *error-message errors occurred on the link from SFC sc, sc-f2ssib-name_asic-name_asic-port, asic-chan to sc-f13sib-name_dst-asic-name_dst-asic-port, dst-asic-chan on plane sib-plane*

Description In a Multi-chassis routing matrix, packets traverse both through electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis 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_SC_CLOS_F13_HST

System Log Message *error-message errors occurred on the link from SFC sc, sc-f13ssib-name_asic-name_asic-port, asic-chan to sc-f13sib-name_dst-asic-name_dst-asic-port, dst-asic-chan on plane sib-plane*

Description In a Multi-chassis routing matrix, packets traverse both through electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis 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_SC_CLOS_F2_HSR

System Log Message *error-message errors occurred on the link from SFC sc, sc-f13ssib-name_asic-name_asic-port, asic-chan to sc-f2sib-name_dst-asic-name_dst-asic-port, dst-asic-chan on plane sib-plane*

Description In a Multi-chassis routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis 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_SC_CLOS_F2_HST

System Log Message	<i>error-message</i> errors occurred on the link from SFC <i>sc sc-f2ssib-name_asic-name_asic-port, asic-chan</i> to <i>sc-f13sib-name_dst-asic-name_dst-asic-port, dst-asic-chan</i> on plane <i>sib-plane</i>
Description	In a Multi-chassis routing matrix, packets traverse both through electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis 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_SC_SIB_CBL

System Log Message	Cable running from LCC <i>lcc sib_name, cbl_name</i> , to SFC <i>sc scc-sib-name</i> is <i>error-message</i> on plane <i>sib-plane</i>
Description	In a Multi-chassis routing matrix, the fiber-optic cable between each SIB in a LCC routing node (called a LCC SIB) must connect to a specific SIB port on the Switch chassis platform. The cable connected at the indicated switch chassis SIB had the indicated error.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_FM_ERROR_SC_SIB_HSR_XC

System Log Message	<i>error-message</i> errors occurred on the link from LCC <i>lcc lcc-sib-name</i> to SFC <i>sc sc-sib-name asic-name_asic-port, asic-chan</i> on plane <i>sib-plane</i>
Description	In a Multi-chassis routing matrix, packets traverse both through electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated Switch chassis SIB detected an error in the electrical path between indicated ports on the Switch chassis SIB and the indicated LCC SIB on the indicated LCC.
Type	Error: An error occurred
Severity	error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FM_ERROR_SC_SIB_OPTICS_FAULT

System Log Message Optics module on SFCerror-message *sc*, *sc-sib-name*, connected to LCCcable-name *lcc* is *lcc-sib-name* on plane *sib-plane*.

Description In a Multi-chassis routing matrix, fiber-optic modules are used to inter-connect each SIB in a LCC routing node (called a LCC SIB) to a specific SIB port on the Switch chassis platform. The optics module connected at the indicated switch chassis SIB had the indicated error.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FM_ERROR_SC_SIB_RX_OPTICS

System Log Message *error-message* on optics channel SFCsc *sc-sib-name* *opt-dev-name* *optics* *optics-channel*

Description In a Multi-chassis routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated Switch chassis SIB detected the indicated error as packets were traveling in the optical media from the indicated LCC SIB on the indicated LCC.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_FM_ERROR_SC_SIB_TX_OPTICS

System Log Message *error-message* on optics channel SFCsc *sc-sib-name* *opt-dev-name* *optics* *optics-channel*

Description In a Multi-chassis routing matrix, packets traverse both electrical and optical media as they travel between the Switch Interface Boards (SIBs) in the LCC routing nodes (called LCC SIBs) and the SIBs in the Switch Chassis platform (called F13SIBs and F2S-SIBs). The chassis process (chassisd) on the routing node that houses the indicated Switch chassis SIB detected the indicated error as packets were traveling in the optical media from the indicated LCC SIB on the indicated LCC.

Type Error: An error occurred

Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_FM_ERROR_SIB_L_FB_HSR

System Log Message	FM: HSR error occurred on link from SIB-S port F(<i>s-row,s-port</i>) to SIB-L# <i>sib-slot</i> port F(<i>l-row,l-port</i>)
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18808 .

CHASSISD_FM_ERROR_SIB_L_FB_RX_VC

System Log Message	<i>error-message</i> on LCC <i>lcc</i> SIB_L <i>from-lcc-sib</i> _FB <i>fiber-bundle</i> VCSEL <i>vcsel</i> Channel <i>vcsel-channel</i> connected to F13SIB <i>to-sfc-sib</i>
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 the indicated error as packets that were traveling in the optical media.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_FM_ERROR_SIB_L_FB_SMF

System Log Message	FM: <i>error-message</i> error occurred on link <i>to-from-sib</i> SIB-L# <i>sib-slot</i> <i>to-from-scc</i> SCC
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 (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

indicated error as packets that were traveling in the indicated direction 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18809 .

CHASSISD_FM_ERROR_SIB_L_FB_TXP

System Log Message	<i>LCC lcc ST-SIB-L:sib-slot Fiber-bundle:fiber-bundle is error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_FM_ERROR_SIB_L_FB_TX_VC

System Log Message	<i>error-message on LCC lcc SIB_Lfrom-lcc-sib_FBfiber-bundle VCSEL vcsel Channel vcsel-channel connected to F13SIBto-sfc-sib</i>
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 the indicated error as packets that were traveling in the indicated direction were translated between electrical and optical media.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_FM_ERROR_SIB_L_HSR_PFE

System Log Message	<i>FM: error-message on LCC:lcc FPCfpc-slot_pfe link to ST-SIB-Lto-lcc-sib_fchip-id</i>
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 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

System Log Message FM: *error-message* on LCC:lcc FPCfpc-slot_pfe link connected by ST-SIB-Lfrom-lcc-sib_fchip-id_s-port_FBfiber-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 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-S port 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_FBfiber-bundle VCSEL vcse Channel vcse-channel connected to F13SIBfrom-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 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 <i>lcc</i> SIB-L port F(<i>l-row,l-port</i>) to SIB-S# <i>sib-slot</i> port F(<i>s-row,s-port</i>)
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 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18810 .

CHASSISD_FM_ERROR_SIB_S_FB_SMF

System Log Message	FM: <i>error-message</i> error occurred on link <i>to-from-sib-s</i> SIB-S# <i>sib-slot to-from-lcc</i> LCC <i>lcc</i>
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 <http://kb.juniper.net/InfoCenter/index?page=content&id=KB18811>.

CHASSISD_FM_FABRIC_DEGRADED

System Log Message DPCs are seeing grant timeouts; System is blackholing Need to attempt fabric healing. Action will be taken after *elapsed-time* seconds, to address the fabric down condition.

Description The chassis process detected that the fabric planes are functioning at a degraded capacity and the router is not capable of carrying traffic coming in through the interfaces.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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
Action	Contact your technical support representative.

CHASSISD_FPC_OPTICS_HOT_NOTICE

System Log Message *fru-name* temperature over *temperature* degrees C; non-high-temperature tolerant optics will be disabled in *duration* seconds if condition persists

Description The temperature of FPC exceeded the trigger point to disable non-high-temperature tolerant optics. If the temperature did not decrease below the threshold within 10 minutes after message was logged, the chassisd process disable those affected optics.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Increase cooling on FRU or replace optics with high-temperature tolerant optics

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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18813 .

CHASSISD_FPC_TYPE_SIB_TYPE_ERROR

System Log Message	Installed SIB type (SIB-I8-F16) does not support features required by FPC <i>fpc-slot</i>
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	<i>fru-name fru-slot</i> 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 <i>fru-name fru-slot</i> 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	<i>function-name: state fru-name fru-slot</i>
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_FIRE_TEMP_CONDITION

System Log Message	<i>fru-name fru-slot sensor temperature temperature over threshold degrees C (message);</i> routing platform will shut down in <i>duration</i> seconds if condition persists
Description	The temperature of the specified component (field-replaceable unit, or FRU) exceeded the indicated temperature, which is the upper of two thresholds. The fans (and impellers, if applicable) that were cooling this FRU were in the indicated state. If the temperature does not go below the threshold within four seconds 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.

CHASSISD_FRU_HIGH_TEMP_CONDITION

System Log Message	<i>fru-name fru-slot sensor temperature temperature over threshold degrees C (message)</i>
Description	The temperature of the specified component (field-replaceable unit, or FRU) exceeded the indicated temperature, which is the lower of two thresholds. The fans (and impellers, if applicable) that were cooling this FRU were in the indicated state. The chassis process (chassisd) increased the speed of all functioning fans (and impellers) that were cooling this component to full speed.
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_FRU_INVALID_SLOT

System Log Message	FRU <i>fru-name</i> 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18814 .

CHASSISD_FRU_IO_ERROR

System Log Message	<i>function-name: fru-name operation error: reason (error-message)</i>
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	<i>function-name: fru-name operation error: reason 0xoffset (error-message)</i>
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
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_FRU_IPC_WRITE_ERROR

System Log Message	<i>function-name: FRU fru-name, errno error-code, error-message</i>
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 <i>fru-name fru-slot</i> offline because FRU sequencer is active: <i>reason</i>
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	notice
Facility	LOG_DAEMON

CHASSISD_FRU_OFFLINE_NOTICE

System Log Message	Taking <i>fru-name fru-slot</i> offline: <i>reason</i>
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	notice
Facility	LOG_DAEMON

CHASSISD_FRU_OFFLINE_TIMEOUT

System Log Message	Offline request timed out; <i>fru-name fru-slot</i> 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	<i>function-name</i> : attempt to bring <i>fru-name fru-slot</i> 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_OVER_TEMP_CONDITION

System Log Message	<i>fru-name fru-slot</i> sensor temperature <i>temperature</i> over <i>threshold</i> degrees C (<i>message</i>); FRU will shut down in <i>duration</i> seconds if condition persists
Description	The temperature of the specified component (field-replaceable unit, or FRU) exceeded the indicated temperature, which is the upper of two thresholds. The fans (and impellers, if applicable) that were cooling this FRU 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 FRU or all FRUs in the same cooling zone. 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.

CHASSISD_FRU_STEP_ERROR

System Log Message	<i>fru-name fru-slot at step step-number</i>
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 <i>fru-name fru-slot</i> : <i>error-message</i> ; <i>action</i>
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 <i>count</i> to power on <i>fru-name fru-slot</i> 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 <i>fru-name fru-slot</i>
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
Facility LOG_DAEMON

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 critical
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 = 0x*value*)

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 <http://kb.juniper.net/InfoCenter/index?page=content&id=KB18815>.

CHASSISD_GBUS_READBACK_ERROR

System Log Message	Readback error from GBUS for <i>fru-name fru-slot</i> ([<i>0xgbus-address</i> , <i>0xgbus-registers</i>] -> <i>0xreturn-value</i>)
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18816 .

CHASSISD_GBUS_RESET_EVENT

System Log Message	<i>fru-name#fru-slot - command</i>
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	<i>function-name: fru-name fru-slot --</i> 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	<i>function-name: error-message</i>
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	<i>function-name: error-message</i>
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: <i>error-code -- error-message</i>
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

CHASSISD_GRES_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 <i>temperature</i> degrees C (<i>message</i>)
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

Description 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18817 .

CHASSISD_I2CS_READBACK_ERROR

System Log Message	Readback error from I2C slave for <i>fru-name fru-slot</i> ([<i>0xi2cs-address</i> , <i>0xoffset</i>] -> <i>0xerror-code</i>)
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 <i>fru-name</i>
Description	The chassis process (chassisd) determined that the ID EEPROM 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18818 .

CHASSISD_I2C_FIC_PRESENCE_READ

System Log Message	<i>function-name: fru-name</i> unable to get presence masks (<i>error-message</i>)
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	<i>function-name: error-message</i>
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	'Oxassembly-id' is invalid value for <i>fru-name</i> 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	<i>function-name: operation</i> ioctl failure for group <i>group-id</i> at address <i>Oxaddress</i> (errno <i>error-code</i>)
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	<i>function-name: fru-name operation</i> failed for group <i>group-id</i> at address <i>Oxaddress</i>
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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: <i>0xassembly-id</i> , MAC address: <i>0xmac-address</i> , <i>0xversion</i>)
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	<i>function-name</i> : requested offset was out of range (offset <i>offset</i> + nbytes <i>count</i> > 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	<i>function-name</i> : read error for group <i>group-id</i> at address <i>0xaddress</i> , offset <i>offset</i>
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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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
<http://kb.juniper.net/InfoCenter/index?page=content&id=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

Action For more information, see
<http://kb.juniper.net/InfoCenter/index?page=content&id=KB18822>.

CHASSISD_IFDEV_DETACH_PSEUDO

System Log Message ifdev_detach(pseudo devices: porttype *port-type*, sdev=*sdev-number*, edev=*edev-number*)

Description The chassis process (chassisd) detached the interface devices for the indicated pseudodevices.

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

Severity notice

Facility LOG_DAEMON

CHASSISD_IFDEV_DETACH_TLV_ERROR

System Log Message ifdev_detach: rtslib_ifdm_change_tlvs failed for slot *fpc-slot* dev idx *device-id* *error-message*

Description The chassis process (chassisd) asked the kernel to remove the indicated interface from the kernel interface table. The request failed.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

CHASSISD_IFDEV_GETBYNAME_NOTICE

System Log Message *function-name*: ifdm get_by_name failed for *interface-type* interface device *interface-name* (*error-message*)

Description The chassis process (chassisd) failed to find the indicated interface device, even though it just created it.

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

Severity warning

Facility LOG_DAEMON

Cause There was a problem with interface state creation.

Action Contact your technical support representative.

CHASSISD_IFDEV_GET_BY_INDEX_FAIL

System Log Message *function-name*: rtslib_ifdm_get_by_index failed: *error-code* - *error-message*

Description The chassis process (chassisd) could not obtain information about an interface device.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

CHASSISD_IFDEV_GET_BY_NAME_FAIL

System Log Message Unable to retrieve information for interface device *interface-name*: *error-message*

Description The chassis process (chassisd) could not obtain information about the indicated interface device.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

CHASSISD_IFDEV_NO_MEMORY

System Log Message *function-name*: unable to allocate memory for *interface-type* interface

Description The chassis process (chassisd) could not allocate memory when creating an interface device for the indicated interface type.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause Resources on the system are extremely limited.

Action Eliminate the resource limitations and restart the PIC that houses the interface for which the interface device could not be created.

CHASSISD_IFDEV_RETRY_NOTICE

System Log Message *function-name*: attempt *count* to add interface device *interface-name* failed (*error-message*)

Description 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.

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.

CHASSISD_IFDEV_RTSLIB_FAILURE

System Log Message *function-name*: *library-function-name* failed (*error-message*)

Description The chassis process (chassisd) could not create 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.

CHASSISD_IFILTER_INSTALL_ERROR

System Log Message *function-name: RTSOCK Implicit Filter install failed. error=error-code*

Description The chassis process (chassisd) could not install a global implicit rtsock filter most likely due to a file operation error.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

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).

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_IPC_ANNOUNCE_TIMEOUT

System Log Message *function-name: no ack received from fru-type for fru-name fru-slot state change (Oxsent-mask, acks Oxack-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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18823 .

CHASSISD_IPC_DAEMON_WRITE_ERROR

System Log Message	pipe_write failure for <i>connection-id</i> ; connection error: <i>error-message</i> (errno <i>error-code</i>)
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18824 .

CHASSISD_IPC_ERROR

System Log Message	<i>function-name</i> : <i>error-message</i>
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	<i>function-name</i> : flush operation failed for <i>fru-name</i> <i>fru-slot</i>
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 = <i>message-type</i> , subtype = <i>message-subtype</i>
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 http://juniper.net/InfoCenter/index?page=content&id=http://juniper.net/InfoCenter/index?page=content&id=KB8825

CHASSISD_IPC_MSG_ERROR

System Log Message	<i>function-name</i> : error code <i>error-code</i> , type <i>message-type</i> , subtype <i>message-subtype</i> , opcode <i>message-opcode</i>
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	<i>function-name</i> : unable to locate FRU for message with type <i>message-type</i> , subtype <i>message-subtype</i> , opcode <i>message-opcode</i>
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 = <i>message-type</i> , subtype = <i>message-subtype</i>
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	<i>function-name</i> : unable to handle <i>fru-name</i> message with type <i>message-type</i> , subtype <i>message-subtype</i> , length <i>length</i> , opcode <i>message-opcode</i> , error <i>error-code</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18826 .

CHASSISD_IPC_UNEXPECTED_MSG

System Log Message	<i>function-name</i> : invalid message received: <i>message</i> (message type <i>message-type</i> , subtype <i>message-subtype</i>)
Description	The chassis process (chassisd) received a 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 <i>connection-id</i> : type = <i>message-type</i> , subtype = <i>message-subtype</i>
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	<i>function-name</i> : pipe_write failure for SCC connection with error <i>error-code</i> (<i>error-message</i>)
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
Severity	warning
Facility	LOG_DAEMON

CHASSISD_IPC_WRITE_ERR_NO_PIPE

System Log Message	FRU has no connection pipe <i>function-name fru-name</i>
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.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON

CHASSISD_IPC_WRITE_ERR_NULL_ARGS

System Log Message	FRU has no connection arguments <i>function-name fru-name</i>
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.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18827 .

CHASSISD_ISSU_BLOB_ERROR

System Log Message	<i>fru-name</i> : <i>error-message</i>
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.

Type Error: An error occurred
Severity notice
Facility LOG_DAEMON

CHASSISD_ISSU_DAEMON_ERROR

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.

Type Error: An error occurred
Severity notice
Facility LOG_DAEMON

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

System Log Message *fru-name: state:[state] error:[message] reason:[error-message]*
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 <i>error-code</i>
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 <i>aedevice-id</i>
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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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
Facility LOG_DAEMON

CHASSISD_MAC_ADDRESS_PLT_ERROR

System Log Message chassisd MAC address allocation error for PLT
Description The chassis process (chassisd) could not obtain a media access control (MAC) address for the pseudo logical tunnel interface because of an internal error.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

CHASSISD_MAC_ADDRESS_SWFAB_ERR

System Log Message Unable to allocate MAC address for swfabric interface *device-id*
Description The chassis process (chassisd) could not obtain a media access control (MAC) address for the indicated swfabric interface because of an internal error.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

CHASSISD_MAC_ADDRESS_VIRB_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_VLAN_ERROR

System Log Message	chassisd MAC address allocation error for VLAN
Description	The chassis process (chassisd) could not obtain a media access control (MAC) address for a vlan interface because of an internal error.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_MAC_DEFAULT

System Log Message	Using default MAC address base
Description	The chassis process (chassisd) used the default base media access control (MAC) address.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

CHASSISD_MAIN_THREAD_STALLED

System Log Message	main chassis-control thread stalled for <i>duration</i> sec -- exiting
Description	Chassis control daemon main thread did not run for a long duration.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	A core dump of chassis control daemon will be attempted.

CHASSISD_MALLOC_FAILURE

System Log Message	<i>function-name</i> : chassisd malloc failed, aborting
Description	The chassis process (chassisd) could not allocate memory. The chassisd process tried to continue functioning, but the lack of memory usually causes the process to fail. An administrator needs to restart it at some point.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18830 .

CHASSISD_MASTER_CG_REMOVED

System Log Message	Master <i>fru-name</i> (slot <i>fru-slot</i>) removed; powering it down
Description	The master Clock Generator (CG) was removed. The CG provides the clock for interfaces timing, so those interfaces might drop packets and experience other errors until a new clock source has been established.
Type	Error: An error occurred
Severity	critical
Facility	LOG_DAEMON

CHASSISD_MASTER_PCG_REMOVED

System Log Message	Master PCG (slot <i>pcg-slot</i>) 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.
Type	Error: An error occurred
Severity	critical
Facility	LOG_DAEMON

CHASSISD_MASTER_SCG_REMOVED

System Log Message	Master SCG (slot <i>fru-slot</i>) 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.
Type	Error: An error occurred
Severity	critical
Facility	LOG_DAEMON

CHASSISD_MBUS_ERROR

System Log Message	<i>fru-name fru-slot</i> : management bus failed sanity test
Description	Startup tests on the indicated FRU's management bus failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_MCHASSIS_SWITCH_WARNING

System Log Message	CB settings on <i>chassis-type old-index</i> changed: switch is now ' <i>value</i> ', chassis index is now <i>0xnew-index</i>
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	<i>function-name</i> evSelectFD: initial pipe create aborted (errno <i>error-code</i>)
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 <i>mic-slot</i> in FPC <i>fpc-slot</i> offline: <i>reason</i>
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 <i>pic-slot</i> in FPC <i>fpc-slot</i>
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_CGS

System Log Message	No <i>fru-name</i> status
Description	The chassis process (chassisd) could not find an operational Clock Generator (CG). To continue functioning properly, interfaces that use a CG as their clock source must find another source.
Type	Error: An error occurred
Severity	error
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

Action Contact your technical support representative.

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

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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18832 .

CHASSISD_OVER_TEMP_SHUTDOWN_TIME

System Log Message	Chassis temperature above <i>temperature</i> degrees C <i>description</i> (> <i>duration</i> seconds); powering down all FRUs
Description	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.
Type	Error: An error occurred
Severity	critical
Facility	LOG_DAEMON
Action	Increase cooling in the area around the chassis. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18833

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_PCI_ERROR

System Log Message	<i>function-name: error-message</i>
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_PDU_BREAKER_TRIP

System Log Message Circuit breaker tripped for PDU *pdu-slot*

Description The circuit breaker was tripped for the indicated power distribution unit (PDU).

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

Severity warning

Facility LOG_DAEMON

Action Turn on the affected PDU manually.

CHASSISD_PDU_NOT_OK

System Log Message *error-message* for PDU *pdu-slot* (status bits: *0xstatus-code*)

Description The chassis process (chassisd) detected the indicated error condition for the indicated power distribution unit (PDU).

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

Severity warning

Facility LOG_DAEMON

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.

CHASSISD_PEM_BREAKER_TRIP

System Log Message Circuit breaker tripped for power supply *pem-slot*

Description The circuit breaker was tripped for the indicated power entry module (PEM).

Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	Turn on the affected PEM manually.

CHASSISD_PEM_IMPROPER

System Log Message Power supply *pem-slot* improper for platform

Description Old PEM is not supported in this platform.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Replace old PEM with proper newer PEM

CHASSISD_PEM_INPUT_BAD

System Log Message *error-message* for power supply *pem-slot* (status bits: *0xstatus-code*); check circuit breaker

Description The chassis process (chassisd) detected the indicated error condition for the indicated power entry module (PEM).

Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	Check the status of the circuit breaker and the input connections.

CHASSISD_PEM_NOT_SUFFICIENT

System Log Message Unable to power up FPC *fpc-slot*, because no three-input 240-A power supply is installed

Description On the T1600 router, the T1600-FPC4 ES Flexible PIC Concentrator (FPC) requires that at least one three-input 240-A power supply be installed. The chassis process (chassisd) did not power on the T1600-FPC4 ES in the indicated slot because the required power supply is not installed.

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 <i>pem-slot</i> (status bits: <i>0xstatus-code</i>);
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18834 .

CHASSISD_PEM_TEMPERATURE

System Log Message	Temperature check bit set for power supply <i>pem-slot</i> ; 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 <i>pem-slot</i> 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18835 .

CHASSISD_PFE_LAUNCH_ERROR

System Log Message	Failed to launch PFE: <i>error-message</i>
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Description The chassis process (chassisd) failed to launch the PFE image.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

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
Facility	LOG_DAEMON
Action	Remove the PIC or upgrade the Junos OS.

CHASSISD_PIC_HWERROR

System Log Message	PIC <i>pic-slot</i> in FPC <i>fpc-slot</i> (PIC type <i>pic-type</i> , version <i>version</i>) 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18836 .

CHASSISD_PIC_OFFLINE_NOTICE

System Log Message	Taking PIC <i>pic-slot</i> in FPC <i>fpc-slot</i> offline: <i>reason</i>
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: <i>pic-name</i> (<i>error-message</i>)
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: <i>i2c-id</i>
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_PORT_ERROR

System Log Message	chassisd pic/port check and set error for FPC <i>fpc-slot</i> , PIC <i>pic-slot</i> , port <i>port</i>
Description	The chassis process (chassisd) could not set the port attributes for the indicated interface because of an internal error.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_PIC_RESET_ON_SWITCHOVER

System Log Message	PIC <i>pic-slot</i> in FPC <i>fpc-slot</i> (type <i>pic-type</i> : <i>pic-name</i> , version <i>version</i>) 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- <i>fpc-slot/pic-slot/port</i> to <i>default-value</i> because configured value <i>current-value</i> 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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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

Facility LOG_DAEMON

Cause A common reason is that a standalone test jumper is installed.

CHASSISD_POWER_ON_CHECK_FAILURE

System Log Message *fru-name-fru-slot* is already powered on, no need to re-power

Description The chassis process (chassisd) is getting a power- not-on status for a FRU (field-replaceable unit) that is already powered on.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause This could be due to bad hardware or communication failure between hardware and software.

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_PSM_NOT_OK

System Log Message *error-message* for PDU *pdu-slot* PSM *psm-slot* (status bits: *0xstatus-code*)

Description The chassis process (chassisd) detected the indicated error condition for the indicated power supply module (PSM).

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

Severity warning

Facility LOG_DAEMON

Action Contact your technical support representative.

CHASSISD_PSU_ERROR

System Log Message *error-message* power supply *pem-slot* (status bits: *0xstatus-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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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
<http://kb.juniper.net/InfoCenter/index?page=content&id=KB18839>.

CHASSISD_PSU_INPUT_BAD

System Log Message *error-message* power supply *pem-slot* (status bits: 0x*status-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
<http://kb.juniper.net/InfoCenter/index?page=content&id=KB18840>.

CHASSISD_PSU_OVERLOAD

System Log Message Overload condition for power supply *pem-slot* (status bits: 0x*status-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
<http://kb.juniper.net/InfoCenter/index?page=content&id=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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18842 .

CHASSISD_PSU_VOLTAGE

System Log Message	Power supply <i>pem-slot</i> 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18843 .

CHASSISD_RANGE_CHECK

System Log Message	<i>function-name</i> : '0xvalue' is invalid value for <i>object-name</i> (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
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Description	The chassis process (chassisd) running on the master Routing Engine received a request to release mastership.
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_RE_CONSOLE_FE_STORM

System Log Message	Console device encountering framing error storm on Routing Engine <i>routing-engine-slot</i> (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.)
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_RE_CONSOLE_ME_STORM

System Log Message	Console device encountering modem error storm on Routing Engine <i>routing-engine-slot</i> (possibly a bad console cable)
Description	At least one console device on the Routing Engine has encountered excessive modem errors. This can be indicative of a bad cable connected to the device (especially in the case of a serial console port).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_RE_INIT_INVALID_RE_SLOT

System Log Message	re_init: re <i>routing-engine-slot</i> , out of range
Description	The chassis process (chassisd) could not initialize a Routing Engine because the slot number specified for it was invalid.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_RE_OVER_TEMP_CONDITION

System Log Message	Routing Engine <i>routing-engine-slot</i> temperature (<i>temperature</i> C) over <i>threshold</i> degrees C
Description	The temperature of the indicated Routing Engine exceeded the indicated temperature, which is the upper of two thresholds.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Increase cooling in the area around the chassis. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18844 .

CHASSISD_RE_OVER_TEMP_SHUTDOWN

System Log Message	Routing Engine <i>routing-engine-slot</i> temperature above <i>threshold</i> degrees C for too long; <i>action</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18845 .

CHASSISD_RE_OVER_TEMP_WARNING

System Log Message	Routing Engine <i>routing-engine-slot</i> temperature (<i>temperature</i> C) over <i>threshold</i> degrees C, <i>component</i> will shutdown in <i>duration</i> 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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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	<i>fru-name fru-slot</i> temperature is <i>temperature</i> 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
Severity	warning
Facility	LOG_DAEMON
Cause	Some sensors generate erroneous readings when a FRU starts up. When this happens, the chassis process (chassisd) rereads the sensor at a later time.

CHASSISD_SERIAL_ID

System Log Message	Serial ID read error: <i>error-code -- error-message</i>
Description	The chassis process (chassisd) could not obtain the Routing Engine's serial number from the kernel because of the indicated error.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON

CHASSISD_SFM_MODE_ERROR

System Log Message	<i>function-name: error-message</i>
Description	The chassis process could not configure a requested operational mode for a Switching and Forwarding Module (SFM), for the indicated reason.
Type	Error: An error occurred
Severity	info
Facility	LOG_DAEMON
Cause	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.

CHASSISD_SFM_NOT_ONLINE

System Log Message	<i>function-name</i> : SFM <i>sfm-slot</i> not online
Description	The indicated Switching and Forwarding Module (SFM) was offline.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_SHUTDOWN_NOTICE

System Log Message	Shutdown reason: <i>reason</i>
Description	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	<i>fru-name</i> in invalid slot <i>slot</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=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)*

Description 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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18851 .

CHASSISD_SNMP_TRAP1

System Log Message	SNMP trap generated: <i>trap (argument1 value1)</i>
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: <i>trap (argument1 value1, argument2 value2, argument3 value3, argument4 value4, argument5 value5, argument6 value6, argument7 value7, argument8 value8, argument9 value9, argument10 value10)</i>
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: <i>trap (argument1 value1, argument2 value2, argument3 value3, argument4 value4, argument5 value5, argument6 value6)</i>
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: <i>trap (argument1 value1, argument2 value2, argument3 value3, argument4 value4, argument5 value5, argument6 value6, argument7 value7)</i>
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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.

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

Severity info

Facility LOG_DAEMON

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.

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

Severity error

Facility LOG_DAEMON

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.

Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Cause	There is probably a system error.
Action	Contact your technical support representative.

CHASSISD_STANDALONE_FPC_NOTICE

System Log Message	chassisd running in standalone FPC mode <i>mode</i>
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.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

CHASSISD_SYSCTL_ERROR

System Log Message	<i>function-name: sysctl-error</i> error from <i>sysctl-function-name: error-message</i> (errno <i>error-code</i>)
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	<i>fru-name</i> temperature of <i>temperature</i> degrees C is above limit (<i>threshold</i> 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	<i>function-name</i> : unable to read temperature sensor for <i>fru-name</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18852 .

CHASSISD_TERM_SIGNAL

System Log Message	Received SIGTERM 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	<i>function-name</i> : <i>message</i>
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 <i>description</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18853 .

CHASSISD_UNEXPECTED_EXIT

System Log Message	evMainLoop returned <i>return-value</i> (errno error-code)
Description	The chassis process (chassisd) exited unexpectedly and reported the indicated error.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18854 .

CHASSISD_UNEXPECTED_VALUE

System Log Message	<i>function-name</i> : 'value' is invalid value for <i>object-name</i>
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 <i>0xi2c-id</i> 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 <i>model</i> 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 <i>pic-slot</i> in FPC <i>fpc-slot</i> (type <i>pic-type</i> , version <i>version</i>) is not supported
Description	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.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_UNSUPPORTED_PIC_MODE

System Log Message	Application mode <i>mode</i> is not supported for PIC <i>pic-slot</i> in FPC <i>fpc-slot</i>
Description	The indicated Physical Interface Card (PIC) does not support the indicated application mode configured for it.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	Check which application modes are supported for the PIC.

CHASSISD_UNSUPPORTED_SIB

System Log Message	SIB with assembly ID <i>assembly-id</i> is not supported <i>reason</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

CHASSISD_VCHASSIS_CONVERT_ERROR

System Log Message	<i>function-name: fpc-slot/pic-slot/port</i> conversion timeout; type <i>type-string</i>
Description	The chassis process (chassisd) timed out awaiting notification from an fpc that an interface being converted to or from a vc-port was deleted.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_VCHASSIS_LICENSE_ERROR

System Log Message	Virtual Chassis License not installed
Description	A virtual-chassis operational mode command was executed without a valid virtual chassis license being installed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_VERSION_MISMATCH

System Log Message	Version mismatch: chassisd message version <i>expected-value fru-name fru-slot</i> message version <i>received-value</i> local IPC version <i>local-ipc-version</i> remote IPC version <i>remote-ipc-version</i>
Description	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.
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_VOLTAGE_READ_FAILED

System Log Message	Unable to read voltage from <i>fru-name</i> (group <i>group-id</i> , address <i>address</i> , channel <i>voltage-channel</i>)
Description	The chassis process (chassisd) could not read voltage data from the indicated component (field-replaceable unit, or FRU).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18855 .

CHASSISD_VOLTAGE_SENSOR_INIT

System Log Message	Unable to initialize voltage sensor for <i>fru-name</i> (group <i>group-id</i> , address <i>address</i>)
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.

CHASSISD_VSERIES_LICENSE_ERROR

System Log Message	CHASSISD_VSERIES_LICENSE_ERROR: <i>error-message</i>
Description	A virtual Appliance Operational Command was executed without a valid virtual appliance license being installed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHASSISD_ZONE_BLOWERS_SPEED

System Log Message	Fans and impellers in zone <i>zone</i> are now running at normal speed
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Description The fans (and impellers, if applicable) in zone were running at the normal speed.

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

Severity notice

Facility LOG_DAEMON

CHASSISD_ZONE_BLOWERS_SPEED_FULL

System Log Message Fans and impellers in zone *zone* being set to full speed [*reason*]

Description For the indicated reason, the chassis process (chassisd) increased the speed of fans (and impellers, if applicable) in zone to the maximum.

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

Severity notice

Facility LOG_DAEMON

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

System Log Message	<i>reason: error-message</i>
Description	A system call made by this process 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.

CHAPTER 22

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

System Log Message	Error: Cannot have config <i>error-message interface-name</i>
Description	The class-of-service (CoS) process (cosd) did not apply the config on this interface because it was not valid in this case.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	One possible cause is if any Class-of-Service is configured on an interface which is a part of an aggregated interface
Action	Remove or change the config from/on the interface.

COSD_CHASSIS_SCHED_MAP_INVALID

System Log Message	Chassis scheduler map incorrectly applied to interface <i>interface-name: error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	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.

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 <i>classifier-type</i> on lsi interface <i>interface-name</i>
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 <i>interface-name</i>
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_CLASS_NO_SUPPORT_IFD

System Log Message	BA/Fixed Classifier or Rewrite on Physical Interface is not allowed when ethernet switching family is configured: interace <i>interface-name</i>
Description	The Rewrite is not supported on this interface when ethernet switching is enabled
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Remove the classifier configuration from the interface, instead apply it on the logical interface where ethernet switching family is enabled
Action	Remove the Rewrite configuration from the interface, instead apply it on the logical interface where ethernet switching family is enabled

COSD_CLASS_NO_SUPPORT_L3_IFL

System Log Message	BA/Fixed Classifier or Rewrite config is not allowed on logical interface (<i>interface-name</i>) with inet/inet6 family
Description	The Rewrite is not supported on this logical interface
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Remove the classifier configuration from the logical interface, instead apply it on the main interface if inet/inet6 is configured on one of its logical interfaces
Action	Remove the Rewrite configuration from the logical interface, instead apply it on the main interface if inet/inet6 is configured on one of its logical interfaces

COSD_CONF_OPEN_FAILURE

System Log Message	Unable to open: <i>filename</i> , 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 reasons: mgd -l fails after upgrade-the file cosd.conf does not exist and is not created because of the mgd -l 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: <i>error-message(name)</i>
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 <i>scheduler-map</i> to interface <i>interface-name</i> 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 <i>session-id</i> , because scheduler map <i>scheduler-map</i> 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.
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 session.

COSD_FRAGMENTATION_MAP_CONFLICT

System Log Message	Interface <i>compression-device</i> matches wildcard <i>wildcard-interface-name</i> , but fragmentation map <i>fragmentation-map</i> was not applied because interface is compression device for link interface <i>link-interface-name</i>
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.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Action	Correct the configuration of the fragmentation map.

COSD_HIGH_PRIO_QUEUES_INTERFACE

System Log Message	Unable to apply scheduler map <i>scheduler-map</i> to interface <i>interface-name</i> , 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.
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_HIGH_PRIO_QUEUES_SESSION

System Log Message	Unable to apply CoS to L2TP session <i>session-id</i> , because multiple schedulers in scheduler map <i>scheduler-map</i> 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 <i>interface-name</i>
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 <i>interface-name</i>
Description	The non-queuing dense port concentrators (DPCs) did not support the specified shaping rate.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	The port shaper was not supported on the non-queuing DPCs.
Action	Remove the shaping rate configuration from the interface.

COSD_INTERFACE_NO_MEDIA

System Log Message	Unable to obtain media information for interface <i>interface-name</i>
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Description	The message sent by the kernel for the indicated interface did not include required media information.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

COSD_L2TP_COS_NOT_CONFIGURED

System Log Message	Unable to apply CoS to L2TP session <i>session-id</i> because session-aware CoS is not enabled for interface <i>interface-name</i>
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 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 <interface-name> unit <logical-unit-number>] hierarchy level.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Include the 'per-session-scheduler' statement in the configuration for the interface.

COSD_L2TP_COS_NOT_SUPPORTED

System Log Message	Unable to apply CoS to L2TP session <i>session-id</i> on interface <i>interface-name</i> : it does not support CoS
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. 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 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 <i>session-id</i> because session-aware shaping is not enabled for interface <i>interface-name</i>
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 <i>interface-name</i> <i>error-message</i>
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: <i>error-message</i>
Description	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 <http://kb.juniper.net/InfoCenter/index?page=content&id=KB18862>.

COSD_MAX_FORWARDING_CLASSES_ABC

System Log Message exceeding max 4 forwarding-class support.

Description User configuration exceeds the maximum number of forwarding class that is supported.

Type Error: An error occurred

Severity warning

Facility LOG_DAEMON

Action Configure only four forwarding classes

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 : <i>error-message</i>
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 <i>interface-name</i> is at <i>percentage-value</i> 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 <i>scheduler-map</i> to interface <i>interface-name</i> . <i>description</i> .
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 <i>scheduler-map</i> to interface <i>interface-name</i> because it does not support rate limiting
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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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Remove the 'rate-limit' statement from the scheduler in the scheduler map applied to the interface.

COSD_REWRITE_RULE_LIMIT_EXCEEDED

System Log Message	Number of rewrite rules applied to interface <i>interface-name</i> exceeds limit (<i>maximum-value</i>)
Description	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 <interface-name> unit <logical-unit-number> rewrite-rules] hierarchy level.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Remove rewrite rules from the configuration for the interface.

COSD_RL_IFL_NEEDS_SHAPING

System Log Message	"rate-limit" configured in <i>scheduler-map</i> , but ifl <i>interface-name</i> does not have output shaper configured. It will use the ifd-shaping rate/ifd-transmit rate for implementation of rate-limit.
Description	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.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Action	Configure output shaping rate for the indicated interface

COSD_SCHEDULER_MAP_CONFLICT

System Log Message	Forwarding classes " <i>first-forwarding-class</i> " and " <i>second-forwarding-class</i> " in scheduler map <i>scheduler-map</i> both map to queue <i>queue-number</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Map only one forwarding class to the queue.

COSD_SCHED_AVG_CONST_UNSUPPORTED

System Log Message	Averaging constant not supported on interface <i>interface-name</i> . Value set in scheduler-map <i>scheduler-map</i> (scheduler <i>name</i>) will be ignored.
Description	Configuring averaging constant is not supported on the indicated interface. Value set in the indicated scheduler will be ignored.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Action	Remove the averaging-constant configuration from the indicated scheduler.

COSD_SCHED_MAP_GROUP_CONFLICT

System Log Message	Interface <i>interface-name</i> cannot be bound to scheduler-map <i>scheduler-map</i> . It will be bound to default scheduler-map
Description	Interfaces belonging to a group cannot be bound to different scheduler maps. They will be bound to the default scheduler map.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Map only one scheduler map to all the interfaces of a group.

COSD_SHAPER_GROUP_CONFLICT

System Log Message	Interface <i>interface-name</i> cannot be bound to configured shaping-rate. It will be bound to default rate
Description	Interfaces belonging to a group cannot be bound to different shaping rates. They will be bound to the default shaping rate.

Type	Error: An error occurred
Severity	error
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 <i>interface-name</i>
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: <i>error-message</i>
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 <i>scheduler-map</i> to interface <i>interface-name</i> , 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 <i>scheduler-map</i> to interface <i>interface-name</i> : 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 <i>classifier-type</i> is invalid
Description	The class-of-service (CoS) process (cosd) did not recognize the indicated classifier type from the rtsock library.

Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

COSD_UNKNOWN_REWRITE

System Log Message	rtsock rewrite type <i>type</i> is invalid
Description	The class-of-service (CoS) process (cosd) did not recognize the indicated rewrite type from the rtsock library.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

COSD_UNKNOWN_TRANSLATION_TABLE

System Log Message	rtsock translation table type <i>translation-table-type</i> is invalid
Description	The class-of-service (CoS) process (cosd) did not recognize the indicated translation table type from the rtsock library.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Cause	An internal software failure occurred.
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18866 .

CHAPTER 23

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 <i>interface-name</i> : 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 successfull

DCBX_PFC_ENABLED

System Log Message	IF <i>interface-name</i> : 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 successfull

DCBX_VERSION

System Log Message	IF <i>interface-name</i> : 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

CHAPTER 24

DCD System Log Messages

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

System Log Message	<i>interface-name</i> : AE is not supported in OSE mode for <i>pic-type</i> PIC type
Description	Aggregated Ethernet cannot be configured on a PD-5-10XGE-SFPP that is not explicitly configured for linerate mode.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	Set this PIC to linerate mode, or remove the Aggregated Ethernet configuration for the PD-5-10XGE-SFPP link.

DCD_GRE_CONFIG_INVALID

System Log Message	Either tunnel key or clear-dont-fragment-bit must be configured for this GRE tunnel (<i>interface-name</i>), to enable post fragmentation
Description	This interface needs either the tunnel key or the clear-dont-fragment-bit to be configured along with allow-fragmentation
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Configure either the tunnel key or clear-dont-fragment-bit for this tunnel

DCD_MALLOC_FAILED_INIT

System Log Message	Memory allocation failed during initialization for configuration load
Description	The interface process (dcd) could not dynamically allocate memory in preparation for loading a configuration.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	A software bug caused a memory leak, or the routing platform had insufficient memory.
Action	Contact your technical support representative.

DCD_PARSE_CFG_WARNING

System Log Message	<i>configuration-statement : warning-message</i>
Description	The interface-control process (dcd) found a discrepant configuration
Type	Error: An error occurred
Severity	warning
Facility	ANY
Cause	This is a warning message and the current configuration has a few discrepancies to be addressed.
Action	Contact your technical support representative.

DCD_PARSE_EMERGENCY

System Log Message	dcd_config: errors while parsing configuration file
Description	The interface process (dcd) encountered an unhandled internal state while parsing the configuration database.
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.

DCD_PARSE_ERROR_CLOCK

System Log Message	PIC housing interface <i>interface-name</i> does not support clocking as configured
Description	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.
Type	Error: An error occurred
Severity	warning

Facility LOG_DAEMON

Action Remove the 'clocking' statement from the configuration for the interface.

DCD_PARSE_ERROR_HIER_SCHEDULER

System Log Message *interface-name*: PIC or encapsulation type does not support 'hierarchical-scheduler' statement

Description 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.

Type Error: An error occurred

Severity warning

Facility LOG_DAEMON

Action Remove the 'hierarchical-scheduler' statement from the configuration for the interface.

DCD_PARSE_ERROR_IFLSET

System Log Message Interface *interface-name* does not support 'interface-set' statement

Description The 'interface-set' statement is included at the [edit interfaces] hierarchy level for the indicated interface, but is not supported by the interface.

Type Error: An error occurred

Severity warning

Facility LOG_DAEMON

Action Remove the 'interface-set' statement from the configuration for the interface.

DCD_PARSE_ERROR_MAX_HIER_LEVELS

System Log Message *interface-name*: PIC or encapsulation type does not support 'maximum-hierarchy-levels' statement

Description 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.

Type Error: An error occurred

Severity warning

Facility LOG_DAEMON

Action Remove the 'hierarchical-scheduler maximum-hierarchy-levels' statement from the configuration for the interface.

DCD_PARSE_ERROR_SCHEDULER

System Log Message	<i>interface-name</i> : 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	<i>interface-name</i> : exceeds the allowed limit (<i>maximum-value</i>) of 'per-unit-scheduler' interface statement for PIC= <i>pic-slot</i> on FPC= <i>fpc-slot</i>
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	<i>interface-name</i> : 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	<i>configuration-statement</i> : Incompatible configuration detected : <i>warning-message</i>
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.

CHAPTER 25

DDOS System Log Messages

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 <i>protocol-name</i> has returned to normal. Violated at <i>source-name</i> for <i>repeat-count</i> times, from <i>time-first-detected</i> to <i>time-last-detected</i>
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 <i>protocol-name</i> is violated at <i>source-name</i> for <i>repeat-count</i> times, started at <i>time-first-detected</i> , last seen at <i>time-last-detected</i>
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 <i>action argument</i> , error= <i>error-code</i>
Description	The ddos system process (jddosd) experienced the indicated error with a routing socket.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

DDOS_SCFD_FLOW_AGGREGATED

System Log Message	Flows of protocol <i>protocol-name</i> on slot <i>source-name</i> are aggregated to <i>level</i> level(s)
Description	The ddos system has aggregated flows to a coarse granularity.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	check network configuration

DDOS_SCFD_FLOW_CLEARED

System Log Message	A flow of protocol <i>protocol-name</i> on <i>source-name</i> with source addr <i>source-address</i> is cleared. Found at <i>time-first-detected</i> , last observed <i>time-last-detected</i> .
Description	The ddos system cleared a monitored control flow. Its arriving rate may still be above its bandwidth.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	check logs and the flow may be discovered again

DDOS_SCFD_FLOW_DEAGGREGATED

System Log Message	Flows of protocol <i>protocol-name</i> on slot <i>source-name</i> are deaggregated to <i>level</i> level(s)
Description	The ddos system has deaggregated flows to a finer granularity.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	check network configuration

DDOS_SCFD_FLOW_FOUND

System Log Message	A new flow of protocol <i>protocol-name</i> on <i>source-name</i> with source addr <i>source-address</i> is found at <i>time-first-detected</i>
Description	The ddos system detected a control flow that exceeded its allowed bandwidth. It could be a ddos attack flow.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	check network configuration and shut down problem source

DDOS_SCFD_FLOW_RETURN_NORMAL

System Log Message	A flow of protocol <i>protocol-name</i> on <i>source-name</i> with source addr <i>source-address</i> returned normal and is removed from monitoring. Found at <i>time-first-detected</i> , last observed at <i>time-last-detected</i>
Description	The ddos system detected that the incoming traffic for a violated flow returned to normal and the flow was removed from monitoring.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	check network configurtaion

DDOS_SCFD_FLOW_TIMEOUT

System Log Message	A flow of protocol <i>protocol-name</i> on <i>source-name</i> with source addr <i>source-address</i> is timed out. Found at <i>time-first-detected</i> , last observed at <i>time-last-detected</i>
Description	The ddos system timed out a monitored control flow. Its arriving rate may still be above its bandwidth.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	check logs and the flow may be discovered again

CHAPTER 26

DFCD System Log Messages

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 <i>interface-name</i> 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: <i>error-message (error-code)</i>
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

Action For more information, see [KB18875](#).

DFCD_LINH_MALLOC_FAILED

System Log Message	GENCFG mem alloc failed !!!
Description	The dynamic flow capture process (dfcd) could not allocate memory for linh message.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB18876 .

DFCD_LI_NEXT_HOP_ADD_FAILED

System Log Message	Unable to add li next hop for subscriber interface: <i>error-message (error-code)</i>
Description	The dynamic flow capture process (dfcd) could not add a subscriber li next hop, for the indicated reason.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

DFCD_NEXT_HOP_ADD_FAILED

System Log Message	Unable to add service next hop: <i>error-message (error-code)</i>
Description	The dynamic flow capture process (dfcd) could not add a service next hop, for the indicated reason.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

DFCD_NEXT_HOP_DELETE_FAILED

System Log Message	Unable to delete service next hop: <i>error-message (error-code)</i>
Description	The dynamic flow capture process (dfcd) could not delete a service next hop, for the indicated reason.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

DFCD_SAMPLE_CLASS_ADD_FAILED

System Log Message	Unable to add sample class: <i>error-message (error-code)</i>
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: <i>error-message (error-code)</i>
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 27

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

System Log Message	Memory allocation failed during initialization for configuration load
Description	The firewall process (dfwd) could not dynamically allocate memory in preparation for loading a configuration.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	A software bug caused a memory leak, or the routing platform had insufficient memory.
Action	Contact your technical support representative.

DFWD_PARSE_FILTER_EMERGENCY

System Log Message	dfwd encountered errors while parsing filter index file
Description	The firewall process (dfwd) encountered an unhandled internal state while parsing a filter index file.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	There might be a bug in the parser.
Action	Contact your technical support representative.

DFWD_PARSE_STATE_EMERGENCY

System Log Message	dfwd encountered unhandled state while parsing interface
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Description	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.

CHAPTER 28

DHCPD System Log Messages

This chapter describes messages with the **DHCPD** prefix. They are generated by the Dynamic Host Configuration Protocol (DHCP) server process (dhcpcd) 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 <i>port</i> failed: <i>error-message</i>
Description	The Dynamic Host Configuration Protocol server process (dhcpcd) 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 <i>reason</i> : <i>error-message</i>
Description	The Dynamic Host Configuration Protocol server process (dhcpcd) 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 <i>object-name</i> : <i>error-message</i>
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Description The Dynamic Host Configuration Protocol server process (dhcpcd) 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.

DHCPD_OVERLAY_CONFIG_FAILURE

System Log Message Unable to open overlay configuration: *error-message*

Description The Dynamic Host Configuration Protocol server process (dhcpcd) could not open an overlay configuration file for parsing.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

Action Contact your technical support representative.

DHCPD_OVERLAY_PARSE_FAILURE

System Log Message Unable to parse overlay configuration because of *count* syntax errors

Description The Dynamic Host Configuration Protocol server process (dhcpcd) could not parse its overlay configuration because the configuration contained the indicated number of syntax errors.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

Cause An internal software failure occurred.

Action Contact your technical support representative.

DHCPD_RECVMSG_FAILURE

System Log Message Exiting due to too many recvmsg() failures

Description The Dynamic Host Configuration Protocol server process (dhcpcd) could not receive data from the network, which it needs to do during normal operation.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

Action Contact your technical support representative.

DHCPD_RT SOCK_FAILURE

System Log Message Error with rtsock: *error-message*

Description The Dynamic Host Configuration Protocol server process (dhcpcd) experienced the indicated error with a routing socket.

Type Error: An error occurred

Severity info

Facility LOG_AUTH

Cause An internal software failure occurred.

Action Contact your technical support representative.

DHCPD_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 server process (dhcpcd) 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.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

Action Contact your technical support representative.

DHCPD_SENDMSG_NOINT_FAILURE

System Log Message sendmsg() from *source-address* to port *destination-port* at *destination-address* via routing instance *routing-instance* failed: *error-message*

Description The Dynamic Host Configuration Protocol server process (dhcpcd) 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.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

Action Contact your technical support representative.

DHCPD_SETSOCKOPT_FAILURE

System Log Message	setsockopt(<i>socket-option</i>) failed: <i>error-message</i>
Description	The Dynamic Host Configuration Protocol server process (dhcpcd) 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(<i>arguments</i>) failed: <i>error-message</i>
Description	The Dynamic Host Configuration Protocol server process (dhcpcd) could not create a socket.
Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH
Action	Contact your technical support representative.

CHAPTER 29

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

System Log Message	<i>user-type</i> User <i>username</i> session with MacAddress <i>mac-address</i> interface <i>interface-name</i> vlan <i>vlan-name</i> deleted
Description	Authenticated session has been deleted.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

DOT1XD_RCVD_EAPLOGOF_ATHNTCTNG

System Log Message	<i>user-type</i> User <i>username</i> EAP Logoff received from MacAddress <i>mac-address</i> interface <i>interface-name</i> vlan <i>vlan-name</i> while authenticating
Description	EAP Log off received while authenticating.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

DOT1XD_RCVD_EAPLOGOF_ATHNTICTD

System Log Message	<i>user-type</i> User <i>username</i> EAP Logoff received from MacAddress <i>mac-address</i> interface <i>interface-name</i> vlan <i>vlan-name</i> while authenticated
Description	EAP Log off received while authenticated.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

DOT1XD_RCVD_EAPLOGOF_CONNECTNG

System Log Message	<i>user-type</i> User <i>username</i> EAP Logoff received from MacAddress <i>mac-addresse</i> interface <i>interface-name</i> vlan <i>vlan-name</i> 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	<i>user-type</i> User <i>username</i> authentication failed in MacAddress <i>mac-addresse</i> interface <i>interface-name</i> vlan <i>vlan-name</i>
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_ATHNTICTD_GST_VLAN

System Log Message	<i>user-type</i> User <i>username</i> non responsive host <i>mac-addresse</i> on interface <i>interface-name</i> moved to guest vlan <i>vlan-name</i>
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	<i>user-type</i> User <i>username</i> logged in MacAddress <i>mac-addresse</i> interface <i>interface-name</i> vlan <i>vlan-name</i>
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	<i>user-type</i> User <i>username</i> cleared in MacAddress <i>mac-addresse</i> interface <i>interface-name</i> vlan <i>vlan-name</i> due to ether-table ageout
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Description User is unauthenticated when mac aging timer expires.

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

Severity info

Facility LOG_DAEMON

DOT1XD_USR_ON_SRVR_FAIL_VLAN

System Log Message *user-type* User *username* logged in MacAddress *mac-addresse* interface *interface-name* authenticated on server fail vlan *vlan-name*

Description User gets authenticated on server fail vlan if it is configured and when radius server is not reachable.

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

Severity info

Facility LOG_DAEMON

DOT1XD_USR_ON_SRVR_REJECT_VLAN

System Log Message *user-type* User *username* logged in MacAddress *mac-addresse* interface *interface-name* authenticated on server reject vlan *vlan-name*

Description User gets authenticated on server reject vlan if it is configured and when radius server rejects the access request.

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

Severity info

Facility LOG_DAEMON

DOT1XD_USR_SESSION_DISCONNECTED

System Log Message *user-type* User *username* session with MacAddress *mac-addresse* interface *interface-name* vlan *vlan-name* disconnected

Description User session has been disconnected.

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

Severity info

Facility LOG_DAEMON

DOT1XD_USR_SESSION_HELD

System Log Message *user-type* User *username* session with MacAddress *mac-addresse* interface *interface-name* vlan *vlan-name* is held

Description User session has been held and dot1x shall retry authentication after held timer expires.

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

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

CHAPTER 30

DYNAMIC System Log Messages

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

System Log Message	Unable to connect to fwauthd on socket <i>file-descriptor: error-message</i>
Description	The connection manager 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_AUTH

DYNAMIC_VPN_AUTH_FAIL

System Log Message	Username/password and token are <i>username</i>
Description	The connection manager authentication process was unable to authenticate the indicated user/token
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_AUTH

DYNAMIC_VPN_AUTH_INVALID

System Log Message	<i>type username</i> is invalid
Description	The connection manager authentication failed due to invalid user/token
Type	Event: This message reports an event, not an error

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*

Description 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 <i>limit</i> free, <i>count</i> overdrafted, <i>current-value</i> 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 <i>username</i>
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 <i>username</i>
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 <i>limit</i> free, <i>count</i> overdrafted, <i>current-value</i> 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

Severity info
Facility LOG_FIREWALL

DYNAMIC_VPN_LICENSE_REQUIRED

System Log Message Dynamic VPN license denied, no license installed
Description Requested operation requires an Access Manager license to be installed on this device.

Type Error: An error occurred
Severity error
Facility LOG_FIREWALL

DYNAMIC_VPN_LICENSE_UNINSTALLED

System Log Message Dynamic VPN license *name* deleted, license *limit* total, *count* free
Description An Access Manager license is removed from this device.

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

CHAPTER 31

ESWD System Log Messages

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	<i>interface-name</i> : 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	<i>interface-name</i> : 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	<i>count type</i> received, interface <i>interface-name</i> [index <i>interface-device-index</i>], vlan <i>vlan-name</i> [index <i>vlan-id</i>], sender ip/mac <i>sender-address/mac1</i> , receiver ip/mac <i>destination-address/mac2</i>
Description	The ARP request/response received 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	<i>count</i> untrusted <i>type</i> received, interface <i>interface-name</i> [index <i>interface-device-index</i>], vlan <i>vlan-name</i> [index <i>vlan-id</i>], server ip/mac <i>source-address/mac1</i> , offer ip/client mac <i>client-address/mac2</i>
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 <i>mac-addresse</i> received on <i>interface-name</i>
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 recieved is not configured as a valid MAC address for this interface.

ESWD_LEARNT_FDB_MEMORY_ERROR

System Log Message	FDB entry for <i>error-message</i> 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 <i>interface-name</i> 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

Severity alert
Facility LOG_DAEMON

ESWD_MAC_LIMIT_BLOCK

System Log Message MAC limit (*limit*) exceeded at *interface-name*: shutting down the interface

Description Interface was blocked because the number of MAC addresses learned on an interface has exceeded the user configured limit.

Type Error: An error occurred

Severity alert

Facility LOG_DAEMON

Cause More learning requests were received by the system than the user configured.

ESWD_MAC_LIMIT_DROP

System Log Message MAC limit (*limit*) exceeded at *interface-name*: dropping the packet

Description Learning request was dropped because the number of MAC addresses learned on an interface has reached the user configured limit.

Type Error: An error occurred

Severity alert

Facility LOG_DAEMON

Cause More learning requests were received by the system than the user configured.

ESWD_MAC_LIMIT_EXCEEDED

System Log Message MAC limit (*limit*) exceeded at *interface-name*

Description Number of MAC addresses learned on an interface has exceeded the user configured limit.

Type Error: An error occurred

Severity alert

Facility LOG_DAEMON

Cause More learning requests were received by the system than the user configured.

ESWD_MAC_MOVE_LIMIT_BLOCK

System Log Message *mac-move-type* (*limit*) exceeded at *vlan-name* for MAC address *mac-addresse*; shutting down interface *interface-name*

Description 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.

Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON
Cause	A MAC address moved to a different interface more times per second than the user configured.

ESWD_MAC_MOVE_LIMIT_DROP

System Log Message *mac-move-type (limit) exceeded at vlan-name for MAC address mac-addresse; 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.

Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON
Cause	A MAC address moved to a different interface more times per second than the user configured.

ESWD_MAC_MOVE_LIMIT_EXCEEDED

System Log Message *mac-move-type (limit) exceeded at vlan-name for MAC address mac-addresse 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.

Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON
Cause	A MAC address moved to a different interface more times per second than the user configured.

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.

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_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*.

Description 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 ppm: <i>reason (error-message)</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18888 .

ESWD_PPM_WRITE_ERROR

System Log Message	<i>function-name</i> : write error on pipe to ppm: <i>(error-message)</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18889 .

ESWD_STATIC_FDB_MEMORY_WARNING

System Log Message	<i>error-message</i> .
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 <i>error-message</i> . 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
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18890 .

ESWD_STP_LOOP_PROTECT_CLEARED

System Log Message	<i>interface-name</i> : loop protect cleared for instance <i>instance-id</i>
Description	This condition occurs when STP loop protect condition is cleared.
Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON

ESWD_STP_LOOP_PROTECT_IN_EFFECT

System Log Message	<i>interface-name</i> : loop protect in effect for instance <i>instance-id</i>
Description	This condition occurs when STP loop protect condition occurs.
Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON

ESWD_STP_ROOT_PROTECT_CLEARED

System Log Message	<i>interface-name</i> : root protect cleared for instance <i>instance-id</i>
Description	This condition occurs when STP root protect condition is cleared.
Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON

ESWD_STP_ROOT_PROTECT_IN_EFFECT

System Log Message	<i>interface-name</i> : root protect in effect for instance <i>instance-id</i>
Description	This condition occurs when STP root protect condition occurs.
Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON

ESWD_STP_STATE_CHANGE_INFO

System Log Message	<i>context-name</i> state for interface <i>interface-name</i> context id <i>instance-id</i> changed from <i>old-state</i> to <i>new-state</i>
Description	Message is logged to the syslog server when ever there is a state change.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

ESWD_ST_CTL_BW_INFO

System Log Message	<i>interface-name</i> : configured storm control speed <i>level</i> is greater than interface speed <i>bandwidth</i> . 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	<i>interface-name</i> : 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	<i>interface-name</i> : 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	<i>interface-name</i> : 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_VLAN_MAC_LIMIT_EXCEEDED

System Log Message vlan *vlan-name* mac *mac-addresse* (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.

ESWD_VMEMBER_MAC_LIMIT_DROP

System Log Message vlan *vlan-name* mac *mac-addresse* (tag *vlan-id*) interface *interface-name*, per port per vlan limit exceeded
Description Number of MAC addresses learned on a per port per 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 32

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

System Log Message	Unable to send acknowledgment: <i>error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

EVENTD_ALARM_CLEAR

System Log Message	User <i>username</i> cleared alarm: " <i>timestamp: message</i> "
Description	An administrator has acknowledged and cleared a security alarm.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

EVENTD_ALARM_FILE

System Log Message	Could not open the eventd alarm file ' <i>filename</i> ' for writing
Description	The event processing process (eventd) could not open the alarm statistics file for writing.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

EVENTD_AUDIT_DISABLED

System Log Message	Security audit alarm module " <i>module</i> " 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 " <i>module</i> " 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 <i>username</i> viewed security audit log with arguments: <i>arguments</i>
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 ' <i>command</i> '
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_CONFIG_CHANGE_FAILED

System Log Message	Configuration change failed: <i>error-message</i> while executing policy <i>policy-name</i> with user <i>username</i> privileges
Description	The event processing process (eventd) could not execute the commands to change configuration data.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

EVENTD_CONFIG_CHANGE_SUCCESS

System Log Message	Configuration change successful: while executing policy <i>policy-name</i> with user <i>username</i> privileges
Description	The event processing process (eventd) successfully executed the commands to change configuration data.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

EVENTD_ESCRIPT_EXECUTION

System Log Message	Trying to execute the script ' <i>filename</i> ' from ' <i>directory-name</i> '
Description	The event process (eventd) executing the configured event script from the specified location.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

EVENTD_ESCRIPT_NOT_CONFIGURED

System Log Message	Trying to execute the non configured script ' <i>filename</i> ' from ' <i>directory-name</i> '
Description	The event process (eventd) executing the non configured event script from the specified location.
Type	Error: An error occurred
Severity	info
Facility	LOG_DAEMON

EVENTD_EVENT_SEND_FAILED

System Log Message	Unable to send event notification: <i>error-message</i>
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Description 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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action For more information, see [KB18891](#).

EVENTD_FORK_ERR

System Log Message Unable to fork: *error-message*

Description The event processing process (eventd) could not create a child process for executing policies.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action For more information, see [KB18892](#).

EVENTD_JAIL_SOCKET_FAILURE

System Log Message Could not create jail socket: *error-message*

Description The event processing process (eventd) could not create a jail socket.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

EVENTD_PIPE_CREATION_FAILED

System Log Message Unable to create pipe: *error-message*

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

EVENTD_READ_ERROR

System Log Message recvmsg() failed: *error-message*

Description The event processing process (eventd) could not read an event sent to it, for the indicated reason.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

EVENTD_REGEX_INVALID

System Log Message Invalid regular expression '*regular-expression*' provided for attribute value
Description 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.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

EVENTD_REG_VERSION_MISMATCH

System Log Message Registration version *expected-value* did not match expected version (*received-value*)
Description 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.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

EVENTD_ROTATE_COMMAND_FAILED

System Log Message Command '*command*' failed during rotation of file '*filename*': *error-message*
Description The event processing process (eventd) invoked the indicated command while attempting to rotate the indicated file. The command failed.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

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: <i>error-message</i>
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	<i>checksum</i> checksum value does not match for script <i>filename</i>
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 <i>username</i> cleared <i>count</i> 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 ' <i>username</i> ': <i>error-message</i>
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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

EVENTD_SET_TIMER_FAILED

System Log Message	evSetTimer failed: <i>error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

EVENTD_SYSLOG_FWD_FAILED

System Log Message	Unable to forward syslog message to PSD (<i>psd-id</i>), errno: <i>error-code</i>
Description	The event processing process (eventd) encountered a system error when forwarding a syslog message to indicated protected system domain (PSD).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

EVENTD_TEST_ALARM

System Log Message	This is test alarm <i>argument1</i> of <i>argument2</i>
Description	This is an alarm test for the eventd alarm infrastructure.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

EVENTD_TRANSFER_COMMAND_FAILED

System Log Message	Command ' <i>error-code</i> ' failed during transfer of file ' <i>command</i> ': <i>filename</i>
Description	The event processing process (eventd) invoked the indicated command while attempting to transfer the indicated file. The command failed.
Type	Error: An error occurred
Severity	error
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 33

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

System Log Message	<i>reason: index error-message</i>
Description	A system call made by the Fabric OAM (faboamd) failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	It is possible that the kernel did not have enough resources to fulfill the request.

CHAPTER 34

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

System Log Message	Fabric <i>fc-fabric-name</i> fabric-id <i>fc-fabric-id</i> fabric-type <i>fc-fabric-type</i> created
Description	Fibre channel fabric is created.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

FC_FABRIC_DELETED

System Log Message	Fabric <i>fc-fabric-name</i> fabric-id <i>fc-fabric-id</i> fabric-type <i>fc-fabric-type</i> deleted
Description	Fibre channel fabric is deleted.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

FC_FABRIC_WWN_ASSIGNED

System Log Message	Fabric <i>fc-fabric-name</i> fabric-wwn <i>wwn</i> is set
Description	Fabric_WWN has been set for a fibre channel fabric.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

FC_FABRIC_WWN_CLEARED

System Log Message	Fabric <i>fc-fabric-name</i> fabric-wwn is cleared
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Description Fabric_WWN is cleared for a fibre channel fabric.

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

Severity info

Facility LOG_DAEMON

FC_FLOGI_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

FC_LOGICAL_INTERFACE_CREATED

System Log Message Fabric *fc-fabric-name* interface *interface-name* created

Description Fibre channel logical interface is created.

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

Severity info

Facility LOG_DAEMON

FC_LOGICAL_INTERFACE_DELETED

System Log Message Fabric *fc-fabric-name* interface *interface-name* deleted

Description Fibre channel logical interface is deleted.

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

Severity info

Facility LOG_DAEMON

FC_LOGICAL_INTERFACE_ISOLATED

System Log Message Fabric *fc-fabric-name* interface *interface-name* reason - *reason*

Description Fibre channel logical interface is isolated.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause Protocol error or repeated failure must have occurred.

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

System Log Message Fabric *fc-fabric-name* NP_Port *interface-name* added to fabric load balance list

Description NP_Port is added to the fabric load balance list.

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

Severity info

Facility LOG_DAEMON

FC_PROXY_NP_PORT_LB_REMOVED

System Log Message Fabric *fc-fabric-name* NP_Port *interface-name* removed from fabric load balance list

Description NP_Port is removed from the fabric load balance list.

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

Severity info

Facility LOG_DAEMON

FC_PROXY_NP_PORT_LOGIN_ABORTED

System Log Message Fabric *fc-fabric-name* NP_Port *interface-name* login aborted

Description Login from NP_Port has 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_NP_PORT_LOGIN_FAILED

System Log Message Fabric *fc-fabric-name* NP_Port *interface-name* login failed - *error-message*

Description Login from NP_Port has failed.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause NP_Port login is rejected by the fibre channel switch.

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.

CHAPTER 35

FCOE System Log Messages

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

System Log Message	Fabric <i>fc-fabric-name</i> interface <i>interface-name</i> mac <i>mac-address</i> created
Description	Fibre channel over Ethernet logical interface is created.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

FCOE_LOGICAL_INTERFACE_DELETED

System Log Message	Fabric <i>fc-fabric-name</i> interface <i>interface-name</i> mac <i>mac-address</i> deleted
Description	Fibre channel over Ethernet logical interface is deleted.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

FCOE_LOGICAL_INTERFACE_ISOLATED

System Log Message	Fabric <i>fc-fabric-name</i> interface <i>interface-name</i> mac <i>mac-address</i> reason - <i>reason</i>
Description	Fibre channel over Ethernet logical interface is isolated.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	Protocol error or repeated failure must have occurred.
Action	Check physical connection and reason code for isolation.

Action Interface disable followed by enable might clear this problem.

CHAPTER 36

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

System Log Message	Fabric <i>fc-fabric-name</i> interface <i>interface-name</i> enode-mac <i>enode-mac-address</i>
Description	FIP end node is removed from a fibre channel fabric.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

FIP_ENODE_FKA_TIMER_EXPIRED

System Log Message	Fabric <i>fc-fabric-name</i> interface <i>interface-name</i> enode-mac <i>enode-mac-address</i> keepalive timer expired
Description	FIP end node keepalive timer expired.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

FIP_ENODE_LEARNED

System Log Message	Fabric <i>fc-fabric-name</i> interface <i>interface-name</i> enode-mac <i>enode-mac-address</i>
Description	FIP End node is learnt on a fibre channel fabric.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

FIP_MAX_FCOE_FILTERS_REACHED

System Log Message	Maximum number of allowed FCoE filters (<i>slot</i>) reached for this slot <i>maximum-value</i>
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Description Maximum number of allowed FCoE filters reached.

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

Severity warning

Facility LOG_DAEMON

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.

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

Severity warning

Facility LOG_DAEMON

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.

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

Severity info

Facility LOG_DAEMON

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.

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

Severity info

Facility LOG_DAEMON

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 <i>fc-fabric-name</i> interface <i>interface-name</i> enode-mac <i>enode-mac-address</i> wwn <i>wwn</i> - <i>reason</i>
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. Its 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 <i>fc-fabric-name</i> interface <i>interface-name</i> enode-mac <i>enode-mac-address</i> wwn <i>wwn</i> vn-mac <i>vn-mac-address</i> fcid <i>fcid</i>
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 <i>fc-fabric-name</i> interface <i>interface-name</i> enode-mac <i>enode-mac-address</i> wwn <i>wwn</i> vn-mac <i>vn-mac-address</i> fcid <i>fcid</i>
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

CHAPTER 37

FIPS System Log Messages

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

System Log Message *username :test-name* Known Answer Test: Passed

Description FIPS Known Answer Test passed.

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

Severity info

Facility ANY

CHAPTER 38

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

System Log Message	Application <i>service-name</i> policy violation occurred <i>threshold</i> times within <i>time-period</i> seconds
Description	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.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_PFE

FLOW_DSTIP_POLICY_VIOLATION

System Log Message	Destination ip <i>destination-address</i> policy violation occurred <i>threshold</i> times within <i>time-period</i> seconds
Description	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.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_PFE

FLOW_HIGH_WATERMARK_TRIGGERED

System Log Message	Number of sessions <i>current-flows</i> exceeded the high watermark <i>limit</i> . 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_HIGH_WATERMARK_TRIGGERED_LS

System Log Message *Lsys logical-system-name*: 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 --> 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-name*: Flow IP action detected attack attempt:*source-address/source-port --> 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 <i>source-address</i> destination <i>destination-address</i> ipid <i>assembly-id</i> 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 <i>source-address</i> policy violation occurred <i>threshold</i> times within <i>time-period</i> 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 <i>slot</i>
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 <i>process-name</i>
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 <i>process-name</i>
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

System Log Message	fpclogin failed: <i>error-message</i>
Description	A user tried to log in to a Physical Interface Module (PIM). The attempt failed for the indicated reason.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

FPCLOGIN_MESSAGE_INVALID

System Log Message	Message from <i>process-name error-message</i>
Description	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).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

FPCLOGIN_SOCKET_OPERATION_FAILED

System Log Message	Unable to complete ' <i>error-message</i> ' operation
Description	The Flexible PIC Concentrator (FPC) login process (pimlogin) could not perform the indicated operation on a routing socket.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHAPTER 40

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

System Log Message	Reason: <i>reason</i>
Description	The configuration file for the File System Access process (fsad) might contain an error.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

FSAD_CONNTIMEDOUT

System Log Message	Connection timed out to the client (<i>connection-type, ip-address</i>) having request type <i>port</i>
Description	The File System Access process (fsad) flushed all state information about the timed-out connection.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

FSAD_DIR_CREATE

System Log Message	Failed to create directory <i>directory-name: error-message</i>
Description	The File System Access process (fsad) could not create the indicated directory.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

FSAD_DIR_STAT

System Log Message	<i>function-name: stat()</i> failed for pathname <i>pathname: reason</i>
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 <i>enclosing-function-name: function-name()</i> returned: <i>reason</i>
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	<i>enclosing-function-name: function-name</i> failed for file ' <i>filename</i> ' with error message <i>reason</i>
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 ' <i>filename</i> ': <i>reason</i>
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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 ' <i>source-filename</i> ' to ' <i>destination-filename</i> ': <i>reason</i>
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	<i>function-name</i> : stat() failed for file pathname <i>pathname</i> : <i>reason</i>
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 ' <i>filename</i> ': <i>reason</i>
---------------------------	--

Description 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 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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

FSAD_GEN_IPC_PAYLOAD_SIZE

System Log Message Received 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 an IPC message in which the payload length was incorrect.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

FSAD_GEN_IPC_SUBTYPE

System Log Message Received 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 an IPC message in which the subtype field was incorrect.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

FSAD_GEN_IPC_TYPE

System Log Message Received 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 an IPC message in which the type field was incorrect.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

FSAD_GEN_IPC_VERSION

System Log Message Received generic IPC message with incorrect version *received-value* (expected version *expected-value*)

Description The File System Access process (fsad) received an IPC message in which the version field was incorrect.

Type Error: An error occurred

Severity error
Facility LOG_DAEMON

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

System Log Message	Must be run as root
Description	The user who attempted to start the File System Access process (fsad) was not the root user.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

FSAD_PARENT_DIRECTORY

System Log Message	<i>directory-name</i> : invalid directory: <i>message</i>
Description	The parent directory specified in the request for a file was not valid.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Make sure the path specified in the request is valid.

FSAD_PATH_IS_DIRECTORY

System Log Message	File path cannot be a directory (<i>pathname</i>)
Description	The File System Access process (fsad) received a request on a directory instead of a regular file.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	The file path points to a directory.
Action	Make sure the path points to a regular file.

FSAD_PATH_IS_NOT_DIRECTORY

System Log Message	invalid path ' <i>pathname</i> ' : not a directory : <i>action</i>
Description	The File System Access process (fsad) received a request for a pathname that was not a directory.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

FSAD_PATH_IS_SPECIAL

System Log Message	Not a regular file (<i>pathname</i>)
Description	The File System Access process (fsad) received a request for a pathname that points to a nonregular file.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Make sure the path points to a regular file.

FSAD_RECVERROR

System Log Message	fsad received error <i>message</i> from client having request type <i>connection-type</i> at (<i>ip-address</i> , <i>port</i>)
Description	The File System Access process (fsad) received a packet with the indicated error message from the other end of a connection.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

FSAD_RENAME

System Log Message	<i>function-name</i> : failed to rename temporary file <i>filename</i> to <i>new-filename</i> : <i>reason</i>
Description	The File System Access process (fsad) could not rename the indicated temporary file for the indicated reason.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

FSAD_TERMINATED_CONNECTION

System Log Message	Open file ' <i>filename</i> ' closed due to process shutdown
Description	The File System Access process (fsad) terminated a connection, stored the connection's (unwritten) data to disk, and purged it from its data structures.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

FSAD_TRACEOPEN_FAILED

System Log Message	Open operation on trace file ' <i>pathname</i> ' returned error <i>error-message</i>
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, <i>message</i>
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.

CHAPTER 41

FUD System Log Messages

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

System Log Message	Unknown option " <i>option</i> "
Description	One or more options provided on the 'fud' command line were invalid. The UDP forwarding process (fud) initialized but ignored the invalid options.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Reissue the 'fud' command with the correct options.

FUD_BAD_SERVER_ADDR_FAILURE

System Log Message	Destination address of <i>destination-address</i> is invalid
Description	One or more server addresses configured for the UDP forwarding process (fud) were invalid.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Reconfigure the fud process with valid server addresses.

FUD_BIND_FAILURE

System Log Message	bind(port <i>port</i>) failed: <i>error-message</i>
Description	The UDP forwarding process (fud) received the indicated error when it tried to bind a socket to a local address.
Type	Error: An error occurred

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: <i>error-message</i>
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 <i>count</i> bytes of memory: <i>error-message</i>
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	<i>program-name</i> 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 <i>program-name</i> 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 <i>program-name</i>
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: <i>error-message</i>
Description	The UDP Forwarding process (fud) could not write to its routing socket for the indicated reason.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see KB18898 .

FUD_SENDSMSG_FAILURE

System Log Message sendmsg() to *destination-address* port *port* on interface *interface-name* rt_inst *routing-instance* failed: *error-message*

Description 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.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see KB18899 .

FUD_SENDSMSG_NOINT_FAILURE

System Log Message sendmsg() to *destination-address* port *port* rt_inst *routing-instance* failed: *error-message*

Description 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.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see KB18900 .

FUD_SETSOCKOPT_FAILURE

System Log Message setsockopt(*arguments*) failed: *error-message*

Description The UDP Forwarding process (fud) could not set the indicated socket option.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see KB18901 .

FUD_SOCKET_FAILURE

System Log Message	socket(<i>arguments</i>) failed: <i>error-message</i>
Description	The UDP Forwarding process (fud) could not create a socket.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see KB18902 .

CHAPTER 42

FWAUTH System Log Messages

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.

FWAUTH_FTP_LONG_PASSWORD

System Log Message	Authentication for user <i>username</i> at <i>client-address</i> 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
Facility	LOG_PFE

FWAUTH_FTP_LONG_PASSWORD_LS

System Log Message	<i>Lsys logical-system-name</i> : Authentication for user <i>username</i> at <i>client-address</i> 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
Facility	LOG_PFE

FWAUTH_FTP_LONG_USERNAME

System Log Message	Authentication for user <i>username</i> at <i>client-address</i> was denied (long username).
Description	The length of the username must not exceed 64 characters.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_PFE

FWAUTH_FTP_LONG_USERNAME_LS

System Log Message	<i>Lsys logical-system-name</i> : Authentication for user <i>username</i> at <i>client-address</i> was denied (long username).
---------------------------	--

Description The length of the username must not exceed 64 characters.

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

Severity info

Facility LOG_PFE

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.

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

Severity info

Facility LOG_PFE

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.

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

Severity info

Facility LOG_PFE

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.

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

Severity info

Facility LOG_PFE

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.

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

Severity info

Facility LOG_PFE

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

Facility LOG_PFE

FWAUTH_TELNET_LONG_PASSWORD_LS

System Log Message Lsys *logical-system-name*: 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

Facility LOG_PFE

FWAUTH_TELNET_LONG_USERNAME

System Log Message Authentication for user *username* at *client-address* was denied (long username).

Description The length of username must not exceed 64 characters.

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

Severity info

Facility LOG_PFE

FWAUTH_TELNET_LONG_USERNAME_LS

System Log Message Lsys *logical-system-name*: Authentication for user *username* at *client-address* was denied (long username).

Description The length of username must not exceed 64 characters.

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

Severity info

Facility LOG_PFE

FWAUTH_TELNET_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_TELNET_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_TELNET_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_TELNET_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_WEBAUTH_FAIL

System Log Message WebAuth user *username* at *client-address* is rejected/timed out.
Description The provided user credentials are not valid.

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

FWAUTH_WEBAUTH_FAIL_LS

System Log Message *Lsys logical-system-name: WebAuth user username at client-address is rejected/timed out.*
Description The provided user credentials are not valid.

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

FWAUTH_WEBAUTH_SUCCESS

System Log Message 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

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

CHAPTER 43

GPRSD System Log Messages

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

System Log Message	Unable to allocate <i>count</i> bytes of memory
Description	The general packet radio service daemon process (gprsd) 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.

GPRSD_RESTART_CCFG_READ_FAILED

System Log Message	Subcomponent could not read configuration database
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHAPTER 44

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

System Log Message	Detected change in IP addresses for host: <i>hostname</i>
Description	The hostname-caching process (hostname-cached) detected that the set of IP addresses for the specified hostname changed
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

HNCACHED_NAME_RESOLUTION_FAILURE

System Log Message	Failed to resolve hostname: <i>hostname</i> (<i>error-message</i>)
Description	The hostname-caching process (hostname-cached) failed to resolve the specified hostname for indicated reason
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	1) If the hostname used in config is incorrect, fix it. 2) Ensure that the configured name-server is reachable and is working.

CHAPTER 45

ICCPD System Log Messages

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 <i>line-number</i> in file ' <i>source-filename</i> ' with error " <i>message</i> ", but iccpd with PID <i>pid</i> 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	<i>error-message</i> : 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 <i>client-name</i> : <i>reason</i> (<i>error-message</i>)
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 <i>client-name</i> :
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.

IDP System Log Messages

IDP_APPDDOS_APP_ATTACK_EVENT

IDP_APPDDOS_APP_ATTACK_EVENT_LS

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

IDP_APPDDOS_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

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

IDP_APPDDOS_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

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

IDP_ATTACK_LOG_EVENT

System Log Message 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*,
intf:*source-zone-name:source-interface-name->destination-zone-name:destination-interface-name*, packet-log-id: *packet-log-id* and misc-message *message*

Description	IDP Attack log generated for attack
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_PFE

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*,
 intf:*source-zone-name:source-interface-name->destination-zone-name:destination-interface-name*,
 packet-log-id: *packet-log-id* and misc-message *message*

Description	IDP Attack log generated for attack
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_PFE

IDP_COMMIT_COMPLETED

System Log Message IDP policy commit is complete.

Description	IDP policy commit has completed. Policy compile and load however may have been a success or failure.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_AUTH

IDP_COMMIT_FAILED

System Log Message IDP policy commit failed. Exiting from compilation.

Description	There was an error while trying to commit the active policy in IDPD. Device will continue running the current IDP policy.
Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH

IDP_DAEMON_INIT_FAILED

System Log Message	Aborting...A failure was encountered; <i>error-message</i>
Description	An attempt to start IDP policy daemon failed because an error was encountered during initialization.
Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH
Action	For more information, see KB18909 .

IDP_IGNORED_IPV6_ADDRESSES

System Log Message	IDP ignores IPv6 addresses for the ' <i>rulebase-name</i> '
Description	IDP IPv6 support is not enabled for the rulebase.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_AUTH

IDP_INTERNAL_ERROR

System Log Message	Encountered an error(<i>error-message</i>)
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[<i>idp-policy</i>] failed : [<i>reason</i>]
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[<i>idp-policy</i>], detector[<i>idp-detector</i>] ,failure detail[<i>reason</i>]
---------------------------	--

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

System Log Message Failed to unload IDP policy. reason: *reason*.

Description A running IDP policy could not be unloaded from IDP engine. Device will continue running the IDP policy.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

IDP_POLICY_UNLOAD_SUCCEEDED

System Log Message IDP policy unloaded successfully.

Description A running IDP policy was unloaded successfully from the IDP engine.

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

Severity notice

Facility LOG_AUTH

IDP_SCHEDULEDUPDATE_START_FAILED

System Log Message Failed to start scheduled update(*error:error-message*)

Description The scheduled IDP security package update failed to start. Device will try it again at the next scheduled time

Type Error: An error occurred

Severity error

Facility LOG_AUTH

IDP_SCHEDULED_UPDATE_STARTED

System Log Message Scheduled update has started(at *timestamp*)

Description The scheduled IDP security package update has started.

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

Severity notice

Facility LOG_AUTH

IDP_SECURITY_INSTALL_RESULT

System Log Message security package install result(*status*)

Description IDP background process has returned the security package install result

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

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

CHAPTER 47

JADE System Log Messages

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 <i>junoscript</i> 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 ' <i>username</i> ' : <i>error-message</i>
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 ' <i>username</i> '
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: <i>error-message</i>
---------------------------	---

Description The JUNOScript authentication process (jade) could not start because of an internal error.

Type Error: An error occurred

Severity error

Facility ANY

JADE_IRI_AUTH_SUCCESS

System Log Message Authentication succeeded for user '*username*' over IRI '*routing-instance*'

Description The jade authentication process authenticated the indicated user over IRI.

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

Severity notice

Facility ANY

JADE_PAM_ERROR

System Log Message PAM error: *error-message*

Description The JUNOScript authentication process (jade) could not process the credentials supplied by the client.

Type Error: An error occurred

Severity error

Facility ANY

JADE_PAM_NO_LOCAL_USER

System Log Message Unable to get local username from PAM: *error-message*

Description The JUNOScript authentication process (jade) could not obtain a local username while processing the credentials supplied by the client.

Type Error: An error occurred

Severity error

Facility ANY

JADE_SOCKET_ERROR

System Log Message Socket operation '*operation*' failed: *error-message*

Description The indicated socket operation, initiated by the JUNOScript authentication process (jade), failed for the indicated reason.

Type Error: An error occurred

Severity error

Facility ANY

CHAPTER 48

JCS System Log Messages

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 <i>slot</i> load BBD failure: <i>error-message</i>
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 <i>slot</i> BBD <i>error-message</i> mismatch (<i>expected-value</i> != <i>received-value</i>)
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18913 .

JCS_BBD_NOT_FOUND

System Log Message	Blade <i>slot</i> 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
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18914 .

JCS_BBD_NOT_VALID

System Log Message	Blade <i>slot</i> 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18915 .

JCS_BBD_PARSE_ERROR

System Log Message	Blade <i>slot</i> bay data parse error - <i>error-message</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18916 .

JCS_BBD_PEER_MISMATCH

System Log Message	Peer blade <i>slot</i> BBD <i>error-message</i> mismatch (<i>expected-value</i> != <i>received-value</i>)
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18917 .

JCS_BBD_SYSTEM_CONFLICT

System Log Message	Local BBD <i>error-message</i> (<i>value</i>) conflicts with blade <i>slot</i>
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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_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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 http://kb.juniper.net/InfoCenter/index?page=content&id=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 <i>slot</i> is <i>state</i>
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 (<i>error-code</i>)
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18920 .

JCS_READ_BBD_ERROR

System Log Message	Read blade bay data (<i>error=error-code</i>)
Description	The indicated error occurred when attempting to read the current blade bay data via a sysctl call.
Type	Error: An error occurred

Severity	error
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18921 .

JCS_SWITCH_BANDWIDTH_CONFIG

System Log Message	Switch <i>slot</i> bandwidth <i>value1</i> percent (<i>value2</i> KBPS)
Description	The indicated JCS Switch Module has changed the bandwidth configuration to the specified value.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

JCS_SWITCH_COMMUNICATION_ERROR

System Log Message	Switch <i>slot</i> communication error (<i>error-message</i>)
Description	The JCS process (jcsd) could not send an SNMP request to the indicated Switch Module because of the indicated error.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18922 .

JDIAMETERD System Log Messages

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 <i>diameter-function</i> cannot generate handshake, disconnecting
Description	The Diameter process(<code>jdiameterd</code>) 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 <i>pathname</i> does not match any application
Description	The Diameter process(<code>jdiameterd</code>) 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(<code>jdiameterd</code>) 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 <i>diameter-function</i> 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 <i>remote-port</i> 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 <i>diameter-function</i> has too many bad end-to-end-ids, disconnecting
Description	A daemon impelenting 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 <i>pathname</i>
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

CHAPTER 50

JIVED System Log Messages

This chapter describes messages with the **JIVED** prefix. They are generated by the mag-service process (jived).

JIVED_ALREADY_RUNNING

System Log Message	Another copy of this program is running
Description	Another instance of the mag-service process (jived) is already running. Only one instance can run at a time.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JIVED_EVLIB_FUNC_FAILED

System Log Message	<i>function-name: event-function-name: reason</i>
Description	A function in the event library used by the mag-service process (jived) failed with the indicated error.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	An internal software failure occurred.

JIVED_INITIATE_CONN_FAILED

System Log Message	<i>function-name: aborting, failed to connect to mgd.</i>
Description	The mag-service process (jived) failed to initiate the connection to RE.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

Cause An internal software failure occurred.

JIVED_INIT_FAILED

System Log Message *error-message: reason*

Description The mag-service process (jived) failed to initialize.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

JIVED_NOT_ROOT

System Log Message JIVED must run as root

Description The mag-service process (jived) must be run with root privileges.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause jived being run without root privilege

JIVED_PIDFILE_LOCK_FAILED

System Log Message Unable to lock pid file

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause Another instance of the jived process is already running.

JIVED_PIDFILE_UPDATE_FAILED

System Log Message can not update process PID file: *reason*

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON
Cause An internal software failure occurred.

JIVED_SNMP_SEND_TRAP_FAILED

System Log Message *error-message: trap*
Description The mag-service process (jived) failed in the attempt to send an SNMP trap
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

JPTSPD System Log Messages

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

System Log Message	JPTSPD failed to initialize
Description	The packet triggered subscriber process (jptspd) initialization failed.
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

System Log Message	Out of memory
Description	The packet triggered subscriber process (jptspd) could not dynamically allocate memory.
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.

JPTSPD_PIC_CONNECTED

System Log Message	JPTSPD connected to pic <i>pic-name</i>
Description	The packet triggered subscriber process (jptspd) connected to a PIC.
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

JPTSPD_PIC_DISCONNECTED

System Log Message	JPTSPD disconnected to pic <i>pic-name reason</i>
Description	The packet triggered subscriber process (jptspd) disconnected to a PIC.
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

JPTSPD_SRC_FAST_SYNC_ABORT

System Log Message	JPTSPD fast synchronization was aborted <i>partition-name</i>
Description	The packet triggered subscriber process (jptspd) aborted fast 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_FAST_SYNC_DONE

System Log Message	JPTSPD fast synchronization was done <i>partition-name</i>
Description	The packet triggered subscriber process (jptspd) finished fast synchronization with SRC.
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

JPTSPD_SRC_FAST_SYNC_START

System Log Message	JPTSPD fast synchronization started <i>partition-name</i>
Description	The packet triggered subscriber process (jptspd) started fast synchronization with SRC.
Type	Event: This message reports an event, not an error

Severity info

Facility ANY

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

JSERVICES System Log Messages

This chapter describes messages with the **JSERVICES** prefix.

JSERVICES_SFW_RULE_ACCEPT

System Log Message *proto protocol-id (protocol-name) application: application, source-address:source-port -> destination-address:destination-port, Match SFW 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 ANY

JSERVICES_SFW_RULE_DISCARD

System Log Message *proto protocol-id (protocol-name) application: application, source-address:source-port -> destination-address:destination-port, Match SFW 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 ANY

JSERVICES_SFW_RULE_REJECT

System Log Message *proto protocol-id (protocol-name) application: application, source-address:source-port -> destination-address:destination-port, Match SFW 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).

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

Severity notice

Facility ANY

CHAPTER 53

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: <i>error-message</i>
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	Nodechassis- <i>id</i> state due to <i>reason</i>
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: <i>error-message</i>
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: <i>error-message</i>
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.

Type Error: An error occurred
Severity warning
Facility LOG_DAEMON

JSRPD_REDUNDANCY_MODE_MISMATCH

System Log Message Change in HA redundancy mode detected..please reboot all nodes in the cluster simultaneously!!

Description 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.

Type Error: An error occurred
Severity warning
Facility LOG_DAEMON

JSRPD_RG_STATE_CHANGE

System Log Message Redundancy-group *rg-id* transitioned from '*old-state*' to '*new-state*' state due to *reason*

Description 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.

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

JSRPD_SET_CS_MON_FAILURE

System Log Message Cold-sync Monitor failed for redundancy-group *rg-id*

Description The Juniper Services Redundancy Protocol process (JSRPD) detected cold-sync monitoring failure for a redundancy group.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

JSRPD_SET_HW_MON_FAILURE

System Log Message hw-mon failed for redundancy-group *rg-id*

Description The Juniper Services Redundancy Protocol process (JSRPD) detected hardware failures.

Type Error: An error occurred
Severity error

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*

Description 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

Facility	LOG_DAEMON
Action	For more information, see KB18925 .

JSRPD_SOCKET_LISTEN_FAILURE

System Log Message	Socket listen (server) failed unexpectedly. <i>error-message</i>
Description	The Juniper Services Redundancy Protocol process (JSRPD) failed to listen on a socket.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB18926 .

JSRPD_SOCKET_RECV_HB_FAILURE

System Log Message	Socket reception of heartbeat from failed unexpectedly <i>error-message</i> .
Description	The Juniper Services Redundancy Protocol process (JSRPD) failed to receive heartbeat.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB18927 .

JSRPD_UNSET_CS_MON_FAILURE

System Log Message	Cold-sync Monitor failure recovered for redundancy-group <i>rg-id</i>
Description	The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous cold-sync monitoring failure no longer exists for a redundancy group.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JSRPD_UNSET_HW_MON_FAILURE

System Log Message	hw-mon failure recovered for redundancy-group <i>rg-id</i>
Description	The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous hardware failures no longer exists for a redundancy group.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JSRPD_UNSET_INTF_MON_FAILURE

System Log Message	Interface Monitor failure recovered for redundancy-group <i>rg-id</i>
Description	The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous interface monitoring failure no longer exists for a redundancy group.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JSRPD_UNSET_IP_MON_FAILURE

System Log Message	IP Monitor failure recovered for redundancy-group <i>rg-id</i>
Description	The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous IP address monitoring failure no longer exists for a redundancy group.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JSRPD_UNSET_LOOPBACK_MON_FAILURE

System Log Message	Previous loopback monitor failure no longer exist for redundancy-group <i>rg-id</i>
Description	The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous data path loopback monitoring failure no longer exists for a redundancy group.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JSRPD_UNSET_MBUF_MON_FAILURE

System Log Message	Previous memory buffer monitor failure no longer exist for redundancy-group <i>rg-id</i>
Description	The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous memory buffer monitoring failure no longer exists for a redundancy group.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JSRPD_UNSET_NEXTHOP_MON_FAILURE

System Log Message	Previous fabric nexthop monitor failure no longer exist for redundancy-group <i>rg-id</i>
Description	The Juniper Services Redundancy Protocol process (JSRPD) detected that the previous fabric nexthop monitoring failure no longer exists for a redundancy group.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

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.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

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.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

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.
Type Error: An error occurred
Severity error
Facility LOG_DAEMON

JSRPD_USAGE

System Log Message Usage: jsrpd [-C] [-N] [-X] [-d debug-level] [-l] [-v]
Description The Juniper Services Redundancy Protocol process (JSRPD) was invoked with incorrect options.
Type Event: This message reports an event, not an error
Severity error

Facility LOG_DAEMON

CHAPTER 54

JTASK System Log Messages

This chapter describes messages with the **JTASK** prefix.

JTASK_ABORT

System Log Message	abort <i>executable-name</i> [<i>pid</i>] version <i>version</i> built by <i>builder</i> on <i>date</i> : <i>error-message</i>
Description	Process terminated because of an internal error.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Examine the messages that immediately follow this message in the system log for information about possible causes.
Cause	An internal software failure occurred.

JTASK_ACTIVE_TERMINATE

System Log Message	Exiting with active tasks: <i>task-name</i>
Description	After receiving multiple termination requests, the process exited without performing the indicated cleanup tasks.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

JTASK_ASSERT

System Log Message	Assertion failed <i>executable-name</i> [<i>pid</i>]: file " <i>source-filename</i> ", line <i>line-number</i> : " <i>message</i> "
Description	The source code for the process includes internal self-consistency checks. A check failed at the indicated line number in the indicated source file, causing the process 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.

JTASK_ASSERT_SOFT

System Log Message	Soft assertion failed <i>executable-name</i> [<i>pid</i>]: file " <i>source-filename</i> ", line <i>line-number</i> : " <i>message</i> ", daemon continued running
Description	The source code for the process includes internal self-consistency checks. A check failed at the indicated line number in the indicated source file, but the process 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.

JTASK_BFD_READ_ERROR

System Log Message	Read error on pipe from bfdd: <i>reason</i> (<i>error-message</i>)
Description	The process 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.

JTASK_BFD_WRITE_ERROR

System Log Message	<i>function-name</i> : write error on pipe to bfdd (<i>error-message</i>)
Description	The process 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.

JTASK_CFG_CALLBACK_LONGRUNTIME

System Log Message	<i>function-name</i> : excessive runtime <i>time</i> during <i>action</i> of <i>module</i>
Description	The indicated submodule of the 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	LOG_DAEMON
Cause	The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

JTASK_CFG_SCHED_CUMU_LONGRUNTIME

System Log Message	<i>function-name</i> : excessive runtime (total of <i>time</i> in <i>count</i> callbacks) after <i>action</i> of <i>module</i>
Description	Several submodules of the 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	LOG_DAEMON
Cause	The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

JTASK_EXIT

System Log Message	Exit <i>executable-name</i> [<i>pid</i>] version <i>version</i> built by <i>builder</i> on <i>date</i> , caller <i>address</i>
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	LOG_DAEMON
Cause	A system resource was unavailable, process 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.

JTASK_LOCK_FLOCKED

System Log Message Unable to obtain a lock on *filename*, is another copy of rpd running?

Description The process could not obtain the mutual exclusion lock that prevents more than one instance of process from running simultaneously. The system terminated the indicated process.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause Another process process is running.

Action Use the 'show system process' command to verify that another process is running.

JTASK_LOCK_LOCKED

System Log Message Unable to obtain a lock on *filename, program-name[pid]* is still running

Description The process could not obtain the mutual exclusion lock that prevents more than one instance of process from running simultaneously. The system terminated this instance of process.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause Another process is running.

Action Use the 'show system process' command to verify that another process is running.

JTASK_MGMT_TIMEOUT

System Log Message Connection to management peer *process-name* timed out waiting for input

Description The connection between the process and the indicated management process (mgd) timed out before input arrived from the mgd process.

Type Error: An error occurred

Severity warning

Facility LOG_DAEMON

JTASK_OS_MEMHIGH

System Log Message	Using <i>size</i> KB of memory, <i>percentage-value</i> percent of available
Description	The process is using the indicated amount and percentage of Routing Engine memory, which is considered excessive.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	Either process 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.
Action	Increase the amount of RAM in the Routing Engine. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB19121 .

JTASK_PARSE_BAD_LR_NAME

System Log Message	<i>executable-name</i> : logical system name " <i>logical-system-name</i> " exceeds <i>count</i> characters
Description	The indicated logical system name exceeds the indicated maximum number of characters.
Type	Error: An error occurred
Severity	error
Facility	ANY
Action	Assign a shorter name.

JTASK_PARSE_BAD_OPTION

System Log Message	<i>executable-name</i> : command-line option <i>option</i> is invalid
Description	The command line used to start the indicated process included the indicated option, which is invalid. The process did not start.
Type	Error: An error occurred
Severity	error
Facility	ANY
Action	Reissue the command without the invalid option.

JTASK_PARSE_CMD_ARG

System Log Message	<i>executable-name</i> : missing required argument for command-line option <i>option</i>
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.

Type	Error: An error occurred
Severity	error
Facility	ANY
Action	Reissue the command and include the required argument. Examine the messages that immediately follow this message in the system log for information about possible causes. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18885 .

JTASK_PARSE_CMD_DUPLICATE

System Log Message	<i>executable-name</i> : command-line option <i>option</i> is a duplicate
Description	The command line used to start the indicated process included the indicated duplicate option. The process did not start.
Type	Error: An error occurred
Severity	error
Facility	ANY
Action	Reissue the command without the duplicate option.

JTASK_PARSE_CMD_EXTRA

System Log Message	<i>executable-name</i> : command-line option <i>option</i> is extraneous
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	ANY
Action	Reissue the command and omit the extraneous option. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18945 .

JTASK_PTHREAD_CREATE

System Log Message	Task pthread worker creation failed
Description	During process initialization, creation of a thread has failed.
Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON
Action	Restart the application from the CLI (e.g. restart routing)

JTASK_SCHED_CUMU_LONGRUNTIME

System Log Message	<i>function-name</i> : excessive runtime (total of <i>time</i> in <i>count</i> callbacks) after <i>action</i> of <i>module</i>
Description	Several submodules of the 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	LOG_DAEMON
Cause	The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

JTASK_SCHED_MODULE_LONGRUNTIME

System Log Message	<i>function-name</i> : excessive runtime <i>time</i> during <i>action</i> of <i>module</i>
Description	Several submodules of the 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	LOG_DAEMON
Cause	The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

JTASK_SCHED_TASK_LONGRUNTIME

System Log Message	<i>function-name</i> ran for <i>total-time</i> (<i>user-time</i> user, <i>system-time</i> system) doing <i>action</i>
Description	A task callback within the 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	LOG_DAEMON
Cause	The duration was noted because task accounting is enabled. The function might be implemented inefficiently.

JTASK_SIGNAL_TERMINATE

System Log Message	<i>signal-name</i> termination signal received
Description	In response to the indicated termination request, the process terminated adjacencies with neighbors and shut down.

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

JTASK_SNMP_CONN_EINPROGRESS

System Log Message	<i>function-name: error-message</i>
Description	The indicated error occurred while the process was connecting to the Simple Network Management Protocol (SNMP) master agent.
Type	Error: An error occurred
Severity	info
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18945 .

JTASK_SNMP_CONN_QUIT

System Log Message	<i>function-name: unable to connect to SNMP agent (pathname): error-message</i>
Description	The process could not connect to the indicated Simple Network Management Protocol (SNMP) master agent.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB18946 .

JTASK_SNMP_CONN_RETRY

System Log Message	<i>function-name: reattempting connection to SNMP agent (pathname): error-message</i>
Description	The process 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

JTASK_SNMP_INVALID_SOCKET

System Log Message	<i>function-name: socket file-descriptor is invalid</i>
Description	The process 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

JTASK_SNMP_SOCKET_BLOCK

System Log Message *function-name*: unable to set nonblocking option

Description The process 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

JTASK_SNMP_SOCKET_RECVBUF

System Log Message *function-name*: unable to set recvbuf option

Description The process 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
Action For more information, see

<http://kb.juniper.net/InfoCenter/index?page=content&id=KB18946>.

JTASK_SNMP_SOCKET_SENDBUF

System Log Message *function-name*: unable to set sendbf option

Description The process 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
Action For more information, see

<http://kb.juniper.net/InfoCenter/index?page=content&id=KB18947>.

JTASK_START

System Log Message Start *executable-name*[*pid*] version *version* built *date*

Description	The process started.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

JTASK_SYSTEM

System Log Message *reason: error-message*

Description	A system call made by the routing protocol process (process) 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 process process will recover.
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB19122 .

JTASK_TASK_CHILDKILLED

System Log Message *task-name terminated by SIGsignal-namecore-dump-status*

Description	While a child process of the 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	LOG_DAEMON

JTASK_TASK_CHILDSTOPPED

System Log Message *task-name stopped by SIGsignal-name*

Description	While a child process of the 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	LOG_DAEMON

JTASK_TASK_DYN_REINIT

System Log Message Dynamic reconfiguration in process

Description	The process reinitialized.
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Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

JTASK_TASK_FORK

System Log Message	Unable to fork <i>task-name: error-message</i>
Description	The routing protocol process failed to create the indicated child process.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JTASK_TASK_GETWD

System Log Message	<i>getwd: error-message</i>
Description	The <code>getwd()</code> system call made by the routing protocol process (process) 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 process process will recover.

JTASK_TASK_MASTERSHIP

System Log Message	Assuming mastership
Description	The process 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	ANY

JTASK_TASK_NOREINIT

System Log Message	Reinitialization not possible
Description	The process 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

JTASK_TASK_PIDCLOSED

System Log Message	Unable to close and remove <i>filename: error-message</i>
Description	The process tried to close and remove the file that records its process ID (PID), which serves to prevent multiple instances of process from running simultaneously. The attempt failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JTASK_TASK_PIDFLOCK

System Log Message	flock(<i>filename</i> , LOCK_EX): <i>error-message</i>
Description	The process issued the flock() system call on the file that records its process ID (PID), which serves to prevent multiple instances of process from running simultaneously. The system call failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JTASK_TASK_PIDWRITE

System Log Message	Unable to write to fd <i>filename: error-message</i>
Description	The process tried to write to the file that records its process ID (PID), which serves to prevent multiple instances of process from running simultaneously. The attempt failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

JTASK_TASK_REINIT

System Log Message	Reinitializing
Description	The process reinitialized.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

JTASK_TASK_SIGNALIGNORE

System Log Message	sigaction(SIG <i>signal-name</i>): <i>error-message</i>
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Description The process 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

JTASK_TERMINATE_DISK_SPACE

System Log Message disk full, terminating *executable-name*[*pid*] version *version* built by *builder* on *date*.BACKTRACE: *message*

Description The routing process has terminated due to no disk space available.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause disk-full

Action Examine disk storage, especially /tmp and /var/tmp, for old or obsolete files such as old core files or old log files that can be safely removed.

CHAPTER 55

JTRACE System Log Messages

This chapter describes messages with the **JTRACE** prefix.

JTRACE_FAILED

System Log Message	Unable to write to trace file <i>filename</i>
Description	This process could not write to the indicated trace file, and stopped attempting to do so. The next commit of the configuration database will reenables tracing.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

CHAPTER 56

KMD System Log Messages

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 <i>pool-name</i> : 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 <i>interface-name.interface-unit</i> to pool <i>pool-name</i> : 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 <i>pool-name</i> : 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.

Type Error: An error occurred
Severity error
Facility LOG_AUTH

KMD_CFG_IF_ID_POOL_RETURN_FAILED

System Log Message Unable to return logical interface to 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 return a logical interface to the indicated pool, because it could not access the pool.

Type Error: An error occurred
Severity error
Facility LOG_AUTH

KMD_DPD_FAILOVER_MANUAL_TUNNEL

System Log Message Tunnel *tunnel-name* did not fail over: it is manual type

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 for the indicated tunnel, which is configured as a manual type and so does not support failover.

Type Error: An error occurred
Severity error
Facility LOG_AUTH

KMD_DPD_FAILOVER_MAX_ATTEMPTS

System Log Message Number of failover attempts exceeded limit *count* for tunnel *tunnel-name*

Description 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.

Type Error: An error occurred
Severity error
Facility LOG_AUTH

Cause Failover attempts can fail repeatedly if both the primary and backup peers are unreachable during the failover.

KMD_DPD_FAILOVER_NO_ACTIVE_PEER

System Log Message Tunnel *tunnel-name* did not fail over: no active peer configured

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 the configuration for the indicated tunnel does not include information about an active peer.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

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*

Description 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-1negotiation. 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.

Type Error: An error occurred
Severity error
Facility LOG_SYSLOG

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.

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

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.

Type Error: An error occurred
Severity error
Facility LOG_AUTH

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.

Type Error: An error occurred
Severity error
Facility LOG_AUTH

KMD_PM_PROTO_INVALID

System Log Message Invalid protocol *protocol-id* was negotiated for SA *sa-name*

Description 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: <i>local-address</i> , Remote gateway: <i>remote-address</i> , Local ID: <i>local-initiator</i> , Remote ID: <i>remote-responder</i> , Direction: <i>argument1</i> , SPI: <i>index1</i> , AUX-SPI: <i>index2</i> , Mode: <i>mode</i> , Type: <i>type</i>
Description	A security association has ben 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 <i>sa-name</i> in service set <i>service-set</i>
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 <i>sa-name</i>
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 <i>sa-name</i>
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 <i>service-set</i> rejecting request to delete SPI size <i>sizeu</i> != 4 Local gateway <i>local-address:local-port</i> , Remote gateway <i>remote-address:remote-port</i>
Description	The SPI size in the delete notification is invalid. Hence delete request is rejected. Quick Mode notification payload is dropped.
Type	Error: An error occurred
Severity	error
Facility	LOG_SYSLOG

KMD_PM_UNEQUAL_PAYLOAD_LENGTH

System Log Message	Inconsistent payload lengths in Quick Mode responder life time notification from <i>remote-address:remote-port</i>
Description	IKE Quick Mode notification is dropped because of unequal payload length received in the message.
Type	Error: An error occurred
Severity	error
Facility	LOG_SYSLOG

KMD_PM_UNINITIALISE_ERROR

System Log Message	Invalid policy managerhandle to uninitialized <i>service-set</i>
Description	Failed to uninitialized the Policy manager object while deleting the indicated service set.
Type	Error: An error occurred
Severity	error
Facility	LOG_SYSLOG

KMD_PM_UNINITIALIZE_FAILED

System Log Message	Unable to uninitialized service set <i>service-set</i> : 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 uninitialized the policy manager object for the service set.
Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH

KMD_PM_UNKNOWN_P1_IDENTITIES

System Log Message	Failed to initiate the Phase-1 negotiation for local: <i>local-peer</i> and remote: <i>remote-peer</i> in instance: <i>service-set</i>
Description	Phase-1 negotiation can not be started because either the local gateway identity or the remote gateway identity is unknown.
Type	Error: An error occurred
Severity	error
Facility	LOG_SYSLOG

KMD_PM_UNKNOWN_PHASE2_ENTITIES

System Log Message	No Phase-2 entities present in tunnel configuration block <i>sa-name</i>
Description	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 configuratin block refers to the tunnel configured under a service set with a given rule name and term name.
Type	Error: An error occurred
Severity	error
Facility	LOG_SYSLOG

KMD_PM_UNKNOWN_QM_NOTIFICATION

System Log Message	Unknown Quick mode notification <i>notification-name (notification-type)</i> (size <i>length</i> bytes) from <i>remote-address:remote-port</i> for protocol= <i>protocol-idd</i> spi(<i>sizeu</i>)= <i>data</i>
Description	The notification message sent by the indicated remote gateway and remote port is not recognized. Hence Quick Mode notification payload is dropped.
Type	Error: An error occurred
Severity	error
Facility	LOG_SYSLOG

KMD_PM_UNSUPPORTED_KEY

System Log Message	Key type = <i>type</i> , not supported
Description	The specified key type is unsupported. Public/Private and Pre-shared key are the only types supported presently.
Type	Error: An error occurred
Severity	error
Facility	LOG_SYSLOG

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 <i>pic-slot</i> sent additional response after reply to SNMP query: <i>error-message</i>
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: <i>error-message</i>
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 <i>pic-slot</i> 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 <i>pic-slot</i> ; 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 <i>pic-slot</i> did not respond to SNMP query: <i>error-message</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18933 .

KMD_SNMP_PIC_SLOT_NOT_FOUND

System Log Message	Unable to retrieve slot information for PIC <i>pic-slot</i> ; 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 <i>vpn-name</i> has been set to <i>argument</i> .
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

System Log Message	VPN <i>vpn-name</i> from <i>remote-address</i> is down.
Description	Notification to user that VPN monitor detects IPSec SA is down.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

KMD_VPN_PV_LIFETIME_CHANGED

System Log Message	Config key lifetime changed
Description	The key lifetime has been changed by a user.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

KMD_VPN_PV_PHASE1

System Log Message	IKE Phase-1 Failure: <i>source-address</i> [<i>spi=destination-address</i> , <i>src_ip=error-message</i> , <i>dst_ip=data</i>]
Description	The threshold value set has been reached due to several ike-phase1 failures that have occurred.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

KMD_VPN_PV_PHASE2

System Log Message	IKE Phase-2 Failure: <i>source-address</i> [<i>spi=destination-address</i> , <i>src_ip=error-message</i> , <i>dst_ip=data</i>]
Description	The threshold value set has been reached due to several ike-phase2 failures that have occurred.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

KMD_VPN_PV_PSK_CHANGED

System Log Message	Pre-shared key changed
Description	The pre-shared key has been changed by a user.

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

KMD_VPN_UP_ALARM_USER

System Log Message VPN *vpn-name* from *remote-address* is up.
Description Notification to user that VPN monitor detects IPSec SA is up.
Type Event: This message reports an event, not an error
Severity info
Facility LOG_DAEMON

CHAPTER 57

L2ALD System Log Messages

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(<i>bridge-domain</i>) 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 (<i>mac-address</i>). LE already exists with pbbn_id : <i>pbbn-id</i> . Rejecting LE create with pbbn_id : <i>new-pbbn-id</i>
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: <i>error-message</i>
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 <i>operation</i> (major <i>type</i> , minor <i>subtype</i>): <i>error-message</i>
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 <i>message-type</i> , subtype <i>message-subtype</i> , opcode <i>message-opcode</i>) received with error <i>error-message</i>
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 <i>message</i> , subtype <i>message-type</i>): <i>message-subtype</i>
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 <i>peer-name identifier</i>
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: <i>error-message</i>
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 ' <i>routing-instance</i> ', domain ' <i>bridge-domain:vlan-id</i> '; current count is <i>count</i>
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

System Log Message	Global limit on learned MAC addresses reached; current count is <i>count</i>
Description	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.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON
Action	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.

L2ALD_MAC_LIMIT_REACHED_IF

System Log Message	Limit on learned MAC addresses reached for <i>interface-name</i> ; current count is <i>count</i>
Description	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.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON
Action	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 <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_IFBD

System Log Message	Limit on learned MAC addresses reached for <i>interface-name</i> ; current count is <i>count</i>
Description	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.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON
Action	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 <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 ' <i>routing-instance</i> '; current count is <i>count</i>
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 ' <i>routing-instance</i> ', domain ' <i>bridge-domain:vlan-id</i> '; current count is <i>count</i>
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 <i>count</i>
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 <i>interface-name</i> ; current count is <i>count</i>
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 ' <i>routing-instance</i> '; current count is <i>count</i>
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_MAC_MOVE_NOTIF_EXTENSIVE

System Log Message	MAC Move on <i>error-message</i>
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 with details on the interface, bridge-domain.
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. This message is invoked based on the user configurable knob

L2ALD_MALLOC_FAILED

System Log Message	Unable to allocate memory: <i>error-message</i>
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: <i>error-message</i>
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 <i>interface-name</i> ; name exceeds limit of <i>length</i> 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 <i>interface-family</i> ; name exceeds limit of <i>length</i> characters
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

L2ALD_NAME_LENGTH_IF_LOGICAL

System Log Message	Unable to add logical interface <i>interface-name</i> ; name exceeds limit of <i>length</i> characters
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

L2ALD_PBBN_IFL_REVA

System Log Message	Unable to initialize Provider Backbone Bridging on interface <i>interface-name</i> . It is present on a Rev A card.
Description	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.

Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Cause	Revision A cards do not support provider backbone bridging (PBB) features.
Action	Contact your technical support representative.

L2ALD_PBBN_REINSTATE_IFBDS

System Log Message Hardware VCs are being restored for data packet.They were de-programmed because *interface-name* had an interface on a Rev A card.

Description 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.

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](#).

CHAPTER 58

L2CPD System Log Messages

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

System Log Message	Assertion failed for <i>executable-name</i> (PID <i>pid</i>) at line <i>line-number</i> in file ' <i>source-filename</i> ': <i>message</i>
Description	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.
Type	Error: An error occurred
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 KB18937 .

L2CPD_ASSERT_SOFT

System Log Message	Assertion failed for <i>executable-name</i> (PID <i>pid</i>) at line <i>line-number</i> in file ' <i>source-filename</i> ' (<i>message</i>); process continued running
Description	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.
Type	Error: An error occurred

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	<i>l2cpd</i> process with PID <i>pid</i> exited (was using executable <i>executable-name</i> , version <i>version</i> built by <i>builder</i> on <i>date</i>); caller was <i>address</i>
Description	The Layer 2 Control Protocol process (<i>l2cpd</i>) 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 <i>l2cpd</i> 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 (<i>kernel-version</i>) of routing sockets was not required version (<i>l2cpd-version</i>)
Description	The Layer 2 Control Protocol process (<i>l2cpd</i>) 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 (<i>kernel-version</i>) of routing socket message type <i>message-type</i> is older than the required version (<i>l2cpd-version</i>)
Description	The Layer 2 Control Protocol process (<i>l2cpd</i>) 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

Facility LOG_DAEMON
Action Upgrade the kernel package.

L2CPD_KERNEL_VERSION_UNSUPP

System Log Message Kernel version of routing socket message type '*message-type*' was not required version (*l2cpd-version*)

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Upgrade the kernel package.

L2CPD_MEMORY_EXCESSIVE

System Log Message Using *size* KB of memory, *percentage-value* percent of available

Description The Layer 2 Control Protocol process (l2cpd) was using the indicated amount and percentage of Routing Engine memory, which is considered excessive.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause 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.

Action Increase the amount of RAM in the Routing Engine.

L2CPD_MGMT_TIMEOUT

System Log Message Peer *peer-name* timed out

Description The Layer 2 Control Protocol process (l2cpd) did not receive input from the indicated management peer within the timeout period.

Type Error: An error occurred

Severity warning

Facility LOG_DAEMON

Cause Messages that immediately follow this message in the system log might provide information about possible causes.

L2CPD_MIRROR_ERROR

System Log Message	Unable to establish mirror connection between Routing Engines: <i>error-message</i>
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: <i>error-message</i>
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 ppmmd: <i>reason (error-message)</i>
Description	The Layer 2 Control Protocol process (l2cpd) could not read a message available on the read pipe from the periodic packet management process (ppmmd).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

L2CPD_PPM_WRITE_ERROR

System Log Message	<i>function-name</i> : write error on pipe to ppm (error-message)
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

System Log Message	<i>function-name</i> : runtime was excessive (<i>time</i>) during <i>action</i> of <i>module</i>
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

System Log Message	<i>function-name</i> : runtime was excessive (<i>time</i>) during <i>action</i> of <i>module</i>
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

System Log Message	<i>function-name</i> : runtime was excessive (<i>total-time</i> [<i>user-time</i> user, <i>system-time</i> system]) doing <i>action</i>
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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_TASK_BEGIN

System Log Message	<i>l2cpd process started (version l2cpd-version built on date by builder)</i>
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	<i>Child process 'task-name' terminated by SIGsignal-name core-dump-status</i>
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
Facility	LOG_DAEMON

L2CPD_TASK_CHILD_STOPPED

System Log Message	<i>Child process 'task-name' stopped by SIGsignal-name</i>
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	<i>Unable to fork task-name: error-message</i>
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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(<i>filename</i> , LOCK_EX): <i>error-message</i>
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 <i>filename</i> : <i>error-message</i>
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_TERMINATE_ACTIVE

System Log Message	Exited with active tasks: <i>task-name</i>
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 <i>signal-name</i>
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 <i>filename</i>
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 reenables 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 <i>error-message</i> 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

CHAPTER 59

L2TPD System Log Messages

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 <i>profile-name</i> (L2TP tunnel <i>tunnel-id</i> , session <i>session-id</i>): <i>error-message</i>
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 <i>tunnel-id</i> , session <i>session-id</i>): <i>error-message</i>
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 <i>node-name</i> 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 <i>node-name</i> 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 <i>object-name</i> in internal database: <i>error-message</i>
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: <i>error-message</i>
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: <i>error-message</i>
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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_EVLIB_FD_SELECT_FAILED

System Log Message Unable to select file descriptor for events *event-id: error-message*
Description The Layer 2 Tunneling Protocol process (l2tpd) could not select the file descriptor for the indicated events.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_EVLIB_TIMER_CLEAR_FAILED

System Log Message Unable to clear event timer: *error-message*
Description The Layer 2 Tunneling Protocol process (l2tpd) could not clear an event timer for the indicated reason.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_EVLIB_TIMER_SET_FAILED

System Log Message Unable to set event timer: *error-message*
Description The Layer 2 Tunneling Protocol process (l2tpd) could not set an event timer for the indicated reason.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_FILTER_FILE_OPEN_FAILED

System Log Message Unable to open file *filename*
Description The Layer 2 Tunneling Protocol process (l2tpd) could not open the indicated filter file.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_GLOBAL_CFG_ADD_FAILED

System Log Message	Unable to add global configuration for PIC <i>pic-slot</i> (errno <i>error-code</i>)
Description	The Layer 2 Tunneling Protocol process (l2tpd) could not add the global configuration for the indicated PIC.
Type	Error: An error occurred
Severity	error
Facility	LOG_NEWS

L2TPD_GLOBAL_CFG_CHANGE_FAILED

System Log Message	Unable to change global configuration for PIC <i>pic-slot</i> (errno <i>error-code</i>)
Description	The Layer 2 Tunneling Protocol process (l2tpd) could not change the global configuration for the indicated PIC.
Type	Error: An error occurred
Severity	error
Facility	LOG_NEWS

L2TPD_GLOBAL_CFG_DELETE_FAILED

System Log Message	Unable to delete global configuration for PIC <i>pic-slot</i> (errno <i>error-code</i>)
Description	The Layer 2 Tunneling Protocol process (l2tpd) could not delete the global configuration for the indicated PIC.
Type	Error: An error occurred
Severity	error
Facility	LOG_NEWS

L2TPD_IFD_ADD_FAILED

System Log Message	<i>function-name</i> : unable to add interface device <i>interface-name</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_NEWS

L2TPD_IFD_DELETE_FAILED

System Log Message	<i>function-name</i> : unable to delete interface device <i>interface-name</i>
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Description The Layer 2 Tunneling Protocol process (l2tpd) maintains a copy of the Junos configuration database in memory. It could not delete the indicated interface device from the in-memory database.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_IFL_DELETE_FAILED

System Log Message *function-name*: unable to delete interface *interface-name*

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_IFL_MSG_REGISTER_FAILED

System Log Message Unable to register message handler for interface: *error-message*

Description The Layer 2 Tunneling Protocol process (l2tpd) could not register a logical interface message handler.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_IFL_NOT_FOUND

System Log Message Unable to find logical interface (L2TP tunnel *tunnel-id*, session *session-id*)

Description The Layer 2 Tunneling Protocol process (l2tpd) could not retrieve a logical interface in the indicated tunnel and session.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_IFL_ROOT_ALLOC_FAILED

System Log Message Unable to allocate memory for interface 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 a logical interface.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_INSTANCE_CREATE_FAILED

System Log Message Unable to create L2TP instance *tunnel-group*

Description The Layer 2 Tunneling Protocol process (l2tpd) could not create an L2TP instance for the indicated tunnel group.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_INSTANCE_RESTART_FAILED

System Log Message Unable to trigger restart of L2TP instance *tunnel-group*
Description The Layer 2 Tunneling Protocol process (l2tpd) could not restart the L2TP instance for the indicated tunnel group.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_INTERFACE_ID_NOT_FOUND

System Log Message Unable to find interface ID *interface-name*
Description 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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_MESSAGE_REGISTER_FAILED

System Log Message Unable to register L2TP message handler: *error-message*
Description The Layer 2 Tunneling Protocol process (l2tpd) could not register an L2TP message handler.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_MLPPP_BUNDLE_ALLOC_FAILED

System Log Message Unable to allocate MLPPP bundle
Description The Layer 2 Tunneling Protocol process (l2tpd) could not allocate memory for a multilink Point-to-Point Protocol (MLPPP) bundle.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_MLPPP_BUNDLE_CREATE_FAILED

System Log Message	Unable to create MLPPP bundle (L2TP tunnel <i>tunnel-id</i> , session <i>session-id</i>)
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 <i>tunnel-id</i> , session <i>session-id</i>)
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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_MLPPP_ID_NODE_ADD_FAILED

System Log Message Unable to add node for bundle *bundle* to MLPPP ID map

Description 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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_MLPPP_ID_ROOT_ALLOC_FAILED

System Log Message Unable to allocate root node for MLPPP ID map

Description 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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_MLPPP_LINK_CREATE_FAILED

System Log Message Unable to create MLPPP bundle links (L2TP tunnel *tunnel-id*, session *session-id*)

Description The Layer 2 Tunneling Protocol process (l2tpd) could not create multilink Point-to-Point Protocol (MLPPP) bundle links for the indicated tunnel and session.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_MLPPP_LINK_MAX_EXCEEDED

System Log Message Unable to add link: maximum number of sessions exceeded for MLPPP bundle *bundle* (L2TP tunnel *tunnel-id*, session *session-id*)

Description 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.

Type Error: An error occurred
Severity error

Facility LOG_NEWS

L2TPD_MLPPP_POOL_ADDRESS_FAILED

System Log Message Unable to assign pool address for MLPPP bundle *bundle* (L2TP tunnel *tunnel-id*, session *session-id*)

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_MLPPP_SESSION_CREATE_FAIL

System Log Message Unable to create MLPPP session (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) session for the indicated tunnel and session.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_MLPPP_SESSION_DELETE_FAIL

System Log Message Unable to delete session for MLPPP bundle *bundle* (L2TP tunnel *tunnel-id*, session *session-id*, errno *error-code*)

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_MLPPP_SPEED_MISMATCH

System Log Message Unable to add link: speed differs for bundle *bundle* (L2TP tunnel *tunnel-id*, session *session-id*)

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_NH_DELETE_FAILED

System Log Message Unable to delete next hop *next-hop*

Description The Layer 2 Tunneling Protocol process (l2tpd) could not delete the indicated next hop.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_POLICER_ADD_FAILED

System Log Message Unable to add policer *filter-name* (L2TP tunnel *tunnel-id*, session *session-id*): *error-message*

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

Action Remove the policer from the RADIUS database or contact your technical support representative.

L2TPD_POLICER_PROFILE_DEL_FAILED

System Log Message Unable to delete policer profile (L2TP tunnel *tunnel-id*, session *session-id*): *error-message*

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

Action Remove the policer profile from the RADIUS database or contact your technical support representative.

L2TPD_POOL_ADDRESS_FAILED

System Log Message Unable to assign pool address (L2TP tunnel *tunnel-id*, session *session-id*)

Description The Layer 2 Tunneling Protocol process (l2tpd) could not assign a pool address in the indicated tunnel and session.

Type Error: An error occurred

Severity error
Facility LOG_NEWS

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

Severity error

Facility LOG_NEWS

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

Severity error

Facility LOG_NEWS

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

Severity error

Facility LOG_NEWS

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

Severity error

Facility LOG_NEWS

L2TPD_PROFILE_NO_RADIUS_SERVERS

System Log Message Can't find radius servers for profile '*profile-name*

Description The Layer 2 Tunneling Protocol process (l2tpd) could not locate any radius servers for the configured access profile.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_RADIUS_ACCT_PORT_ZERO

System Log Message RADIUS server accounting port is zero

Description The Layer 2 Tunneling Protocol process (l2tpd) determined that the RADIUS server accounting port is zero, which is not a valid value.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_RADIUS_GETHOSTNAME_FAILED

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

Description The Layer 2 Tunneling Protocol process (l2tpd) could not obtain a hostname for an outgoing RADIUS message.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_RADIUS_RT_INST_ENOENT

System Log Message Ignoring RADIUS server *radius-server*: routing instance *routing-instance* did not exist

Description 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.

Type Error: An error occurred

Severity notice

Facility LOG_NEWS

L2TPD_RADIUS_RT_INST_NOT_FOUND

System Log Message Ignoring RADIUS server *radius-server*: unable to retrieve routing instance *routing-instance* (*error-message*)

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_RADIUS_SERVER_NOT_FOUND

System Log Message Unable to find RADIUS server (tunnel *tunnel-id*, session *session-id*)

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_RADIUS_SRC_ADDR_BIND_FAIL

System Log Message Ignoring RADIUS server *radius-server*: unable to bind to source address *source-address* (*error-message*)

Description The Layer 2 Tunneling Protocol process (l2tpd) did not use the indicated RADIUS server because it could not bind to the indicated source address.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_RADIUS_SRC_ADDR_ENOENT

System Log Message Ignoring RADIUS server *radius-server*: source address *source-address* did not exist

Description 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.

Type Error: An error occurred

Severity notice

Facility LOG_NEWS

L2TPD_RPD_ASYNC_UNREG_FAILED

System Log Message Unable to unregister with rpd (*return-value*)

Description The Layer 2 Tunneling Protocol process (l2tpd) could not unregister asynchronously with the routing protocol process (rpd).

Type Error: An error occurred

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

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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_SERVER_START_FAILED

System Log Message Startup of L2TP server failed
Description The Layer 2 Tunneling Protocol (L2TP) server did not start.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_SESSION_CFG_ADD_FAILED

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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_SESSION_CFG_DELETE_FAILED

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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_SESSION_DELETE_FAILED

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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_SESSION_IFF_NOT_FOUND

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.

Type Error: An error occurred
Severity error

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_ALLOC_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*

Description The Layer 2 Tunneling Protocol process (l2tpd) could not delete information about a session from the configuration information for a logical interface.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_SESSION_IFL_GET_FAILED

System Log Message *function-name*: unable to find interface *interface-name*

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_SESSION_IFL_NOT_EQUAL

System Log Message *function-name*: interface *interface-name* not equal

Description The Layer 2 Tunneling Protocol process (l2tpd) could not add a session for the indicated logical interface.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_SESSION_IFL_NOT_FOUND

System Log Message Unable to find interface *interface-name* (L2TP tunnel *tunnel-id*, session *session-id*)

Description The Layer 2 Tunneling Protocol process (l2tpd) could not find the indicated logical interface corresponding to the indicated tunnel and session.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_SESSION_IFL_OCCUPIED

System Log Message *function-name*: interface *interface-name* already has associated session (*value1/value2*)

Description The Layer 2 Tunneling Protocol process (l2tpd) determined that the indicated logical interface already had an associated session.

Type Error: An error occurred

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_IP_DUPLICATE

System Log Message IP address *peer-address/prefix-length* (*vrf*) already used in other session (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 already used by another session, 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

Facility LOG_NEWS

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 <i>tunnel-id</i> , session <i>session-id</i>)
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: <i>error-message</i>
Description	The Layer 2 Tunneling Protocol process (l2tpd) could not open its trace file.
Type	Error: An error occurred
Severity	error
Facility	LOG_NEWS

L2TPD_TUNNEL_CFG_ADD_FAILED

System Log Message	Unable to add L2TP tunnel <i>tunnel-id</i> to PIC configuration (errno <i>error-code</i>)
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 tunnel to the in-memory configuration for the PIC.
Type	Error: An error occurred
Severity	error
Facility	LOG_NEWS

L2TPD_TUNNEL_CFG_ADD_INV_ADDR

System Log Message	Unable to add L2TP tunnel <i>tunnel-id</i> to PIC configuration: address invalid
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 tunnel to the in-memory configuration for the PIC, because the local or remote address provided for the tunnel was invalid.
Type	Error: An error occurred
Severity	error
Facility	LOG_NEWS

L2TPD_TUNNEL_CFG_DELETE_FAILED

System Log Message	Unable to remove L2TP tunnel <i>tunnel-id</i> from PIC configuration
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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 tunnel from the in-memory configuration for the PIC.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_TUNNEL_DELETE_FAILED

System Log Message Unable to delete L2TP tunnel *tunnel-id* (errno *error-code*)

Description The Layer 2 Tunneling Protocol process (l2tpd) could not delete information about the indicated tunnel.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_TUNNEL_DEST_IF_LOOKUP_FAIL

System Log Message Unable to find destination interface for L2TP tunnel *tunnel-id* remote address: *error-message*

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_TUNNEL_GROUP_ADD_FAILED

System Log Message Unable to create L2TP tunnel group

Description The Layer 2 Tunneling Protocol process (l2tpd) could not create a tunnel group.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_TUNNEL_GROUP_CFG_ADD_FAIL

System Log Message Unable to add tunnel group *tunnel-group* (service set *service-set*) to configuration for PIC *pic-slot*: *error-message*

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 tunnel group and service set to the in-memory configuration for the indicated PIC.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

L2TPD_TUNNEL_GROUP_CFG_DEL_FAIL

System Log Message Unable to delete tunnel group *tunnel-group* (service set *service-set*): *error-code*

Description The Layer 2 Tunneling Protocol process (l2tpd) could not delete information about the indicated tunnel group and service set.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

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
Description 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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_USER_AUTHN_ORDER_UNKNOWN

System Log Message Unknown authentication order *authentication-order* (tunnel *tunnel-id*, session *session-id*)
Description 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.

Type Error: An error occurred
Severity error
Facility LOG_NEWS

L2TPD_USER_AUTHN_PWD_NOT_FOUND

System Log Message Unable to retrieve password during PPP authentication of user *username*
Description 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.

Type Error: An error occurred
Severity error

Facility LOG_NEWS

CHAPTER 60

LACP System Log Messages

This chapter describes messages with the **LACP** prefix. The Link Aggregation Control Protocol (LACP) provides a method to control the bundling of several physical ports together to form a single logical channel. LACP allows a network device to negotiate an automatic bundling of links by sending LACP packets to the peer (directly connected device that also implements LACP).

LACP_INTF_DOWN

System Log Message	<i>interface-name</i> : Interface marked down due to lacp timeout on member <i>child-interface-name</i>
Description	The Link Aggregation Control Protocol process (lacpd) experienced timeout hence interface marked down.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

CHAPTER 61

LACPD System Log Messages

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

System Log Message	Unable to allocate memory for interface <i>interface-name</i>
Description	The Link Aggregation Control Protocol process (lacpd) could not allocate memory for the indicated interface.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

LACPD_MEMORY_ALLOCATION_FAILED

System Log Message	Unable to allocate memory for interface <i>interface-name</i>
Description	The Link Aggregation Control Protocol process (lacpd) could not allocate memory for the indicated interface.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

LACPD_TIMEOUT

System Log Message	<i>error-message</i> : lacp current while timer expired current Receive State: CURRENT
Description	The Link Aggregation Control Protocol process (lacpd) experienced timeout hence Receive State will change from Current to Expired/Defaulted.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

CHAPTER 62

LFMD System Log Messages

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_3AH_LINKDOWN

System Log Message	<i>(interface-name)</i> : 802.3ah link-fault status changed to fault
Description	802.3ah link-fault status for given interface has changed to fault
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_AUTH

LFMD_3AH_LINKUP

System Log Message	<i>(interface-name)</i> : 802.3ah link-fault status changed to good
Description	802.3ah link-fault status for given interface has changed to good
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_AUTH

LFMD_3AH_LOCAL_LB_CHANGED

System Log Message	<i>(interface-name)</i> : <i>action</i> remote-loopback on local port on peer's request
Description	802.3ah local loopback status changed on given interface on peer request
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_AUTH

LFMD_3AH_REQ_REMOTE_LB_CHANGE

System Log Message	<i>(interface-name)</i> : requesting remote-loopback <i>action</i> to peer
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Description 802.3ah requested peer loopback status change on given interface

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

Severity info

Facility LOG_AUTH

LFMD_RTsock_OPEN_FAILED

System Log Message Unable to open synchronous routing socket: *error-message*

Description The Ethernet Operation, Administration and Management link-fault management process (lfmd) could not open a routing socket to create a connection.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

CHAPTER 63

LIBJNX System Log Messages

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	<i>function-name: error-message</i>
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 ' <i>filename</i> ' using <i>program-name: error-message</i>
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 (<i>error-message</i>)
Description	A Junos process could not retrieve the system default IP address from the kernel, because the address is not defined there.
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18948 .

LIBJNX_EVLIB_FAILURE

System Log Message	<i>function-name: error-message</i>
Description	A Junos process called the indicated function in the event library. The function 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18949 .

LIBJNX_EXEC_EXITED

System Log Message	Command stopped: PID <i>pid</i> , signal= <i>'return-value'</i> <i>core-dump-status</i> , command ' <i>command</i> '
Description	A Junos process created a child process to execute the indicated command for it. The child process stopped unexpectedly.
Type	Error: An error occurred
Severity	notice
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_EXEC_FAILED

System Log Message	Child exec failed for command ' <i>command</i> ': <i>error-message</i>
Description	A Junos process called the <code>exec()</code> system call while creating a child process to execute the indicated command for it. 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.

LIBJNX_EXEC_PIPE

System Log Message	Unable to create pipes for command ' <i>command</i> ': <i>error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_EXEC_SINGALED

System Log Message	Command received signal: PID <i>pid</i> , signal <i>signal-name</i> core-dump-status, command ' <i>command</i> '
Description	A Junos process created a child process to execute the indicated command for it. The child process received the indicated signal and exited.
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=KB18950 .

LIBJNX_EXEC_WEXIT

System Log Message	Command exited: PID <i>pid</i> , status <i>return-value</i> <i>core-dump-status</i> , command ' <i>command</i> '
Description	A Junos process created a child process to execute the indicated command for it. The child process exited abnormally with the indicated exit code.
Type	Error: An error occurred
Severity	notice
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative. For more information, see KB18950.

LIBJNX_FILE_COPY_FAILED

System Log Message	Failed to copy from <i>source-filename</i> to <i>destination-filename</i>
Description	A Junos process could not copy the indicated source file to the indicated destination name or location.
Type	Error: An error occurred
Severity	error
Facility	ANY

LIBJNX_FILE_SYSTEM_FAIL

System Log Message	<i>pathname</i> : <i>error-message</i>
Description	A Junos process could not obtain status information for the indicated file system.
Type	Event: This message reports an event, not an error
Severity	error
Facility	ANY

LIBJNX_FILE_SYSTEM_SPACE

System Log Message	Not enough space left on device <i>pathname</i>
Description	A Junos process found that the indicated file system did not have the free space needed for storing temporary files.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	ANY

LIBJNX_INVALID_CHASSIS_ID

System Log Message	<i>function-name: invalid chassis ID chassis-id</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	ANY

LIBJNX_INVALID_RE_SLOT_ID

System Log Message	<i>function-name: invalid Routing Engine slot ID routing-engine-slot</i>
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 ' <i>username</i> ' was not locked.
Description	The user account had not been locked.

Type	Error: An error occurred
Severity	notice
Facility	ANY

LIBJNX_LOGIN_ACCOUNT_UNLOCKED

System Log Message	Account for user ' <i>username</i> ' has been unlocked for logins
Description	Logins from an unlocked account are permitted again.

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

LIBJNX_LOGIN_ACCT_NOT_UNLOCKED

System Log Message	Failed to unlock account for user ' <i>username</i> '.
Description	An attempt to unlock the user account failed.

Type	Error: An error occurred
Severity	error
Facility	ANY

LIBJNX_PRIV_LOWER_FAILED

System Log Message	Unable to lower privilege level: <i>error-message</i>
Description	A Junos process attempted to revert its effective user ID to the original user. The attempt failed.

Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_PRIV_RAISE_FAILED

System Log Message	Unable to raise privilege level: <i>error-message</i>
Description	A Junos process attempted to set its effective user ID to the root user. The attempt failed.
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_REPLICATE_RCP_ERROR

System Log Message	<i>operation: operational-status</i>
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: <i>error-message</i>
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	<i>function-name: operation: operation filename: error-message</i>
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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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18952 .

LIBJNX_SNMP_ENGINE_SCAN_FAILURE

System Log Message	<i>function-name: fscanf : filename scanning: data Error: error-message</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB18953 .

LIBJNX_SOCKET_BUFF_ERROR

System Log Message	Socket buffer error - ' <i>error-message</i> ':
Description	JUNOS system can not allocate the requested amount of the socket buffer.
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_SOCKET_FAILURE

System Log Message	<i>operation: error-message</i>
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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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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.

CHAPTER 64

LIBSNMP System Log Messages

This chapter describes messages with the **LIBSNMP** prefix. They are generated by the `libjsnmp` process.

LIBSNMP_CTX_FAILURE

System Log Message	<code>snmp_ms_trap_api</code> return <i>argument</i>
Description	Sub-agents SNMP context either too long or of zero size
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBSNMP_IPC_ERROR

System Log Message	<i>argument: sock:port</i> (type: <i>port-type</i>)
Description	Error in SNMP related IPC messages size mismatch, corruption or memory failure
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBSNMP_IPC_READ_ERROR

System Log Message	Unable to read <i>inbound-bytes</i> bytes: <i>sock: port</i> (type: <i>port-type</i>)
Description	Error in reading IPC messages during SNMP related messaging

Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJSNMP_MTHD_API_UNKNOWN_TYPE

System Log Message	unknown oev type: <i>tag-type</i>
Description	Internal error - Unknown SNMP object indexing type
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJSNMP_NS_LOG_CRIT

System Log Message	CRIT: <i>argument</i>
Description	Logs for SNMP critical message
Type	Error: An error occurred
Severity	critical
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJSNMP_NS_LOG_EMERG

System Log Message	EMERG: <i>argument</i>
Description	SNMP errors with LOG_EMERG as severity
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 [KB18955](#).

LIBSNMP_NS_LOG_ERR

System Log Message	ERR: <i>argument</i>
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.

LIBSNMP_OID_GEN_FAILED

System Log Message	Unable to generate OID: <i>object-name (system-error-message)</i>
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.

LIBSNMP_READ_LEN_ERR

System Log Message	error <i>error-code</i> 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.

LIBSNMP_RTMSIZE_MISMATCH_ERR

System Log Message	routing socket msg size <i>argument</i> of <i>argument1</i> (call buf = <i>argument2</i>)
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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.

LIBJSNMP_SMS_HDR_ERR

System Log Message	problem with hdr size (<i>record-size</i>) or msg size (<i>size</i>)
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.

LIBJSNMP_SMS_MSG_ERR

System Log Message	received <i>received-value</i> bytes, expected <i>expected-value</i> 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.

LIBJSNMP_SOCKET_OPEN_ERR

System Log Message	routing socket open error <i>argument</i>
Description	Failure in opening routing socket
Type	Error: An error occurred
Severity	error
Facility	ANY

Cause An internal software failure occurred.

Action Contact your technical support representative.

LIBSNMP_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.

LIBSNMP_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.

LIBSNMP_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.

CHAPTER 65

LIBMSRPC System Log Messages

This chapter describes messages with the **LIBMSRPC** prefix. They are generated by the mspinfo process, which is responsible for RPC communication between the Routing Engine (RE) and the Multiservices PICs.

LIBMSRPC_CLIENT_INIT_FAILED

System Log Message	Can't create msrpc client: <i>error-message</i>
Description	A Junos process (mspinfo) could not establish initialization of the RPC client.
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	Possible reasons: process is out of memory
Action	Contact your technical support representative. For more information, see KB18956 .

LIBMSRPC_CLIENT_KCOM_FAILED

System Log Message	Can't initialize kcom for msrpc client: <i>error-message</i>
Description	A Junos process (mspinfo) could not establish initialization of the kcom subsystem.
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	Possible reasons: can't initialize kcom services.
Action	Contact your technical support representative. For more information, see KB18957 .

LIBMSRPC_CLIENT_KCOM_NO_IF

System Log Message	No active extension-provider interfaces
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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 .

LIBMSRPC_CLIENT_NO_CONNECTION

System Log Message	Failed connecting <i>fpc=fpc-slot, pic=pic-slot</i>
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)msrpc server is not running on the PIC.
Action	Contact your technical support representative. For more information, see KB18959 .

LIBMSRPC_CLIENT_NO_REPLY

System Log Message	Error executing " <i>command</i> ": 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)msrpc server is not running on the PIC.
Action	Contact your technical support representative. For more information, see KB18960 .

LIBMSRPC_CLIENT_PIC_DOWN

System Log Message	Interface <i>interface-name</i> is down
Description	Remote execution of the command given from the RE to the PIC failed, the PIC is down.

Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	Possible reasons: the given PIC is not responding and/or is offline.
Action	Contact your technical support representative. For more information, see KB18961 .

LIBMSRPC_CLIENT_WRONG_OUTPUT

System Log Message	Error executing " <i>command</i> ": output length exceeds <i>correct-length</i> characters
Description	Remote execution of the command given from the RE to the PIC failed, PIC returned unexpected output.
Type	Error: An error occurred
Severity	notice
Facility	ANY
Cause	Possible reasons: a)wrong command b)wrong arguments.
Action	Contact your technical support representative. For more information, see KB18962 .

CHAPTER 66

LICENSE System Log Messages

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

System Log Message	Connection could not be set up: <i>error-message</i>
Description	The indicated error occurred because a connection to the license-check process was not established.
Type	Error: An error occurred
Severity	error
Facility	ANY

LICENSE_CONN_TO_LI_CHECK_FAILURE

System Log Message	Process could not connect to license-check in <i>maximum-value</i> tries; giving up
Description	The indicated process failed to connect to the license-check process after the indicated maximum tries.
Type	Error: An error occurred
Severity	error
Facility	ANY

LICENSE_CONN_TO_LI_CHECK_SUCCESS

System Log Message	Connected to license-check
Description	The indicated process successfully connected to the license-check process.
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

LICENSE_EXPIRED

System Log Message	License for feature <i>feature-name(feature-id)</i> 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 " <i>filename</i> " 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 <i>feature-name(feature-id)</i> will expire in <i>time</i>
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 <i>feature-name(feature-id)</i> will expire in <i>time</i> (limit = <i>maximum-value</i>)
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

Action For more information, see [KB18968](#).

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 [KB18969](#).

LICENSE_INCORRECT_USAGE_API

System Log Message Incorrect usage of API. Use the API `lc_write_scale_usage`.

Description The indicated process has called an incorrect usage of a liblicense API

Type Error: An error occurred

Severity warning

Facility ANY

LICENSE_INVALIDE_FEATURE_ID

System Log Message It is an invalid feature id: *feature-id*

Description The indicated process has encountered an invalid feature id.

Type Error: An error occurred

Severity error

Facility ANY

LICENSE_JVERSION_READ_ERROR

System Log Message Failed to get JUNOS version : error: *system-error-message*

Description The indicated process encountered a system error while trying to obtain release version of JUNOS.

Type Error: An error occurred

Severity error

Facility ANY

LICENSE_LIST_MANAGEMENT

System Log Message	Error occurred for feature <i>feature-name: error-message</i> (system error: <i>system-error-message</i>)
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 <i>feature-name(feature-id)</i> expires in <i>time</i>
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: <i>error-message</i>
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: <i>current-value</i>
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 <i>error-argument</i>
Description	The indicated process failed to release the shared memory.
Type	Error: An error occurred
Severity	error
Facility	ANY

LICENSE_SHM_DIR_OPEN_FAILURE

System Log Message	Unable to create directory <i>filename: error-message</i>
Description	The indicated process encountered a system error while attempting to create the directory.
Type	Error: An error occurred
Severity	error
Facility	ANY

LICENSE_SHM_FILE_OPEN_FAILURE

System Log Message	Failed to open the shared memory file <i>filename</i> , <i>errno=error-message</i>
Description	The indicated process encountered a system error while attempting to open the shared memory file.
Type	Error: An error occurred
Severity	error

Facility ANY

LICENSE_SHM_KEY_CREATE_FAILURE

System Log Message Failed to create key for shared memory from the file *filename*

Description The indicated process encountered a system error while creating an IPC identifier from a pathname.

Type Error: An error occurred

Severity error

Facility ANY

LICENSE_SHM_SCALE_READ_FAILURE

System Log Message Failed to read license scale usage

Description The indicated process failed to read scale usage data.

Type Error: An error occurred

Severity error

Facility ANY

LICENSE_SHM_USAGE_WRITE_FAILURE

System Log Message Failed to update license feature usage shared memory

Description The indicated process has failed to update feature usage shared memory.

Type Error: An error occurred

Severity error

Facility ANY

LICENSE_SHM_SCALE_UPDATE_FAILURE

System Log Message Failed to update license scale usage

Description The indicated process failed to update scale usage data.

Type Error: An error occurred

Severity error

Facility ANY

LICENSE_SIGNATURE_VERIFY_FAILED

System Log Message Signature verification failed: *error-message*

Description The management process (mgd) could not verify a license because the license's signature was invalid.

Type Error: An error occurred
Severity error
Facility ANY

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.

Type Error: An error occurred
Severity error
Facility ANY

LICENSE_VERIFICATION_FILE_ERROR

System Log Message License verification failed for file '*error-message*': *filename* (system error: *system-error-message*)

Description The management process (mgd) could not verify the indicated license file because of the indicated internal file-handling error.

Type Error: An error occurred
Severity error
Facility ANY

CHAPTER 67

LLDP System Log Messages

This chapter describes messages with the **LLDP** 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.

LLDP_NEIGHBOR_DOWN

System Log Message	A neighbor of interface <i>interface-name</i> has gone down. Now, this interface has <i>neighbor-count</i> neighbor/s.
Description	LLDP has detected that a neighbor has gone down for an interface.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON
Cause	TTL is expired for RDB neighbor. So deleting neighbor from rdb.

LLDP_NEIGHBOR_UP

System Log Message	A neighbor has come up for interface <i>interface-name</i> . Now, this interface has <i>neighbor-count</i> neighbor/s.
Description	LLDP has detected that a neighbor has come up for an interface.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON
Cause	New neighbor has come up. Adding neighbor to rdb.

CHAPTER 68

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.

LOGIN_ABORTED

System Log Message	Client aborted login
Description	A login attempt was cancelled, either by the remote user or in response to a signal.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_AUTH

LOGIN_ATTEMPTS_THRESHOLD

System Log Message	Threshold for unsuccessful authentication attempts (<i>limit</i>) reached by user ' <i>username</i> '
Description	The user made too many failed login attempts.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_AUTH

LOGIN_FAILED

System Log Message	Login failed for user <i>username</i> from host <i>source-address</i>
Description	A login attempt failed for the indicated username.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_AUTH

LOGIN_FAILED_LIMIT

System Log Message	Specified number of login failures (<i>limit</i>) for user ' <i>username</i> ' reached from ' <i>source-address</i> '
Description	Several login attempts failed for the indicated username.

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

LOGIN_FAILED_SET_CONTEXT

System Log Message	Failed to set context for user <i>username</i>
Description	The login process (login) could not set login context properties for the indicated user and cancelled the authentication attempt.
Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH

LOGIN_FAILED_SET_LOGIN

System Log Message	Failed to set login ID for user <i>username</i> : <i>error-message</i>
Description	The login process (login) could not assume the user ID of the indicated user and cancelled the authentication attempt.
Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH

LOGIN_HOSTNAME_UNRESOLVED

System Log Message	Unable to resolve hostname <i>hostname</i> : <i>error-message</i>
Description	The login process (login) could not resolve the indicated remote hostname for the indicated reason.
Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH
Cause	An internal software failure occurred.

LOGIN_INFORMATION

System Log Message	User <i>username</i> logged in from host <i>hostname</i> on device <i>tty-name</i>
Description	The indicated username was authenticated and logged into the shell specified for it in the password file.
Type	Event: This message reports an event, not an error
Severity	info

Facility LOG_AUTH

LOGIN_MALFORMED_USER

System Log Message Invalid username: *username*

Description The indicated username was invalid.

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

Severity info

Facility LOG_AUTH

LOGIN_PAM_AUTHENTICATION_ERROR

System Log Message Failed password for user *username*

Description The login process (login) could not authenticate the indicated user via PAM.

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

Severity error

Facility LOG_AUTH

LOGIN_PAM_ERROR

System Log Message Failure while authenticating user *username*: *error-message*

Description The PAM authentication process failed for the indicated username, for the indicated reason.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

LOGIN_PAM_MAX_RETRIES

System Log Message Too many retries while authenticating user *username*

Description The number of failed PAM authentication attempts for the indicated user exceeded the maximum limit.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

LOGIN_PAM_STOP

System Log Message Failed to end PAM session: *error-message*

Description The login process (login) could not end the PAM authentication session, for the indicated reason.

Type Error: An error occurred
Severity error
Facility LOG_AUTH

LOGIN_PAM_USER_UNKNOWN

System Log Message Attempt to authenticate unknown user *username*
Description The login process (login) failed to authenticate the indicated user via PAM because the username was unknown.

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

LOGIN_PASSWORD_EXPIRED

System Log Message Forcing change of expired password for user *username*
Description The password provided for the indicated username was expired and the user was prompted to set a new one.

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

LOGIN_REFUSED

System Log Message Login of user *username* from host *hostname* on device *tty-name* was refused: *reason*
Description A login attempt for the indicated username was rejected for the indicated reason.

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

LOGIN_ROOT

System Log Message User *username* logged in as root from host *hostname* on device *tty-name*
Description The indicated username was authenticated as a superuser and logged into the shell specified for the root user in the password file.

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

LOGIN_TIMED_OUT

System Log Message	Login attempt timed out after <i>duration</i> seconds
Description	A login attempt failed to complete in the maximum time allowed.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_AUTH

CHAPTER 69

LPDFD System Log Messages

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

System Log Message	Failed to open profile database: <i>error-message</i>
Description	The local policy decision function process (lpdfd) failed to open the profile database.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB18972 .

LPDFD_DYN_REGISTER_FAILED

System Log Message	Dynamic config register failed: <i>error-message</i>
Description	The local policy decision function process (lpdfd) failed to register with the dynamic configuration subsystem.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB18973 .

LPDFD_PCONN_SERVER

System Log Message	<i>argument</i> : Cannot retrieve peer info for session. Error: <i>error-message</i>
Description	The local policy decision function process (lpdfd) pconn server failed to initialize
Type	Error: An error occurred

Severity error
Facility LOG_DAEMON

CHAPTER 70

LRMUX System Log Messages

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

System Log Message	Failed to exec <i>command</i>
Description	The Logical System Multiplexer process (lrmuxd) issued the exec() system call to start a routing process (rpd) to check the validity of the configuration. The system call failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

LRMUX_LRPD_PID_LOCK

System Log Message	Lock not found on PID file <i>filename</i>
Description	The Logical System Multiplexer process (lrmuxd) could not find a lock for a logical system.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	A logical system process (rpd) died.

LRMUX_LRPD_PID_OPEN

System Log Message	Unable to open PID file <i>filename</i>
Description	The Logical System Multiplexer process (lrmuxd) could not open the indicated PID lock file for a logical system process (rpd).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

LRMUX_LRPD_SEND_HUP

System Log Message	Unable to send signal to PID <i>pid</i>
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 ' <i>filename</i> '
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

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

System Log Message	lsysd could not successfully read/parse configuration db
Description	The logical system process (lsysd) tried to read configurations when daemon restarts, it fails here for whatever reason
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

LSYSD_INIT_FAILED

System Log Message	lsysd failed to register or open rtsock
Description	The logical system process (lsysd) did not initialize, because it could not make rtsock connection.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

LSYSD_LICENSE_INIT_FAILED

System Log Message	lsysd license control feature failed
Description	The logical system process (lsysd) license feature failed because it could not register to license library.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

LSYSD_SEC_NODE_COMP_SYNC_FAILED

System Log Message	Could not sync their state on backup RE
Description	One or more subcomponents of the logical system daemon (lsysd) failed to synchronize their state when the lsysd restarted on secondary mode.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHAPTER 72

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

System Log Message	Connection to management peer <i>process-name</i> timed out waiting for input
Description	The connection between the snooping process (mcsnoopd) and the indicated management process (mgd) timed out before input arrived from the mgd process.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON

CHAPTER 73

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

System Log Message	<i>function-name: error-message</i>
Description	The MIB II process (mib2d) could not process ATM-related information.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

MIB2D_CONFIG_CHECK_FAILED

System Log Message	<i>function-name: configuration database has errors</i>
Description	The portion of the candidate configuration related to the MIB II process (mib2d) was checked for validity during a 'commit' operation. The check failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	The configuration was invalid.
Action	Correct the invalid portion of the configuration as described in the error message on the console.

MIB2D_FILE_OPEN_FAILURE

System Log Message	Unable to open file ' <i>filename</i> ': <i>error-message</i>
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Description 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	<i>function-name</i> : interface flapping missing: ifname(<i>interface-name</i>) old if_anydown_flaps(<i>old-value</i>) if_anydown_flaps(<i>new-value</i>)
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	<i>function-name</i> : <i>reason</i> : <i>error-message</i>
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: <i>overload-name</i> , interface: <i>interface-name</i>
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: <i>overload-name</i> , interface: <i>interface-name</i>
---------------------------	--

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	<i>function-name: duplicate snmpid(snmp-interface-index) old ifname(interface-name.interface-unit) new ifname(new-interface-name.kernel-interface-unit)</i>
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	<i>function-name reason filename</i>
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	<i>function-name: reason filename</i>
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	<i>function-name: sysctl type failed: error-message</i>
---------------------------	---

Description 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 74

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	<i>fec-address</i> : 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	<i>fec-address</i> : source address <i>ip-address</i> 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	<i>fec-address</i> : 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

System Log Message *fec-address: unable to send probe (error-message)*

Description The Multiprotocol Label Switching (MPLS) Operation, Administration, and Maintenance (OAM) process (mplsoamd) could not send a traceroute probe packet.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

MPLS_OAM_SOCKET_OPEN_FAILED

System Log Message *fec-address: unable to open socket (error-message)*

Description The Multiprotocol Label Switching (MPLS) Operation, Administration, and Maintenance (OAM) process (mplsoamd) could not open a socket to initiate a traceroute operation.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

MPLS_OAM_SOCKET_SELECT_FAILED

System Log Message *fec-address: unable to select socket (error-message)*

Description The Multiprotocol Label Switching (MPLS) Operation, Administration, and Maintenance (OAM) process (mplsoamd) could not select a socket to initiate a traceroute operation.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Contact your technical support representative.

MPLS_OAM_TRACEROUTE_INTERRUPTED

System Log Message *fec-address: topology update interrupted traceroute*

Description A traceroute operation was interrupted by a topology change.

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	<i>fec-address</i> : 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	<i>fec-address</i> : 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.

CHAPTER 75

MSVCS System Log Messages

This chapter describes messages with the **MSVCS** prefix.

MSVCS_LOG_SESSION_CLOSE

System Log Message	<i>source-address:source-port source-nat-information -> destination-address:destination-port destination-nat-information (protocol-name)</i>
Description	The session with the indicated characteristics was removed. If the session required Network Address Translation (NAT), the message has NAT data.
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

MSVCS_LOG_SESSION_OPEN

System Log Message	<i>source-address:source-port source-nat-information -> destination-address:destination-port destination-nat-information (protocol-name)</i>
Description	The packet with indicated characteristics was accepted by the configured plugins after a policy check. A session was created as a result and opened for traffic. If the policy required Network Address Translation (NAT), NAT information appears in the message.
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

CHAPTER 76

NEXTHOP System Log Messages

This chapter describes messages with the **NEXTHOP** prefix. They are generated by the process that decides the next hop.

NEXTHOP_COMPONENTS_LIMIT_REACHED

System Log Message	Limit on components reached for flood next hop for routing instance ' <i>routing-instance</i> '
Description	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.
Type	Event: This message reports an event, not an error
Severity	error
Facility	ANY

CHAPTER 77

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 <i>count</i> 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.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB18984 .

CHAPTER 78

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

System Log Message	Unable to allocate <i>count</i> bytes of memory
Description	The USP trace process (nstraced) could not allocate the indicated number of bytes of memory.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	System memory was exhausted.
Action	Increase the amount of RAM in the Routing Engine. For more information, see KB18985 .

NSTRACED_RESTART_CFG_READ_FAILED

System Log Message	Subcomponent could not read configuration database
Description	When the USP trace process (nstraced) restarted, it could not read its configuration information from the configuration database.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

CHAPTER 79

NTPDATE System Log Messages

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

System Log Message	step time offset <i>new-value</i> sec
Description	The ntp service changed the time of day
Type	Error: An error occurred
Severity	info
Facility	ANY

CHAPTER 80

NTPD System Log Messages

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

System Log Message	time reset <i>rate</i> s
Description	The ntp service changed the time of day
Type	Error: An error occurred
Severity	info
Facility	ANY

CHAPTER 81

PARSE System Log Messages

This chapter describes messages with the **PARSE** prefix. They are generated by the Virtual Router Redundancy Protocol (VRRP) process (vrrpd), which provides the user interface for management of VRRP groups.

PARSE_WARN_DUPLICATE_ROUTER_AD

System Log Message	Duplicate 'router-advertisement' configured for interface <i>interface-name</i>
Description	Duplicate router-advertisement is configured for given interface.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON

PARSE_WARN_NO_LS_ROUTER_AD_CFG

System Log Message	'router-advertisement' is not configured for interface <i>interface-name</i> , logical system: <i>logical-router-name</i> . It is configured on logical system: <i>logical-system-name</i>
Description	Router-advertisement is not configured for an interface (part of a logical system) having IPv6 vrrp config. Instead its configured on another logical system.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON

PARSE_WARN_NO_ROUTER_AD_CFG

System Log Message	'router-advertisement' is not configured for interface <i>interface-name</i>
Description	Router-advertisement is not configured for an interface having IPv6 vrrp config.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON

PARSE_WARN_PROXY_ARP_CFG_ERR

System Log Message	Cannot have more than one VRRP group on a subnet when proxy arp is configured
Description	When proxy arp is configured, you cannot have more than one VRRP group configured on same subnet.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON

CHAPTER 82

PFE System Log Messages

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

System Log Message	Error in Analyzer <i>error-message</i> for index = <i>index</i> error-code = <i>error-code</i>
Description	Error while performing a task. Hence configuration aborted.
Type	Error: An error occurred
Severity	error
Facility	ANY

PFE_ANALYZER_SHIM_CFG_FAILED

System Log Message	Error in Analyzer <i>error-message</i> for index = <i>index</i> error-code = <i>error-code</i>
Description	Error while programming the chip.
Type	Error: An error occurred
Severity	error
Facility	ANY

PFE_ANALYZER_TABLE_WRITE_FAILED

System Log Message	<i>index</i> Could not create analyzer <i>error-message</i> table
Description	The Analyzer configuration failed for the ifl index. This could be due to some error condition, as explained in the error strings.
Type	Error: An error occurred
Severity	error
Facility	ANY

PFE_ANALYZER_TASK_FAILED

System Log Message	Following task failed : <i>error-message</i>
---------------------------	--

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.

Type	Error: An error occurred
Severity	error
Facility	LOG_PFE

PFE_FW_SYSLOG_ETH

System Log Message	<i>FW: interface-name action destination-address source-address protocol-name (count packets)</i>
Description	An Ethernet frame matched against a stateless firewall filter with the indicated 'syslog' action (A = Accept, D = Discard, R = Reject).
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

PFE_FW_SYSLOG_IP

System Log Message	<i>FW: interface-name action protocol-name source-address destination-address source-port-or-type destination-port-or-code (count packets)</i>
Description	An IP packet matched against a stateless firewall filter with the indicated 'syslog' action (A = Accept, D = Discard, R = Reject).
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

PFE_FW_SYSLOG_IP6_GEN

System Log Message	<i>FW: interface-name action protocol-name source-address destination-address (count packets)</i>
Description	An IP version 6 (IPv6) packet matched against a stateless firewall filter with the indicated 'syslog' action (A = Accept, D = Discard, R = Reject).
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

PFE_FW_SYSLOG_IP6_ICMP

System Log Message	<i>FW: interface-name action protocol-name source-address destination-address type type code error-code (count packets)</i>
Description	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).

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

PFE_FW_SYSLOG_IP6_TCP_UDP

System Log Message	FW: <i>interface-name action protocol-name source-address destination-address sport:source-port dport:destination-port (count packets)</i>
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).
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

PFE_MGCP_MEM_INIT_FAILED

System Log Message	Failed to create memory pool for <i>error-message</i>
Description	Failed to initialize the MGCP memory pool.
Type	Error: An error occurred
Severity	error
Facility	LOG_PFE

PFE_MGCP_REG_HDL_FAIL

System Log Message	Failed to register <i>object-name</i> handle
Description	Failed to register the handler with the external module.
Type	Error: An error occurred
Severity	error
Facility	LOG_PFE

PFE_NH_RESOLVE_THROTTLED

System Log Message	Next-hop resolution requests from interface <i>logical-interface-index</i> 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.
Type	Event: This message reports an event, not an error

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

Severity error
Facility LOG_PFE

PFE_SCCP_RM_CLIENTID_FAIL

System Log Message Failed to get SCCP Resource Manager client identifier
Description Failed to get the SCCP Resource Manager client identifier.

Type Error: An error occurred
Severity error
Facility LOG_PFE

PFE_SCREEN_MT_CFG_ERROR

System Log Message failed to *operation* the screen config due to *error-message*
Description failed to change the configuration of screen module

Type Error: An error occurred
Severity error
Facility LOG_PFE

PFE_SCREEN_MT_CFG_EVENT

System Log Message [*operation*]: screen name - *context-name*
Description configuration of screen module is changed

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

PFE_SCREEN_MT_ZONE_BINDING_ERROR

System Log Message screen *index1* failed to apply to zone *index2* due to *reason*
Description failed to bind screen to zone

Type Error: An error occurred
Severity error
Facility LOG_PFE

PFE_SIP_MEM_INIT_FAILED

System Log Message Failed to create memory pool for *object-name*
Description Failed to create a memory pool for SIP.

Type Error: An error occurred

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

CHAPTER 83

PFED System Log Messages

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

System Log Message	Unable to retrieve notification statistics
Description	The Packet Forwarding Engine process (pfed) could not retrieve Packet Forwarding Engine notification statistics.
Type	Error: An error occurred
Severity	warning
Facility	LOG_PFE

CHAPTER 84

PGCPD System Log Messages

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

System Log Message	The pgcpd process shut down
Description	The packet gateway control process (pgcpd) state was shut down.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

PGCPD_STARTUP

System Log Message	The pgcpd process just started up
Description	The packet gateway control process (pgcpd) just started up
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

PGCPD_SWITCH_OVER

System Log Message	switch over
Description	Switch over from active to backup Routing Engine
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

CHAPTER 85

PING System Log Messages

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

System Log Message	pingCtlOwnerIndex = <i>test-owner</i> , pingCtlTestName = <i>test-name</i>
Description	The jitter for the egress 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_EGRESS_STDDEV_THRESH_EXCEED

System Log Message	pingCtlOwnerIndex = <i>test-owner</i> , pingCtlTestName = <i>test-name</i>
Description	The standard deviation of the egress 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_EGRESS_THRESHOLD_EXCEEDED

System Log Message	pingCtlOwnerIndex = <i>test-owner</i> , pingCtlTestName = <i>test-name</i>
Description	The egress 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_INGRESS_JTR_THRESH_EXCEED

System Log Message	pingCtlOwnerIndex = <i>test-owner</i> , pingCtlTestName = <i>test-name</i>
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 = <i>test-owner</i> , pingCtlTestName = <i>test-name</i>
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 = <i>test-owner</i> , pingCtlTestName = <i>test-name</i>
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 = <i>test-owner</i> , pingCtlTestName = <i>test-name</i>
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 = <i>test-owner</i> , pingCtlTestName = <i>test-name</i>
Description	The jitter for the round 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_RTT_STDDV_THRESH_EXCEED

System Log Message pingCtlOwnerIndex = *test-owner*, pingCtlTestName = *test-name*
Description The standard deviation of the round 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_RTT_THRESHOLD_EXCEEDED

System Log Message pingCtlOwnerIndex = *test-owner*, pingCtlTestName = *test-name*
Description The round 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_TEST_COMPLETED

System Log Message pingCtlOwnerIndex = *test-owner*, pingCtlTestName = *test-name*
Description All probes were sent and the number of failed probes was less than the pingCtlTrapTestFailureFilter threshold.

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

PING_TEST_FAILED

System Log Message pingCtlOwnerIndex = *test-owner*, pingCtlTestName = *test-name*
Description All probes were sent but the number of failed probes equaled or exceeded the pingCtlTrapTestFailureFilter threshold.

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

PING_UNKNOWN_THRESH_TYPE_EXCEED

System Log Message	pingCtlOwnerIndex = <i>test-owner</i> , pingCtlTestName = <i>test-name</i>
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

CHAPTER 86

PKID System Log Messages

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

System Log Message	Running FIPS self-tests after key generation
Description	Running FIPS self-tests for PRNG, HMAC-SHA, RSA, and DSA.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

PKID_CORRUPT_CERT

System Log Message	Certificate subject field does not match length: <i>error-message</i>
Description	The certificate subject name and length are inconsistent.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

PKID_FIPS_KAT_SUCCESS

System Log Message	FIPS <i>test-name</i> Known Answer Test executed successfully
Description	The FIPS Known Answer Test completed successfully.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

PKID_PV_ASYM_KEYGEN

System Log Message	Asymmetric key-pair (<i>error-message</i>) generation failure
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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 fro <i>source-filename</i>
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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

System Log Message	Soft assertion failed at line <i>line-number</i> in file ' <i>source-filename</i> ' with error " <i>message</i> ", but ppmdd with PID <i>pid</i> continued running
Description	The source code for the periodic package management process (ppmd) includes internal self-consistency checks. As the ppmdd 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 ppmdd 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_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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB19021 .

PPMD_MIRROR_ERROR

System Log Message	Unable to establish BFD mirror connection between Routing Engines: <i>error-message</i>
Description	The PPMD could not establish the mirror connection between the master and backup Routing Engines.
Type	Error: An error occurred
Severity	warning
Facility	LOG_NEWS

Cause The master and backup Routing Engines are running incompatible versions of the Junos OS.

Action Update the Junos OS to compatible versions on the master and backup Routing Engines.

PPMD_OPEN_ERROR

System Log Message *function-name: open error on pipe to protocol-name (error-message)*

Description The periodic packet management process (ppmd) could not initialize the indicated protocol.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

Action Contact your technical support representative.

PPMD_READ_ERROR

System Log Message Read error on pipe from *protocol-name: reason (error-message)*

Description The periodic packet management process (ppmd) could not read a message on a pipe for the indicated protocol.

Type Error: An error occurred

Severity info

Facility LOG_NEWS

Action Contact your technical support representative. For more information, see <http://kb.juniper.net/InfoCenter/index?page=content&id=KB19022>.

PPMD_WRITE_ERROR

System Log Message *function-name: write error on pipe to protocol-name (error-message)*

Description The periodic packet management process (ppmd) could not write a message on a pipe for the indicated protocol.

Type Error: An error occurred

Severity error

Facility LOG_NEWS

Action Contact your technical support representative.

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: <i>error-message</i>
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 <i>interface-name</i> received response ' <i>operation</i> ' with CHAP ID <i>message-id</i> , 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_GETHOSTNAME_FAILED

System Log Message	<i>interface-name</i> : Unable to obtain hostname for outgoing CHAP message: <i>error-message</i>
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

Facility LOG_AUTH

PPPD_CHAP_INVALID_IDENTIFIER

System Log Message Interface *interface-name* received '*operation*' message with CHAP ID *message-id* instead of expected ID *expected-value*

Description 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.

Type Error: An error occurred

Severity info

Facility LOG_AUTH

PPPD_CHAP_INVALID_OPCODE

System Log Message *interface-name*: received invalid operation code *operation* (type *operation-code*, CHAP ID *message-id*)

Description The Point-to-Point Protocol process (pppd) received a Challenge Handshake Authentication Protocol (CHAP) message that included the indicated operation code, which is invalid.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

PPPD_CHAP_LOCAL_NAME_UNAVAILABLE

System Log Message Unable to determine value for 'Name' in outgoing CHAP packet

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

PPPD_CHAP_OPERATION_UNEXPECTED

System Log Message *interface-name*: unexpected operation type *operation* (CHAP ID *message-id*)

Description 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.

Type Error: An error occurred

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 <i>interface-name</i> : <i>error-message</i>
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 <i>interface-name</i> received ' <i>operation</i> ' message with PAP ID <i>message-id</i> instead of expected ID <i>expected-value</i>
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 <i>interface-name</i> received ' <i>operation</i> ' message with PAP ID <i>message-id</i> and invalid operation code <i>operation-code</i>
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.

Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH
Cause	The local password was not defined for the local hostname.

PPPD_PAP_OPERATION_UNEXPECTED

System Log Message	<i>interface-name</i> : unexpected operation type <i>operation</i> (PAP ID <i>message-id</i>)
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.
Type	Error: An error occurred
Severity	info
Facility	LOG_AUTH

PPPD_POOL_ADDRESSES_EXHAUSTED

System Log Message	No addresses available in pool " <i>pool-name</i> " to assign to remote peer on interface <i>interface-name</i>
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.
Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH
Action	Increase the number of addresses in the address pool.

PPPD_RADIUS_ADD_SERVER_FAILED

System Log Message	Unable to add RADIUS server <i>radius-server</i> for profile <i>access-profile</i> : <i>error-message</i>
Description	The Point-to-Point Protocol process (pppd) could not add the indicated RADIUS server for the indicated access profile.
Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH

PPPD_RADIUS_ALLOC_PASSWD_FAILED

System Log Message	Unable to allocate RADIUS password of size <i>size</i> : <i>error-message</i>
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Description 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.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

PPPD_RADIUS_CREATE_FAILED

System Log Message Unable to allocate RADIUS module handle: *error-message*

Description The Point-to-Point Protocol process (pppd) attempted to allocate a RADIUS authentication module as part of its authentication sequence. The allocation failed.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

PPPD_RADIUS_CREATE_REQ_FAILED

System Log Message Unable to create RADIUS access request message: *error-message*

Description The Point-to-Point Protocol process (pppd) could not create an access request message to send to the RADIUS server.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

PPPD_RADIUS_GETHOSTNAME_FAILED

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

Description 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.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

PPPD_RADIUS_MESSAGE_UNEXPECTED

System Log Message Unknown response from RADIUS server: *return-value*

Description The RADIUS authentication module for the Point-to-Point Protocol process (pppd) received a message from the RADIUS server that it could not process.

Type Error: An error occurred

Severity error
Facility LOG_AUTH

PPPD_RADIUS_NO_VALID_SERVERS

System Log Message Unable to find valid RADIUS server for profile *access-profile*

Description The Point-to-Point Protocol process (pppd) could not access a valid RADIUS server to use for the indicated access profile.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

PPPD_RADIUS_OPEN_FAILED

System Log Message rad_auth_open failed: *error-message*

Description The Point-to-Point Protocol process (pppd) could not create a RADIUS object handle, which it uses to communicate with the RADIUS server.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

PPPD_RADIUS_ROUTE_INST_ENOENT

System Log Message Ignored RADIUS server *radius-server* for profile *access-profile* because routing instance *routing-instance* did not exist

Description The indicated routing instance, which the Point-to-Point Protocol process (pppd) uses for routing of RADIUS packets, was not defined.

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

Severity notice

Facility LOG_AUTH

Cause The process of adding the required routing instance was still in progress when the message was logged.

Action None required. Authentication with the indicated RADIUS server is automatically reattempted, and can succeed when the interface exists.

CHAPTER 89

PROFILER System Log Messages

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

System Log Message	SIGHUP - re-reading configuration
Description	In response to a SIGHUP signal, the profiler service process (profilerd) read its configuration from the configuration database
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

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

System Log Message	evCreate failed (<i>error-message</i>)
Description	The redundant interfaces process (rdd) 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 KB19023 .

RDD_IFDEV_ADD_FAILURE

System Log Message	<i>function-name</i> : unable to add interface device <i>interface-name</i> (<i>error-message</i>)
Description	The redundant interfaces process (rdd) could not create 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_DELETE_FAILURE

System Log Message	<i>function-name</i> : rtslib delete operation failed for interface device <i>interface-name</i> (<i>error-message</i>)
Description	The redundant interfaces process (rdd) could not delete 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_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	<i>function-name</i> : repeated attempt to add interface device <i>interface-name</i> failed (<i>error-message</i>)
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 <i>event-name</i> changed state of interface <i>interface-name</i> from ' <i>old-state</i> ' to ' <i>new-state</i> '
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

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: <i>error-message</i>
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: <i>error-message</i>
Description	The remote Simple Network Management Protocol (SNMP) operations process (rmopd) could not convert a numeric host address to the corresponding hostname text string.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RMOPD_ADDRESS_TARGET_INVALID

System Log Message rmop_util_set_address status message: *error-message*

Description 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.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RMOPD_ICMP_ADDR_TYPE_UNSUPPORTED

System Log Message Only IPv4 source address is supported

Description 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.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RMOPD_IFINDEX_NOT_ACTIVE

System Log Message ifindex: *snmp-interface-index*

Description 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.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RMOPD_IFINDEX_NO_INFO

System Log Message No information for *snmp-interface-index*, message: *error-message*

Description 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 index.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RMOPD_IFNAME_NOT_ACTIVE

System Log Message ifname: *interface-name*

Description 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.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RMOPD_IFNAME_NO_INFO

System Log Message No information for *interface-name*, message: *error-message*

Description 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.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RMOPD_ROUTING_INSTANCE_NO_INFO

System Log Message No information for routing instance *routing-instance*: *error-message*

Description The indicated routing instance does not exist, so the Simple Network Management Protocol (SNMP) remote operations process (rmopd) could not retrieve information about it.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RMOPD_TRACEROUTE_ERROR

System Log Message Message: *error-message*

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

CHAPTER 92

RPD System Log Messages

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

System Log Message	abort <i>executable-name</i> [<i>pid</i>] version <i>version</i> built by <i>builder</i> on <i>date</i> : <i>error-message</i>
Description	The routing protocol process (rpd) terminated because of an internal error.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Examine the messages that immediately follow this message in the system log for information about possible causes. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB19047 .
Cause	An internal software failure occurred.

RPD_ACTIVE_TERMINATE

System Log Message	Exiting with active tasks: <i>task-name</i>
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Description After receiving multiple termination requests, the routing protocol process (rpd) exited without performing the indicated cleanup tasks.

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

Severity notice

Facility LOG_DAEMON

Action For more information, see
<http://kb.juniper.net/InfoCenter/index?page=content&id=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 <i>route-prefix</i> 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 <i>prefix-length</i> is too short for prefix <i>route-prefix</i>
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 <i>destination-address</i> port <i>destination-port</i> at <i>time</i>
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 <i>destination-address</i> port <i>destination-port</i> relay <i>source-address</i> port <i>source-port</i> on interface <i>interface-name</i> at <i>time</i>
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 <i>destination-address</i> port <i>destination-port</i> relay <i>source-address</i> port <i>source-port</i> on interface <i>interface-name</i> at <i>time</i>
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 <i>executable-name</i> [<i>pid</i>]: file " <i>source-filename</i> ", line <i>line-number</i> : " <i>message</i> "
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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <i>argument</i> address <i>ip-address</i>
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	LOG_DAEMON
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 <i>data-id</i> , 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	LOG_DAEMON

RPD_BGP_NEIGHBOR_STATE_CHANGED

System Log Message	BGP peer <i>peer-name</i> changed state from <i>old-state</i> to <i>new-state</i> (event <i>event-type</i>)
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 LOG_DAEMON

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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB19056 .

RPD_DYN_CFG_GET_SES_TYPE_FAILED

System Log Message	Get session type for session <i>client-session-id</i> failed: <i>error-code</i>
Description	The routing protocol process (rpd) tried to get the session type from the session snapshot and failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

RPD_DYN_CFG_GET_SNAPSHOT_FAILED

System Log Message	Get session id <i>client-session-id</i> snapshot failed: <i>error-code</i>
Description	The routing protocol process (rpd) tried to load client session data from the database and failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative. For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB19057 .

RPD_DYN_CFG_PDB_CLOSE_FAILED

System Log Message	Failed to close profile database: <i>error-code</i>
Description	The routing protocol process (rpd) tried to close the profile database and failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB19058 .

RPD_DYN_CFG_PDB_OPEN_FAILED

System Log Message	Failed to open profile database: <i>error-code</i>
Description	The routing protocol process (rpd) tried to open the profile database and failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB19059 .

RPD_DYN_CFG_PROCESSING_FAILED

System Log Message	Module <i>module</i> 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB19060 .

RPD_DYN_CFG_REGISTER_FAILED

System Log Message	Dynamic config registration failed: <i>error-message</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB19061 .

RPD_DYN_CFG_REQUEST_ACK_FAILED

System Log Message	Failed to ack request <i>data-id</i> : <i>error-code</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB19062 .

RPD_DYN_CFG_RESPONSE_SLOW

System Log Message	Dynamic config response for session id <i>client-session-id</i> took <i>system-seconds</i> seconds
Description	The routing protocol process (rpd) is responding slowly to dynamic config requests.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

RPD_DYN_CFG_SCHEMA_OPEN_FAILED

System Log Message	Could not open configuration schema: <i>error-message</i>
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	For more information, see http://kb.juniper.net/InfoCenter/index?page=content&id=KB19063 .

RPD_DYN_CFG_SES_RECOVERY_FAILED

System Log Message	Recovery of session <i>client-session-id</i> 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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB19066 .

RPD_DYN_CFG_SET_CONTEXT_FAILED

System Log Message	Set dynamic config context for profile <i>profile-name</i> session <i>client-session-id</i> failed
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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

RPD_DYN_CFG_SMID_RECOVERY_FAILED

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_ESIS_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_ESIS_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 <i>new-interface-name new-index</i> , old <i>old-interface-name old-value</i>)
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 <i>new-interface-name new-index</i> old <i>old-interface-name old-value</i>)
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 <i>new-interface-name new-index</i> , old <i>old-interface-name old-value</i>)
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 <i>count</i> and group-increment <i>ip-address</i> 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 <i>object-name</i> configuration object <i>identifier</i> field has an invalid value of <i>value</i>
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_IGMP_CFG_SOURCE_OUT_OF_RANGE

System Log Message	The combination of source-count <i>count</i> and source-increment <i>ip-address</i> causes some of the sources out of range.
Description	The configuration request failed because the indicated configuration object contained a source 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_DYN_CFG_ALREADY_BOUND

System Log Message	Dynamic configuration session id <i>client-session-id</i> for interface <i>interface-name</i> is already bound to interface <i>old-interface-name</i> .
Description	The indicated dynamic configuration session id is already bound to another interface. The dynamic configuration instantiation request was rejected.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Unbind session id from existing interface.

RPD_IGMP_DYN_CFG_INVALID_STMT

System Log Message	Invalid dynamic configuration statement: <i>configuration-statement</i>
Description	The indicated dynamic configuration statement was invalid. The dynamic configuration instantiation request was rejected.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Remove the unsupported configuration statement.

RPD_IGMP_DYN_CFG_SES_ID_ADD_FAIL

System Log Message	Failed to add dynamic configuration session id <i>client-session-id</i> to interface <i>interface-name</i> .
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 <i>interface-name</i> with session id <i>client-session-id</i> found an existing entry with a different session id of <i>client-session-id-1</i> .
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_GROUP_LIMIT_EXCEED

System Log Message	IGMP group limit exceeded Instance: <i>instance</i> Interface: <i>interface-name</i> .Group Limit: <i>group-limit</i> Current Group Count: <i>current-groups</i>
Description	IGMP groups on this interface exceeds limit configured for this group on this interface in this instance.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_IGMP_GROUP_THRESHOLD_EXCEED

System Log Message	IGMP group threshold exceeded Instance: <i>instance</i> Interface: <i>interface-name</i> Group Threshold: <i>group-threshold</i> Current Group Count: <i>current-groups</i>
Description	IGMP groups on this interface exceeds threshold configured for this group on this interface in this instance.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_IGMP_GRP_THRESH_LIMIT_BELOW

System Log Message	IGMP group count went below configured threshold/limitInstance: <i>instance</i> Interface: <i>interface-name</i> .Group Limit: <i>group-limit</i> Group Threshold: <i>group-threshold</i> Current Group Count: <i>current-groups</i>
Description	IGMP groups on this interface are now below the limit configured for this group on this interface in this instance.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_IGMP_JOIN

System Log Message	Listener <i>source-address</i> sent a join to <i>destination-address</i> for group <i>group-address</i> source <i>sender-address</i> on interface <i>interface-name</i> 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

Severity info

Facility LOG_DAEMON

RPD_IGMP_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 IGMP group membership timeout.

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

Severity info

Facility LOG_DAEMON

RPD_IGMP_ROUTER_VERSION_MISMATCH

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

Severity warning

Facility LOG_DAEMON

RPD_ISIS_ADJDOWN

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

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.

Action For more information, see KB19067.

RPD_ISIS_ADJUP

System Log Message	IS-IS new <i>Lisis-level</i> adjacency to <i>neighbor-system-ids</i> on <i>interface-name</i>
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 <i>Lisis-level</i> adjacency to <i>neighbor-system-ids</i> on <i>interface-name</i> 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 <i>interface-name</i> advertised with infinite metric for <i>duration</i> 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 <i>Lisis-level</i> LSP checksum error, interface <i>interface-name</i> , LSP id <i>lspl</i> , sequence <i>sequence-number</i> , checksum <i>checksum</i> , lifetime <i>duration</i>
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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 mor einformation, 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 rpd, (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*

Description 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.

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_KRT_DELETED_RTT

System Log Message *task-name: received deleted routing table from the kernel for family address-family-type table ID table-id*

Description The routing protocol process (rpd) received a message from the kernel that referred to a routing table that no longer exists.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

RPD_KRT_IFA_GENERATION

System Log Message *ifa generation mismatch -- ifl interface-name rpd rpd-generation kernel kernel-generation*

Description 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.

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

System Log Message	<i>task-name</i> CHANGE for ifd <i>interface-device-index address/prefix-length</i> failed, error " <i>error-message</i> "
Description	The routing protocol process (rpd) sent a request to the kernel to change the state of the indicated interface. 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_IFDEST_GET

System Log Message	<i>task-name</i> IFDEST GET for ifd <i>rpd-interface-name</i> failed, error " <i>error-message</i> "
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	<i>task-name</i> GET index for ifd <i>interface-name</i> failed, error " <i>error-message</i> "
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 (<i>mode</i>) specified for interface device <i>interface-name</i> ; defaulting to port mode
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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

Description 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.

Type Error: An error occurred

Severity notice

Facility LOG_DAEMON

RPD_KRT_IFD_GENERATION

System Log Message ifd *interface-device-index* generation mismatch -- rpd *rpd-generation* kernel *kernel-generation*

Description 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.

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_IFL_CELL_RELAY_INV_MODE

System Log Message Invalid mode (*mode*) specified for logical interface *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 logical interface, but the specified cell-relay mode (port, virtual-circuit, or virtual-path) was invalid.

Type Error: An error occurred

Severity notice

Facility LOG_DAEMON

RPD_KRT_IFL_CELL_RELAY_NO_MODE

System Log Message No mode specified for logical interface *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 logical interface but not the cell-relay mode.

Type Error: An error occurred

Severity notice

Facility LOG_DAEMON

RPD_KRT_IFL_GENERATION

System Log Message ifl *logical-interface-index* generation mismatch -- rpd *rpd-interface-name* *rpd-generation* kernel *kernel-interface-name.kernel-interface-unit* *kernel-generation*

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 <http://kb.juniper.net/InfoCenter/index?page=content&id=KB19070>.

RPD_KRT_NEXTHOP_OVERFLOW

System Log Message	<i>type route-prefix</i> : number of next hops (<i>count</i>) exceeded the maximum allowed (<i>maximum-value</i>) -- 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 <i>interface-device-index</i> for interface <i>logical-interface-index</i> (<i>interface-name</i>)
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 <i>kernel-version</i> != rpd <i>rpd-version</i>) -- 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 <i>label-type</i> labels for site <i>name</i> with ID <i>identifier</i> in instance <i>vpn-name</i>
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 <i>route-discriminator</i> and <i>route-discriminator2</i>) have the same site ID (<i>identifier</i>) in VPN <i>vpn-name</i>
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 <i>identifier</i> configured on remote PE (RD <i>route-discriminator</i>) and local PE in VPN <i>vpn-name</i> (non-multihomed site <i>name</i>)
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 <i>vc-name</i> 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 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

System Log Message State of Layer 2 VC *vc-name* changed from UP to *state*

Description The state of the indicated Layer 2 virtual private network (VPN) virtual circuit (VC) changed as indicated (to either down or deleted).

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

Severity notice

Facility LOG_DAEMON

RPD_LAYER2_VC_PING_DOWN

System Log Message Ping failure for Layer 2 VC *vc-name*

Description The routing protocol process (rpd) determined that the Ping for the indicated Layer 2 virtual private network (VPN) virtual circuit (VC) failed.

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

Severity notice

Facility LOG_DAEMON

RPD_LAYER2_VC_UP

System Log Message State of Layer 2 VC *vc-name* changed to UP

Description The state of the indicated Layer 2 virtual private network (VPN) virtual circuit (VC) changed to up.

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

Severity info

Facility LOG_DAEMON

RPD_LDP_BFD_DOWN

System Log Message LDP BFD session for FEC *fec-address* went down

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) terminated.

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

Severity notice

Facility LOG_DAEMON

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 LOG_DAEMON

Action Modify the instance restart-duration and ldp GR configurations.

RPD_LDP_INTF_BLOCKED

System Log Message	Duplicate session ID detected from <i>neighbor-addressi</i> , interface <i>interface-name</i> , 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 <i>interface-name</i> 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_NBRDOWN

System Log Message	LDP neighbor <i>neighbor-addressi</i> (<i>interface-name</i>) 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_NBRUP

System Log Message	LDP neighbor <i>neighbor-addressi</i> (<i>interface-name</i>) 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 <i>fec-address</i>
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 <i>neighbor-addressi</i> is down, reason: <i>reason</i>
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 <i>neighbor-addressi</i> 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 <i>address</i> , client request ID 0x <i>request-id</i>
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	<i>operation</i> operation failed: control channel <i>logical-interface-index</i> 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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

RPD_LMP_NO_CALLBACK

System Log Message	No function callback for label removed event
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

RPD_LMP_NO_MEMORY

System Log Message	<i>function-name</i> : malloc() failed (<i>error-message</i> , errno <i>error-code</i>)
Description	The routing protocol process (rpd) could not allocate memory.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	An internal software failure occurred.

RPD_LMP_NO_PEER

System Log Message	Peer <i>peer-id</i> not found for TE link <i>link-name</i> (index <i>link-id</i>)
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

RPD_LMP_PEER

System Log Message	<i>operation</i> operation failed: peer <i>peer-name</i> (index <i>peer-id</i>) <i>reason</i>
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_IFL

System Log Message	<i>operation</i> operation failed because <i>reason</i> for peer <i>peer-name</i> (index <i>peer-id</i>): <i>error-message</i> (errno <i>error-code</i>)
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_LMP_RESOURCE

System Log Message	<i>operation</i> operation failed: resource <i>resource</i> (type <i>type</i> , index <i>index</i>) <i>reason</i>
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 <i>link-id</i> not found for resource <i>resource</i> (type <i>type</i> , index <i>index</i>)
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	<i>function-name</i> : handling write exception (<i>error-message</i> , <i>errno error-code</i>)
Description	The routing protocol process (rpd) could not send a message to the Label Management Protocol (LMP) process (Impd).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

RPD_LMP_SEND_ALLOCATION_MESSAGE

System Log Message	Unable to send allocation message: <i>error-message</i> (<i>error-code</i>)
Description	The routing protocol process (rpd) could not send an allocation message.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

RPD_LMP_SYSFAIL

System Log Message	Unable to start <i>type</i> timer
Description	The routing protocol process (rpd) discovered that the Label Management Protocol (LMP) process (Impd) was not running. The rpd process attempted to start the indicated type of timer for restarting the Impd process or reestablishing a connection to it, but the attempt failed.
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 reasons that Impd failed.

RPD_LMP_TE_LINK

System Log Message	<i>operation</i> operation failed: TE link <i>link-name</i> (index <i>index</i>) <i>reason</i>
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.

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RPD_LMP_TE_LINK_INDEX

System Log Message No more TE-link indexes
Description No more traffic-engineering link indexes were available for allocation.

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

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 LOG_DAEMON

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 LOG_DAEMON

RPD_MC_COSD_WRITE_ERROR

System Log Message	Unable to write to pipe to COS process: (<i>error-message</i>)
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 <i>ip-address</i> for backup-pe-group <i>group-name</i> in <i>routing-instance</i> 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 <i>client-session-id</i> for interface <i>interface-name</i> is already bound to interface <i>old-interface-name</i> .
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 <i>client-session-id</i> to interface <i>interface-name</i> .
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 <i>interface-name</i> with session id <i>client-session-id</i> found an existing entry with a different session id of <i>client-session-id-1</i> .
Description	The dynamic configuration instantiation request was rejected because the request matched an existing dynamic configuration block that had a different session ID.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

RPD_MC_FWD_CACHE_SUPPRESSED

System Log Message	Number of entries (<i>routing-instance</i>) in Multicast Forwarding cache exceeded configured suppress_val (<i>address-family</i>) in instance <i>num-mc-fwd-cache-entries</i> for family <i>num-mc-fwd-cache-suppress</i>
Description	Multicast forwarding cache suppressed as number of entries in the cache exceeded configured suppress value.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

RPD_MC_FWD_CACHE_THRESH_BELOW

System Log Message	Number of entries (<i>routing-instance</i>) in Multicast Forwarding cache went below configured warning threshold (<i>address-family</i>) in instance <i>num-mc-fwd-cache-entries</i> for family <i>num-mc-fwd-cache-threshold</i>
Description	Number of entries in the multicast forwarding cache went below configured warning threshold value.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

RPD_MC_FWD_CACHE_THRESH_EXCEED

System Log Message	Number of entries (<i>routing-instance</i>) in Multicast Forwarding cache exceeded configured warning threshold (<i>address-family</i>) in instance <i>num-mc-fwd-cache-entries</i> for family <i>num-mc-fwd-cache-threshold</i>
Description	Number of entries in the multicast forwarding cache exceeded configured warning threshold value.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

RPD_MC_FWD_CACHE_UNSUPPRESSED

System Log Message	Number of entries (<i>routing-instance</i>) in Multicast Forwarding cache went below configured reuse_val (<i>address-family</i>) in instance <i>num-mc-fwd-cache-entries</i> for family <i>num-mc-fwd-cache-reuse</i>
Description	Multicast forwarding cache suppressed as number of entries in the cache went below configured reuse value.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

RPD_MC_LOCAL_DESIGNATED_PE

System Log Message	Local PE is now the designated forwarder for backup-pe-group <i>group-name</i> in <i>routing-instance</i> 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.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

RPD_MC_OIF_REJECT

System Log Message	Interface <i>interface-name</i> 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.
Type	Event: This message reports an event, not an error
Severity	info

Facility LOG_DAEMON

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.

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

Severity info

Facility LOG_DAEMON

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.

Type Error: An error occurred

Severity warning

Facility LOG_DAEMON

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.

Type Error: An error occurred

Severity warning

Facility LOG_DAEMON

Cause The master and backup Routing Engines are running incompatible versions of the Junos OS .

Action Update the Junos OS to compatible versions on 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.

Type Error: An error occurred

Severity	warning
Facility	LOG_DAEMON
Action	Update the Junos OS to compatible versions on the master and backup Routing Engines.

RPD_MLD_ACCOUNTING_OFF

System Log Message	<i>interface-name time</i>
Description	The Multicast Listener Discovery (MLD) 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_MLD_ACCOUNTING_ON

System Log Message	<i>interface-name time</i>
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 <i>interface-name</i> deleted at <i>time</i> 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 <i>entry</i> .
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 <i>count</i> and group-increment <i>ip-address</i> 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 <i>object-name</i> configuration object <i>identifier</i> field has an invalid value of <i>value</i>
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_MLD_CFG_SOURCE_OUT_OF_RANGE

System Log Message	The combination of source-count <i>count</i> and source-increment <i>ip-address</i> causes some of the sources out of range.
Description	The configuration request failed because the indicated configuration object contained a source 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_DYN_CFG_ALREADY_BOUND

System Log Message	Dynamic configuration session id <i>client-session-id</i> for interface <i>interface-name</i> is already bound to interface <i>old-interface-name</i> .
Description	The indicated dynamic configuration session id is already bound to another interface. The dynamic configuration instantiation request was rejected.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Unbind session id from existing interface.

RPD_MLD_DYN_CFG_INVALID_STMT

System Log Message	Invalid dynamic configuration statement: <i>configuration-statement</i>
Description	The indicated dynamic configuration statement was invalid. The dynamic configuration instantiation request was rejected.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Remove the unsupported configuration statement.

RPD_MLD_DYN_CFG_SES_ID_ADD_FAIL

System Log Message	Failed to add dynamic configuration session id <i>client-session-id</i> to interface <i>interface-name</i> .
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 <i>interface-name</i> with session id <i>client-session-id</i> found an existing entry with a different session id of <i>client-session-id-1</i> .
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_GROUP_LIMIT_EXCEED

System Log Message	MLD group limit exceed Instance: <i>instance</i> Interface: <i>interface-name</i> .Group Limit: <i>group-limit</i> Current Group Count: <i>current-groups</i>
Description	MLD groups on this interface exceeds limit configured for this group on this interface in this instance.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_MLD_GROUP_THRESHOLD_EXCEED

System Log Message	MLD group threshold exceed Instance: <i>instance</i> Interface: <i>interface-name</i> Group Threshold: <i>group-threshold</i> Current Group Count: <i>current-groups</i>
Description	MLD groups on this interface exceeds threshold configured for this group on this interface in this instance.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_MLD_GRP_THRESH_LIMIT_BELOW

System Log Message	MLD group threshold exceed Instance: <i>instance</i> Interface <i>interface-name</i> .Group Limit: <i>group-limit</i> Group Threshold : <i>group-threshold</i> Current Group Count: <i>current-groups</i>
Description	MLD groups on this interface are below limit configured for this group on this interface in this instance.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_MLD_JOIN

System Log Message	Listener <i>source-address</i> sent a join to <i>destination-address</i> for group <i>group-address</i> source <i>sender-address</i> on interface <i>interface-name</i> at <i>time</i>
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 <i>source-address</i> sent a leave to <i>destination-address</i> for group <i>group-address</i> source <i>sender-address</i> on interface <i>interface-name</i> at <i>time</i>
Description	MLD leave event.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

RPD_MLD_MEMBERSHIP_TIMEOUT

System Log Message	Membership timeout for listener <i>source-address</i> for group <i>group-address</i> source <i>sender-address</i> on interface <i>interface-name</i> at <i>time</i>
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 <i>interface-name</i> . Local version: <i>local-version</i> Remote version: <i>remote-version</i>
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_MODE_SWITCH

System Log Message	Switching to <i>mode</i> -bit mode
Description	The routing protocol process (rpd) is attempting to switch between 32- and 64-bit operating mode.
Type	Error: An error occurred
Severity	notice
Facility	LOG_DAEMON

RPD_MODE_SWITCH_FAIL

System Log Message	Mode switch failed: <i>error-message</i>
Description	The routing protocol process (rpd) could not switch to the configured 32- or 64-bit operating mode.

Type Error: An error occurred
Severity error
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
Description The auto-bandwidth adjustment for the indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) already in progress, ignoring new trigger.

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

RPD_MPLS_LSP_BANDWIDTH_CHANGE

System Log Message MPLS LSP *lsp-name* bandwidth changed, lsp bandwidth *bandwidth* bps
Description The bandwidth associated with the indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) changed.

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

RPD_MPLS_LSP_CHANGE

System Log Message	MPLS LSP <i>lsp-name</i> change on <i>path-type(pathname)</i> Route <i>lsp-rro</i> lsp bandwidth <i>bandwidth</i> bps
Description	The indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) was rerouted and its Record Route Object (RRO) changed.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_MPLS_LSP_DOWN

System Log Message	MPLS LSP <i>lsp-name</i> down on <i>path-type(pathname)</i>
Description	The indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) went down and could not be used to send traffic.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_MPLS_LSP_SWITCH

System Log Message	MPLS LSP <i>lsp-name</i> switch from <i>old-path-type(old-pathname)</i> to <i>new-path-type(new-pathname)</i> , Route <i>lsp-rro: reason</i> lsp bandwidth <i>bandwidth</i> bps
Description	The indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) switched from primary path to secondary path or vice versa.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_MPLS_LSP_UP

System Log Message	MPLS LSP <i>lsp-name</i> up on <i>path-type(pathname)</i> Route <i>lsp-rro</i> lsp bandwidth <i>bandwidth</i> bps
Description	The indicated Multiprotocol Label Switching (MPLS) label-switched path (LSP) came up and could be used to send traffic.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_MPLS_OAM_LSP_PING_REPLY_ERR

System Log Message	Received ping reply with an error: <i>error-code</i> .
Description	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
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

RPD_MPLS_OAM_PING_REPLY_TIMEOUT

System Log Message	LSP ping reply timed out
Description	LSP ping timed out waiting for a reply. If any failure action is configured, the failure action will get executed
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

RPD_MPLS_OAM_READ_ERROR

System Log Message	Unable to read from pipe to MPLS OAM process: <i>reason (error-message)</i>
Description	The routing protocol process (rpd) could not read a message available on the read pipe from 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_OAM_WRITE_ERROR

System Log Message	Unable to write to pipe to MPLS OAM process: <i>(error-message)</i>
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 <i>pathname</i> (lsp <i>lsp-name</i>) bandwidth changed, path bandwidth <i>bandwidth</i> 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 <i>pathname</i> went down on LSP <i>lsp-name</i>
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 <i>pathname</i> came up on LSP <i>lsp-name</i>
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 <i>pathname</i> on LSP <i>lsp-name</i>
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
Facility	LOG_DAEMON

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

Facility LOG_DAEMON

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

Facility LOG_DAEMON

RPD_MPLS_PATH_UP

System Log Message MPLS path *pathname* up on LSP *lsp-name* path bandwidth *bandwidthb*

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 LOG_DAEMON

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 LOG_DAEMON

Action Modify the configuration statement to use a valid value.

RPD_MSDP_PEER_DOWN

System Log Message MSDP peer *peer-address* peer-group *peer-group* out of Established state

Description 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.

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

Severity notice

Facility LOG_DAEMON

RPD_MSDP_PEER_UP

System Log Message MSDP peer *peer-address* peer-group *peer-group* into Established state

Description The indicated MSDP peer entered the Established state.

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

Severity info

Facility LOG_DAEMON

RPD_MSDP_SRC_ACTIVE_OVER_LIMIT

System Log Message Number of MSDP source-active messages about *originator* exceeded configured limit (*msdp-sa-max*)

Description 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.

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

Severity error

Facility LOG_DAEMON

RPD_MSDP_SRC_ACTIVE_OVER_LOGWARN

System Log Message Number of MSDP source-active messages about *originator* exceeded configured log warning (*msdp-sa-warn-thresh*)

Description The number of MSDP source-active messages received from the indicated instance, peer, or source exceeded the configured log warning. 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.

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

Severity error

Facility LOG_DAEMON

RPD_MSDP_SRC_ACTIVE_OVER_THRESH

System Log Message Number of MSDP source-active messages about *originator* exceeded configured threshold(*msdp-sa-count*)

Description 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

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.

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

RPD_MSDP_SRC_ACTIVE_UNDER_LIMIT

System Log Message Number of MSDP source-active messages about *originator* no longer over configured log warning (*msdp-sa-max*)

Description 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 does not log every occurrence.

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

RPD_MSDP_SRC_ACTIVE_UNDER_LOGWAR

System Log Message Number of MSDP source-active messages about *originator* no longer exceeded configured log-warning (*msdp-sa-warn-thresh*)

Description The number of MSDP source-active messages received from the indicated instance, peer, or source under the configured log warning. 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.

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

RPD_MSDP_SRC_ACTIVE_UNDER_THRESH

System Log Message Number of MSDP source-active messages about *originator* no longer exceeded configured threshold (*msdp-sa-count*)

Description 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.

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

Severity error
Facility LOG_DAEMON

RPD_MVPN_CFG_PREFIX_LEN_SHORT

System Log Message MVPN *argument*: prefix length *prefix-length* is too short for prefix *route-prefix*, ignoring excess host bits

Description 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.

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

Severity warning

Facility LOG_DAEMON

RPD_OSPF_CFGNBR_P2P

System Log Message Ignored configured neighbors on point-to-point realm *realm-name* interface *interface-name* area *area-idi*

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-idi*: 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-idi* 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 <i>realm-name</i> 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_LSA_WARNING_EXCEEDED

System Log Message	OSPF realm <i>realm-name</i> number of non-local LSAs exceeded warning limit
Description	The number of non self-generated LSAs exceeded warning limit specified for database protection in the indicated realm.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

RPD_OSPF_NBRDOWN

System Log Message	OSPF neighbor <i>neighbor-address</i> (realm <i>realm-name</i> interface-name area <i>area-idi</i>) state changed from <i>old-state</i> to <i>new-state</i> due to <i>event-name</i> (event reason: <i>reason</i>)
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 <i>neighbor-address</i> (realm <i>realm-name</i> interface-name area <i>area-idi</i>) state changed from <i>old-state</i> to <i>new-state</i> due to <i>event-name</i> (event reason: <i>reason</i>)
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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.

Type Error: An error occurred

Severity warning

Facility LOG_DAEMON

Cause The number of export prefixes exceeded the configured limit.

Action Unconfigure or modify export policies that inject a large number of routes.

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.

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

Severity info

Facility LOG_DAEMON

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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause 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.

Action Increase the amount of RAM in the Routing Engine. For more information, see <http://kb.juniper.net/InfoCenter/index?page=content&id=KB14186>.

RPD_PARSE_BAD_COMMAND

System Log Message *executable-name*: problem processing debug shell command for command-line option *option*, command '*command*': *error-message*

Description An invalid debug shell command was specified on the command line.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Reissue the command and correct the error described.

RPD_PARSE_BAD_FILE

System Log Message *executable-name*: problem processing file for command-line option *option*, file '*filename*': *error-message*

Description An invalid debug shell command file was specified on the command line.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Action Reissue the command and correct the error described.

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.

Type Error: An error occurred

Severity	error
Facility	LOG_DAEMON
Action	Reissue the command without the invalid option.

RPD_PARSE_CMD_ARG

System Log Message	<i>executable-name</i> : missing required argument for command-line option <i>option</i>
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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Reissue the command and include the required argument.

RPD_PARSE_CMD_DUPLICATE

System Log Message	<i>executable-name</i> : command-line option <i>option</i> is a duplicate
Description	The command line used to start the indicated process included the indicated duplicate option. The process did not start.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Reissue the command without the duplicate option.

RPD_PARSE_CMD_EXTRA

System Log Message	<i>executable-name</i> : command-line option <i>option</i> is extraneous
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_FOUND_NON_BIDIR_NBR

System Log Message	Instance <i>routing-instance</i> received a PIM Hello from a non-Bidir capable neighbor <i>neighbor-address</i> on <i>interface-name</i>
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Description The routing protocol process (rpd) declared that the indicated PIM neighbor is not PIM-Bidir capable. As a result, PIM-Bidir will be disabled on the indicated interface.

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

Severity error

Facility LOG_DAEMON

RPD_PIM_GRP_RP_MAP_LIMIT_BELOW

System Log Message PIM (group-prefix, RP) current count (*routing-instance*) went below configured limit (*address-family*) in PIM Routing Instance: *pim-rpg-count* for Address Family: *pim-rpg-max*

Description Currently active PIM (group-prefix, RP) count went below configured maximum from above configured maximum earlier.

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

Severity error

Facility LOG_DAEMON

RPD_PIM_GRP_RP_MAP_LIMIT_EXCEED

System Log Message PIM (group-prefix, RP) (*routing-instance*) exceeds configured maximum (*address-family*) in PIM Routing Instance: *pim-rpg-count* for Address Family: *pim-rpg-max*

Description Currently active PIM (group-prefix, RP) count has exceeded configured maximum.

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

Severity error

Facility LOG_DAEMON

RPD_PIM_GRP_RP_MAP_THRES_EXCEED

System Log Message PIM (group-prefix, RP) (*routing-instance*) exceeds configured warning threshold (*address-family*) in PIM Routing Instance: *pim-rpg-count* for Address Family: *pim-rpg-threshold*

Description Currently active PIM (group-prefix, RP) count has exceeded configured maximum.

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

Severity error

Facility LOG_DAEMON

RPD_PIM_JP_INFINITE_HOLDTIME

System Log Message Instance *routing-instance*: Received PIM J/P msg with holdtime 0xffff from *source-address* intf *interface-name*

Description The RPD received a PIM Join/Prune message with holdtime set to 0xffff (infinite).

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

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_PIM_NON_BIDIR_RPF

System Log Message Instance *routing-instance* indicated that the RPF interface, *interface-name*, to the RPA *rp-address* is not a PIM-BIDIR enabled interface

Description The routing protocol process (rpd) declared that the indicated PIM Bidir RPF interface is not a PIM-Bidir enabled interface. As a result, PIM-Bidir forwarding will not work properly.

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

RPD_PIM_REGISTER_LIMIT_BELOW

System Log Message PIM Register current count (*routing-instance*) went below configured limit (*address-family*) in PIM Routing Instance: *pim-register-count* for Address Family: *pim-register-max*

Description Currently active PIM registers count went below configured maximum from above configured maximum earlier. Only those registers that result in creation of (S, G) are counted.

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

Facility LOG_DAEMON

RPD_PIM_REGISTER_LIMIT_EXCEED

System Log Message PIM Register count (*routing-instance*) exceeds configured maximum (*address-family*) in PIM Routing Instance: *pim-register-count* for Address Family: *pim-register-max*

Description Currently active PIM registers count went below configured maximum from above configured maximum earlier. Only those registers that result in creation of (S, G) are counted.

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

Severity error

Facility LOG_DAEMON

RPD_PIM_REG_THRESH_EXCEED

System Log Message PIM Register count (*routing-instance*) exceeds configured warning threshold (*address-family*) in PIM Routing Instance: *pim-register-count* for Address Family: *pim-register-threshold*

Description Currently active PIM registers count went below configured maximum from above configured maximum earlier. Only those registers that result in creation of (S, G) are counted.

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

Severity error

Facility LOG_DAEMON

RPD_PIM_SG_LIMIT_BELOW

System Log Message PIM (S,G) current count (*routing-instance*) went below configured limit (*address-family*) in PIM Routing Instance: *pim-sg-count* for Address Family: *pim-sg-max*

Description Currently active PIM (S, G)/(*, G) count went below configured maximum from above configured maximum earlier.

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

Severity error

Facility LOG_DAEMON

RPD_PIM_SG_LIMIT_EXCEED

System Log Message PIM (S,G) current count (*routing-instance*) exceeds configured maximum (*address-family*) in PIM Routing Instance: *pim-sg-count* for Address Family: *pim-sg-max*

Description Currently active PIM (S, G)/(*, G) count has exceeded configured maximum.

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

Severity error

Facility LOG_DAEMON

RPD_PIM_SG_THRESHOLD_EXCEED

System Log Message PIM (S,G) current count (*routing-instance*) exceeds configured warning threshold (*address-family*) in PIM Routing Instance: *pim-sg-count* for Address Family: *pim-sg-threshold*

Description Currently active PIM sg count has exceeded configured threshold.

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

Severity error

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 LOG_DAEMON

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.

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

Severity warning

Facility LOG_DAEMON

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.

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

Severity warning

Facility LOG_DAEMON

RPD_PLCY_CFG_NEIGHBOR_NETMASK

System Log Message Netmask ignored for neighbor: *argument*.

Description A netmask was specified with the indicated neighbor. The netmask is ignored. In a future release, a neighbor address with netmask may generate a configuration error.

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

Severity warning

Facility LOG_DAEMON

RPD_PLCY_CFG_PARSE_GEN_FAIL

System Log Message Policy warning: *error-message*

Description A conflict was detected while parsing the policy-options configuration hierarchy.

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

Severity warning

Facility LOG_DAEMON

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.

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

Severity warning

Facility LOG_DAEMON

RPD_PPM_READ_ERROR

System Log Message Read error on pipe from ppm: *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 ppm: *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 <i>entry</i> .
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
Action	Contact your technical support representative.

RPD_RA_CFG_INVALID_VALUE

System Log Message	The <i>object-name</i> configuration object <i>identifier</i> field has an invalid value of <i>value</i>
Description	The configuration request failed because the configuration object contained the indicated invalid value.

Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Change the value in the configuration statement to a valid one.

RPD_RA_DYN_CFG_ALREADY_BOUND

System Log Message	Dynamic configuration session id <i>client-session-id</i> for interface <i>interface-name</i> is already bound to interface <i>old-interface-name</i> .
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Description	The dynamic configuration instantiation request was rejected because the indicated session ID was already bound to another interface.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Unbind session id from existing interface.

RPD_RA_DYN_CFG_INVALID_STMT

System Log Message	Invalid dynamic configuration statement: <i>configuration-statement</i>
Description	The dynamic configuration instantiation request was rejected because the indicated dynamic configuration statement was invalid.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Remove the unsupported configuration statement.

RPD_RA_DYN_CFG_SES_ID_ADD_FAIL

System Log Message	Failed to add dynamic configuration session id <i>client-session-id</i> to interface <i>interface-name</i> .
Description	The dynamic configuration instantiation request was rejected because it failed to associate the indicated session ID with the specified interface.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	Contact your technical support representative.

RPD_RA_DYN_CFG_SES_ID_MISMATCH

System Log Message	Dynamic configuration entry for interface <i>interface-name</i> with session id <i>client-session-id</i> found an existing entry with a different session id of <i>client-session-id-1</i> .
Description	The dynamic configuration instantiation request was rejected because it matched an existing dynamic configuration block that had a different session ID.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

Action Contact your technical support representative.

RPD_RDISC_CKSUM

System Log Message	Bad checksum for router solicitation from <i>source-address</i> to <i>destination-address</i>
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.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Cause	The solicitation message was incorrectly generated or damaged in transit.
Action	Examine the host that generated the solicitation message.

RPD_RDISC_NOMULTI

System Log Message	Ignoring interface <i>interface-address</i> on <i>interface-name</i> -- 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.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON
Action	Do not configure router discovery on the interface.

RPD_RDISC_NORECVIF

System Log Message	Unable to locate interface for router solicitation from <i>source-address</i> to <i>destination-address</i>
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

System Log Message Insufficient length (*length*) 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 indicated message length is too short.

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_RIP_AUTH_ACK

System Log Message Ack with invalid authentication from *source-address (interface-name)*

Description The routing protocol process (rpd) ignored an RIP ack because the ack authentication failed.

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

Severity notice

Facility LOG_DAEMON

RPD_RIP_AUTH_REQUEST

System Log Message Request with invalid authentication from *source-address (interface-name)*

Description The routing protocol process (rpd) ignored an RIP request because the request authentication failed.

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

Severity notice

Facility LOG_DAEMON

RPD_RIP_AUTH_UPDATE

System Log Message Update with invalid authentication from *source-address (interface-name)*

Description The routing protocol process (rpd) ignored a RIP update because authentication of the update failed.

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

Severity notice

Facility LOG_DAEMON

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 <i>interface-name</i> : <i>error-message</i>
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 <i>lsp-name</i> down, using bypass <i>bypass-lsp-name</i> <i>reason</i>
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 <i>bypass-lsp-name</i> for protecting interface <i>interface-name</i> went down <i>reason</i>
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.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_RSVP_BYPASS_UP

System Log Message	RSVP bypass <i>bypass-lsp-name</i> for protecting interface <i>interface-name</i> came up
Description	The indicated RSVP link-protection bypass was established to protect the indicated interface.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_RSVP_COS_CFG_WARN

System Log Message	RSVP: Error while checking the existence of [edit class-of-service]: <i>error-message</i>
Description	RSVP detected an error while parsing configurations under the CoS hierarchy. RSVP CoS configurations will be ignored.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_RSVP_INCORRECT_FLOWSPEC

System Log Message	Bandwidth in PATH Tspec greater than RESV flowspec for <i>lsp-name</i>
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.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

RPD_RSVP_LSP_SWITCH

System Log Message	RSVP LSP <i>lsp-name</i> switched to backup; using bypass LSP <i>bypass-lsp-name</i> , route <i>lsp-rro</i>
Description	RSVP detected a failure downstream for the indicated label-switched path (LSP) and switched it to a backup using the indicated bypass LSP.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON
Cause	The downstream interface or router for the LSP went down.

RPD_RSVP_MAXIMUM_SESSIONS

System Log Message	RSVP maximum session limit of <i>limit</i> reached
Description	The routing protocol process (rpd) could not set up an RSVP session because the indicated limit on the number of sessions was reached.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_RSVP_NBRDOWN

System Log Message	RSVP neighbor <i>neighbor-address</i> down on interface <i>interface-name</i> nbr-type <i>neighbor-type</i> , <i>reason</i>
Description	The RSVP neighbor to the indicated address was terminated.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
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 KB19075.

RPD_RSVP_NBRUP

System Log Message	RSVP neighbor <i>neighbor-address</i> up on interface <i>interface-name</i> nbr-type <i>neighbor-type</i>
Description	An RSVP neighbor was established to the indicated address.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_RT_CFG_BR_CONFLICT

System Log Message	static route: <i>route-prefix</i> is also configured as backup-router destination, turn on retain flag to ensure proper functionality
Description	A conflict occurred between the system backup router configuration and the indicated static route.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	Add the retain flag to the static route

RPD_RT_CFG_CREATE_ENTRY_FAILED

System Log Message	Could not create entry <i>entry</i>
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_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

Description 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

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

RPD_RT_DUPLICATE_RD

System Log Message routing-instance *routing-instance* has duplicate route-distinguisher *route-discriminator* as routing-instance *existing-routing-instance*

Description The route-distinguisher assigned to this routing instance has already been assigned to another routing instance (as indicated).

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

RPD_RT_DYN_CFG_INST_NOT_FOUND

System Log Message Routing-instance *instance* associated with session-id *session-id* not found

Description The dynamic-config request for a specific session id and routing instance cannot be completed because the instance was not found

Type Error: An error occurred

Severity error
Facility LOG_DAEMON

RPD_RT_DYN_CFG_TABLE_NOT_FOUND

System Log Message Routing-table *table-name* under routing-instance *instance* associated with session-id *session-id* not found

Description 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

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RPD_RT_ERROR

System Log Message *rt_event_event-name*: fatal state error

Description A route in the routing table was found to be in an unrecoverable error state.

Type Error: An error occurred
Severity critical
Facility LOG_DAEMON
Action For more information, see KB19076.

RPD_RT_IFUP

System Log Message UP route for interface *interface-name* index *logical-interface-index* *address/prefix-length*

Description The interface route for the indicated interface and prefix changed state from down to up, becoming available for routing.

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

RPD_RT_INST_CFG_RESERVED_NAME

System Log Message The routing-instance name *instance* is reserved and cannot be used

Description The routing-instances configuration was rejected by rpd because of a reserved routing-instance name was used

Type Error: An error occurred
Severity error
Facility LOG_DAEMON

RPD_RT_INST_IMPORT_PLCY_WARNING

System Log Message	Instance <i>routing-instance</i> : <i>command</i> routing-options instance-import]error-message
Description	The policy configured for instance-import in the indicated instance needs modification to become operational.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_RT_PATH_LIMIT_BELOW

System Log Message	Number of paths (<i>count</i>) in table <i>table-name</i> is now less than the configured maximum (<i>limit</i>)
Description	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.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

RPD_RT_PATH_LIMIT_REACHED

System Log Message	Number of paths (<i>count</i>) in table <i>table-name</i> status configured maximum (<i>limit</i>)
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 (<i>count</i>) in table <i>table-name</i> reached warning threshold (<i>threshold</i> percent of configured maximum <i>limit</i>)
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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

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.

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

Severity warning

Facility LOG_DAEMON

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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

RPD_RV_SESSIONDOWN

System Log Message Route validation session *ip-address*, *old-state* -> *new-state*

Description An route validation session with the indicated RPKI cache was terminated. The local router no longer receives route validation information from the RPKI cache server.

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

Severity notice

Facility LOG_DAEMON

Cause The communication path to the RPKI cache server was disrupted, a protocol error occurred, or the RPKI cache server was powered down.

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.

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_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	<i>function-name: excessive runtime time during action of module</i>
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	<i>function-name ran for total-time (user-time user, system-time system) doing action</i>
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	<i>signal-name</i> 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	<i>function-name: error-message</i>
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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_SOCKET_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_SOCKET_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 <i>rpd-version</i> , built <i>date</i> by <i>builder</i>
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	<i>task-name</i> terminated by SIG <i>signal-name</i> <i>core-dump-status</i>
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	<i>task-name</i> stopped by SIG <i>signal-name</i>
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
Description	The routing protocol process (rpd) reinitialized.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

RPD_TASK_FORK

System Log Message	Unable to fork <i>task-name</i> : <i>error-message</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB19077 .

RPD_TASK_GETWD

System Log Message	<i>getwd: error-message</i>
Description	The <code>getwd()</code> system call made by the routing protocol process (<code>rpd</code>) 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 <code>rpd</code> process will recover.

RPD_TASK_MASTERSHIP

System Log Message	Assuming mastership
Description	The routing protocol process (<code>rpd</code>) 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

RPD_TASK_NOREINIT

System Log Message	Reinitialization not possible
Description	The routing protocol process (<code>rpd</code>) 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 <i>filename: error-message</i>
Description	The routing protocol process (<code>rpd</code>) tried to close and remove the file that records its process ID (PID), which serves to prevent multiple instances of <code>rpd</code> 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
Facility LOG_DAEMON

RPD_TASK_SIGNALIGNORE

System Log Message sigaction(SIG*signal-name*): *error-message*

Description The routing protocol process (rpd) 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

RPD_TERMINATE_DISK_SPACE

System Log Message	disk full, terminating <i>executable-name</i> [<i>pid</i>] version <i>version</i> built by <i>builder</i> on <i>date</i> .BACKTRACE: <i>message</i>
Description	The routing protocol process (rpd) has terminated due to no disk space available.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	disk-full
Action	Examine disk storage, especially /tmp and /var/tmp, for old or obsolete files such as old core files or old log files that can be safely removed.

RPD_TRACE_FAILED

System Log Message	Unable to write to trace file <i>filename</i>
Description	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 reenables tracing.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

RPD_VPLS_INTF_NOT_IN_SITE

System Log Message	Some interfaces of instance <i>instance</i> are not configured under its single site
Description	Some interfaces of the indicated vpls instance have not been configured under the sole site of the instance.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON
Action	Configure all interfaces of the instance under its single site.

CHAPTER 93

RT System Log Messages

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	<i>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</i>
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	<i>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</i>
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(icmp-type) 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(icmp-type) 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_H323_NAT_COOKIE_NOT_FOUND

System Log Message *object-name* cannot find cookie from session

Description Failed to find the H.323 NAT cookie.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_IPSEC_AUTH_FAIL

System Log Message IPsec error, *error-message*

Description HMAC verification failed for received IPsec packet \ Possibly due to a mis-match in authentication keys.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_IPSEC_BAD_SPI

System Log Message IPsec tunnel on int *interface-name* with tunnel ID *0xtunnel-id* received a packet with a bad SPI. *source-address->destination-address/length, type, SPI 0xindex, SEQ 0xsequence-number*.

Description Received IPsec packet with bad SPI

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_IPSEC_DECRYPT_BAD_PAD

System Log Message Decryption failure: *error-message*

Description Decryption error due to invalid padding content \ during ESP padding check.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_IPSEC_PV_DECRYPTION

System Log Message	Decryption failure: <i>error-message</i>
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: <i>error-message</i>
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 <i>interface-name</i> with tunnel ID <i>Oxtunnel-id!</i> From <i>source-address</i> to <i>destination-address/length</i> , <i>type</i> , SPI <i>Oxindex</i> , SEQ <i>Oxsequence-number</i> .
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: <i>error-message</i>
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 <i>interface-name</i> with tunnel ID <i>Oxtunnel-id!</i> From <i>source-address</i> to <i>destination-address/length</i> , <i>type</i> , SPI <i>Oxindex</i> , SEQ <i>Oxsequence-number</i> .
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Description Received IPSec replay packet

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_MGCP_CALL_LIMIT_EXCEED

System Log Message Exceed maximum call *max active call number**maximum-value*

Description The maximum MGCP active call limit has been exceeded.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_MGCP_DECODE_FAIL

System Log Message Failed to decode MGCP packet

Description Failed to decode MGCP message.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_MGCP_MEM_ALLOC_FAILED

System Log Message Failed to allocate memory for *object-name*

Description Failed to allocate memory for the MGCP objects.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_MGCP_REM_NAT_VEC_FAIL

System Log Message Failed to remove MGCP *object-name* from flow module

Description Failed to remove the MGCP ALG vector from the flow module.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_MGCP_RM_CLIENTID_FAIL

System Log Message MGCP ALG Resource Manager client registration failed

Description Failed to obtain the MGCP Resource Manager client identifier.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_MGCP_UNREG_BY_RM

System Log Message MGCP ALG client has been unregistered by Resource Manager

Description The Resource Manager has unregistered the MGCP Resource Manager client.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_SCCP_CALL_LIMIT_EXCEED

System Log Message Failed to create SCCP ALG call, call limit *maximum-value* exceeded

Description The maximum SCCP call limit has been exceeded.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_SCCP_CALL_RATE_EXCEED

System Log Message The SCCP active call rate limit *maximum-value* has been exceeded

Description The SCCP active call rate limit has been exceeded.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_SCCP_DECODE_FAIL

System Log Message Failed to decode SCCP packet from *source-address->destination-address*

Description Failed to decode SCCP packet.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_SCCP_NAT_COOKIE_NOT_FOUND

System Log Message Failed to find SCCP ALG cookie from session

Description Failed to find SCCP NAT cookie.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_SCCP_REM_NAT_VEC_FAIL

System Log Message Failed to remove SCCP ALG vector from flow module

Description Failed to remove the SCCP ALG vector from the flow module.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_SCCP_UNREG_RM_FAIL

System Log Message Failed to unregister SCCP client from Resource Manager when the ALG was unregistered

Description Failed to unregister SCCP client from Resource Manager when the ALG was unregistered.

Type Error: An error occurred

Severity error

Facility LOG_PFE

RT_SCREEN_ICMP

System Log Message *attack-name* source: *source-address*, destination: *destination-address*, zone name: *source-zone-name*, interface name: *interface-name*, action: *action*

Description ICMP attack category

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

Severity error

Facility LOG_PFE

RT_SCREEN_ICMP_LS

System Log Message [*sys: logical-system-name*] *attack-name* source: *source-address*, destination: *destination-address*, zone name: *source-zone-name*, interface name: *interface-name*, action: *action*

Description ICMP attack category

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

Severity error

Facility LOG_PFE

RT_SCREEN_IP

System Log Message	<i>attack-name</i> source: <i>source-address</i> , destination: <i>destination-address</i> , protocol-id: <i>protocol-id</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	[<i>sys: logical-system-name</i>] <i>attack-name</i> source: <i>source-address</i> , destination: <i>destination-address</i> , protocol-id: <i>protocol-id</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	<i>attack-name</i> message: <i>ip-address</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	[<i>sys: logical-system-name</i>] <i>attack-name</i> message: <i>ip-address</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	<i>attack-name</i> source: <i>source-address:source-port</i> , destination: <i>destination-address:destination-port</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	<i>attack-name</i> destination: <i>destination-address</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	[<i>lsys: logical-system-name</i>] <i>attack-name</i> destination: <i>destination-address</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	[<i>lsys: logical-system-name</i>] <i>attack-name</i> source: <i>source-address:source-port</i> , destination: <i>destination-address:destination-port</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	<i>attack-name</i> source: <i>source-address</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	[<i>sys: logical-system-name</i>] <i>attack-name</i> source: <i>source-address</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	<i>attack-name</i> source: <i>source-address:source-port</i> , destination: <i>destination-address:destination-port</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
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	[<i>sys: logical-system-name</i>] <i>attack-name</i> source: <i>source-address:source-port</i> , destination: <i>destination-address:destination-port</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i> , action: <i>action</i>
Description	UDP attack category
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_PFE

RT_SCREEN_WHITE_LIST

System Log Message	bypass SYN proxy source: <i>source-address</i> , destination: <i>destination-address</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i>
Description	Screen white list category for bypassing a screen
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_PFE

RT_SCREEN_WHITE_LIST_LS

System Log Message	[<i>sys: logical-system-name</i>] bypass SYN proxy source: <i>source-address</i> , destination: <i>destination-address</i> , zone name: <i>source-zone-name</i> , interface name: <i>interface-name</i>
Description	Screen white list category for bypassing a screen
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_PFE

RT_SCTP_LOG_INFO

System Log Message	***SCTP configuration: <i>message</i>
Description	SCTP log info.
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

RT_SCTP_PKT_INFO

System Log Message	***SCTP (type <i>message-type</i> <i>source-address/source-port</i> -> <i>destination-address/destination-port</i>) <i>message</i>
Description	SCTP packet info.
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

RTLOG System Log Messages

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

System Log Message	JLOG test OK, jlog_handle= <i>current-value</i>
Description	Test JSF Log plugin registration.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_PFE

RTLOG_UTP_TCP_SYN_FLOOD

System Log Message	source: <i>source-address-source-port</i> , destination: <i>destination-address-destination-port</i> , zone name: <i>filter-name</i> , interface name: <i>interface-name</i>
Description	Security LOG UTP fake TCP SYN flood attack.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_PFE

RTLOG_UTP_TCP_SYN_FLOOD_LS

System Log Message	lsys: <i>logical-system-name</i> source: <i>source-address-source-port</i> , destination: <i>destination-address-destination-port</i> , zone name: <i>filter-name</i> , interface name: <i>interface-name</i>
Description	Security LOG UTP fake TCP SYN flood attack with Lsys name.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_PFE

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

System Log Message	Failed to bind socket to PFE: <i>error-message</i>
Description	Junos JSR log daemon receives JSR log from a JSR log forwarder. The JSR log daemon failed to connect to the forwarder.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB19083 .

RTLOGD_LOG_READ_ERROR

System Log Message	Failed to read from PFE: <i>error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB19084 .

CHAPTER 96

RTPERF System Log Messages

This chapter describes messages with the **RTPERF** prefix. They are related to performance logs for the data plane.

RTPERF_CPU_THRESHOLD_EXCEEDED

System Log Message	FPC <i>fpc-slot</i> PIC <i>pic-slot</i> CPU utilization exceeds threshold, current value= <i>current-value</i>
Description	PFE cpu threshold exceeded
Type	Event: This message reports an event, not an error
Severity	critical
Facility	LOG_PFE

RTPERF_CPU_USAGE_OK

System Log Message	FPC <i>fpc-slot</i> PIC <i>pic-slot</i> CPU utilization returns to normal, current value= <i>current-value</i>
Description	PFE cpu usage okay
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_PFE

CHAPTER 97

SAVAL System Log Messages

This chapter describes messages with the SAVAL prefix. They are generated by the MAC SA Validate system (jsavald) process.

SAVAL_RTsock_FAILURE

System Log Message	Error with rtsock: <i>error-message</i>
Description	The MAC SA Validate system process (jsavald) 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.

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 (sdx), 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 (sdx) 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 sdx process recovers automatically in this situation.

SDXD_BEEP_INIT_FAIL

System Log Message	BEEP initialization failed
Description	The Session and Resource Control (SRC) process (sdx) 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 (<i>error-code</i>): <i>message</i>
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Description	The indicated Blocks Extensible Exchange Protocol (BEEP) channel could not be started for the indicated reason.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON
Cause	The usual cause is an abnormal operation, which might be described in the system log message.

SDXD_CONNECT_FAIL

System Log Message	Connection to SDX server failed: <i>message</i>
Description	The Session and Resource Control (SRC) process (sdx) could not connect to an SRC server for the indicated reason.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON
Cause	There was a network problem or the server was not running.

SDXD_DAEMONIZE_FAIL

System Log Message	Aborting, unable to run in the background as a daemon: <i>error-message</i>
Description	The Service Deployment System process (sdx) could not create a version of itself to run in the background as a daemon.
Type	Error: An error occurred
Severity	emergency
Facility	LOG_DAEMON
Action	For more information, see KB19088 .

SDXD_EVLIB_FAILURE

System Log Message	<i>function-name: error-message</i>
Description	The Service Deployment System process (sdx) called the indicated function in the event library. The function failed with the indicated error.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	An internal software failure occurred.

SDXD_KEEPAIVES_MISSED

System Log Message	No server keepalives received for three intervals
Description	The Session and Resource Control (SRC) process (sxdx) 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_KEEPAIVE_SEND_FAIL

System Log Message	Unable to send keepalive
Description	The Session and Resource Control (SRC) process (sxdx) 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: <i>reason</i>
Description	The Service Deployment System process (sxdx) 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 <i>operation</i>
Description	The Service Deployment System (sxdx) 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

System Log Message Unable to update process PID file: *error-message*

Description The Service Deployment System process (sdx) attempted to update the file that records its process ID (PID), which serves to prevent multiple instances of sdx from running simultaneously. The attempt failed.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

SDXD_SOCKET_FAILURE

System Log Message *operation* failed: *error-message*

Description The Service Deployment System process (sdx) 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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

Cause An internal software failure occurred.

Action Contact your technical support representative.

CHAPTER 99

SM System Log Messages

This chapter describes messages with the **SM** prefix.

SM_IPPOOL_MM_STATE_CHANGE

System Log Message In [*logical-system-name:routing-instance*] pool *pool-name* MM state changed *prev-maintenance-mode* (*new-maintenance-mode*)

Description This notification signifies that the maintenance-mode state changed for the given pool

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

Severity info

Facility LOG_DAEMON

SM_IPPOOL_POOL_THRESH_EXCEEDED

System Log Message In [*logical-system-name:routing-instance*] pool *pool-name* exceeded threshold *current-threshold* (*configured-threshold*)

Description This notification signifies that the pool utilization for the given pool has exceeded the configured threshold

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

Severity info

Facility LOG_DAEMON

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

System Log Message	Dropped mail to user: <i>error-message</i> . Send failed or queued reached max
Description	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.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

SMTPD_NO_CONFIGURED_SERVER

System Log Message	Unable to send mail to <i>error-message</i> . Configure server with relay
Description	The smtp client process (smtpd) is unable to send mail payload. A gateway server must be configured. This server must allow relaying.
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

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 543](#) and [“SNMPD System Log Messages” on page 723](#).
- 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 603](#).

SNMP_GET_ERROR1

System Log Message	<i>function-name operation failed for object-name: index1 index1 (error-message)</i>
Description	An SNMP Get or GetNext request failed for the indicated object, which has the indicated index.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMP_GET_ERROR2

System Log Message	<i>function-name operation failed for object-name: index1 index1 index2 index2 (error-message)</i>
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_ERROR3

System Log Message	<i>function-name operation failed for object-name: index1 index1 index2 index2 index3 index3 (error-message)</i>
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	<i>function-name operation failed for object-name: index1 index1 index2 index2 index3 index3 index4 index4 (error-message)</i>
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	<i>function-name: reason: error-message</i>
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB19107 .

SNMP_TRAP_LINK_DOWN

System Log Message	ifIndex <i>snmp-interface-index</i> , ifAdminStatus <i>admin-status</i> , ifOperStatus <i>operational-status</i> , ifName <i>interface-name</i>
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 <i>snmp-interface-index</i> , ifAdminStatus <i>admin-status</i> , ifOperStatus <i>operational-status</i> , ifName <i>interface-name</i>
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 = <i>test-owner</i> , traceRouteCtlTestName = <i>test-name</i>
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 = <i>test-owner</i> , traceRouteCtlTestName = <i>test-name</i>
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

SNMP_TRAP_TRACERT_TEST_FAILED

System Log Message traceRouteCtlOwnerIndex = *test-owner*, traceRouteCtlTestName = *test-name*

Description 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.

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

Severity info

Facility LOG_DAEMON

CHAPTER 102

SNMPD System Log Messages

This chapter describes messages with the **SNMPD** 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

System Log Message	<i>function-name: message from source-address to destination-address (index1)</i>
Description	The indicated function failed because the authorization check failed for the interface, Simple Network Management Protocol (SNMP) community, or user making the request.
Type	Error: An error occurred
Severity	notice
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_AUTH_PRIVILEGES_EXCEEDED

System Log Message	<i>function-name: source-address: request exceeded community privileges</i>
Description	The indicated function failed because the Simple Network Management Protocol (SNMP) community making the access request did not have the required privileges.
Type	Error: An error occurred
Severity	notice
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_AUTH_RESTRICTED_ADDRESS

System Log Message	<i>function-name</i> : request from address <i>source-address</i> 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	<i>function-name</i> : <i>source-address</i> : unauthorized SNMP PDU type: <i>pdu-type</i>
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 <i>bind-address</i>
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	<i>function-name: error in operation context context-name</i>
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_ENGINE_ID_CHANGED

System Log Message	Warning: <i>warning-message</i>
Description	The Simple Network Management Protocol (SNMP) agent process (snmpd) maintains an engine id. This engine id has changed .
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_DAEMON

SNMPD_FILE_FAILURE

System Log Message	<i>function-name: fopen filename: error-message</i>
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	<i>function-name: system_default_inaddr: error-message</i>
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	<i>function-name: radix_add failed: error-message</i>
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	<i>function-name: receive message failure: error-message</i>
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	<i>function-name: operation: operation filename: error-message</i>
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	<i>function-name: Null cookie</i>
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	<i>syslog-subtagdelimitermessage</i>
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	<i>function-name: internal Get request error: description, alarm alarm-id, error error-message, variable: name (oid)</i>
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	<i>function-name: sequence mismatch (expected-value, received-value), resyncing</i>
Description	A notification from the kernel to the Simple Network Management Protocol (SNMP) agent process (snmpd) was lost.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

SNMPD_SEND_FAILURE

System Log Message	<i>function-name: send type (index1) failure: error-message</i>
Description	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.
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 KB19110 .

SNMPD_SET_FAILED

System Log Message	<i>Snmp set failed: error-message</i>
Description	Configuration data was changed using an Simple Network Management Protocol (SNMP) Set request, but the SNMP agent process (snmpd) could not save the changes to 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.

SNMPD_SMOID_GEN_FAILURE

System Log Message	Unable to generate OID from <i>product-name</i> (<i>error-message</i>)
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_SOCKET_FAILURE

System Log Message	<i>function-name</i> : socket failure: <i>reason</i> (<i>error-message</i>)
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	<i>function-name</i> : socket failure: <i>reason</i> (<i>error-message</i>)
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	<i>function-name</i> : system function ' <i>system-function-name</i> ' failed: <i>error-message</i>
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: <i>model</i>
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 <i>product-name</i> (<i>error-message</i>)
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	<i>function-name</i> : cleared all throttled traps
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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	<i>function-name</i> : 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
Severity	critical
Facility	LOG_DAEMON

SNMPD_TRAP_GEN_FAILURE

System Log Message	<i>function-name</i> : SNMP trap error: <i>trap-message</i> (<i>error-message</i>)
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	<i>function-name</i> : SNMP trap error: invalid <i>message</i> (<i>value</i>) 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 <i>trap-destination</i> to <i>queue-name</i> 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	<i>function-name</i> : traps queued to <i>trap-destination</i> 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	<i>function-name</i> : after <i>count</i> attempts, deleting <i>trap-count</i> traps queued to <i>trap-destination</i>
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	<i>function-name</i> : maximum queue size exceeded (<i>size</i>), discarding trap to <i>trap-destination</i> from <i>queue-name</i> 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	<i>function-name</i> : traps throttled after <i>count</i> 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	<i>function-name</i> : 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).
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_DAEMON

SNMPD_USER_ERROR

System Log Message	<i>function-name</i> : error in <i>action</i> user ' <i>username</i> ' auth ' <i>authentication-type</i> ' priv ' <i>privilege-type</i> '
Description	The indicated operation (creation, installation, or deletion) failed during configuration of the indicated user.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

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

System Log Message	Compilation of configuration rule <i>rule-name</i> term <i>index</i> failed: <i>reason</i>
Description	The adaptive services process (spd) could not compile a configured object, such as a rule or rule term.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

SPD_CONN_FATAL_FAILURE

System Log Message	Connection attempt failed with fatal error: <i>error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

SPD_CONN_NO_REPLY

System Log Message	<i>function-name</i> : no reply from <i>interface-name</i> (<i>error-message</i>)
Description	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.
Type	Error: An error occurred

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

Severity	emergency
Facility	LOG_DAEMON
Action	For more information, see KB19113 .

SPD_DB_IF_ADD_FAILURE

System Log Message	Unable to add database entry for <i>interface-name</i> : <i>error-message</i>
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 <i>interface-name</i> : <i>error-message</i>
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 <i>service-set</i> : <i>error-message</i>
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 <i>service-set</i> : <i>error-message</i>
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: <i>error-message</i>
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: <i>return-value</i> , error: <i>error-message</i>
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, <i>error-message</i>
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

Facility	LOG_DAEMON
Action	For more information, see KB19115 .

SPD_NOT_ROOT

System Log Message	Must be run as root
Description	The user who attempted to start the adaptive services process (spd) was not the root user.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

SPD_OUT_OF_MEMORY

System Log Message	Insufficient memory for operation <i>operation</i>
Description	The adaptive services process (spd) attempted to allocate memory for an internal object. The attempt failed.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

SPD_PID_FILE_LOCK

System Log Message	Unable to lock PID file: <i>error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

SPD_PID_FILE_UPDATE

System Log Message	Unable to update process PID file: <i>error-message</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

SPD_SERVICE_NEXT_HOP_ADD_FAILED

System Log Message	Unable to add service next hop: <i>error-message (error-code)</i>
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: <i>error-message (error-code)</i>
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 <i>identifier (error-message)</i>
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	<i>function-name: type</i> request failed: <i>error-message</i>
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

System Log Message	Usage: spd [-N] [-v] [-d debug-level]
---------------------------	---------------------------------------

Description The adaptive services process (spd) displayed the syntax statement for the 'spd' command because the command was invoked incorrectly.

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

Severity error

Facility LOG_DAEMON

SSH System Log Messages

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 <i>source-address:source-port</i>
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 (<i>limit</i>) detected on SSH connection initiated from <i>source-address:source-port</i>
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 <i>service-name</i> server: <i>error-message</i>
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

System Log Message	SSH relay error for <i>service-name</i> service: <i>error-message</i>
Description	The indicated error occurred when a Junos process tried to establish secure shell (SSH) relay during initialization of the indicated service.
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 KB18954.

SSH_RELAY_USAGE

System Log Message	Usage: ssh-relay -s <i>service-name</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	ANY

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 (<i>limit</i>) reached by user ' <i>username</i> '
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 ' <i>username</i> ' from host ' <i>source-address</i> '
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 (<i>limit</i>) for user ' <i>username</i> ' reached from ' <i>remote-address</i> '
Description	Several login attempts failed for the indicated username.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	ANY

SSL System Log Messages

This chapter describes messages with the **SSL** prefix. They are generated by the Secure Sockets Layer (protocol) (SSL) services. These logs contain information about logical system names, SSL proxy whitelists, policy information, and SSL proxy information.

SSL is an application-level protocol that provides encryption technology for the Internet. SSL, also called Transport Layer Security (TLS), ensures the secure transmission of data between a client and a server through a combination of privacy, authentication, confidentiality, and data integrity. SSL relies upon certificates and private-public key exchange pairs for this level of security.

SSL_PROXY_ERROR

System Log Message	<i>lsys:logical-system-name session-id</i> <i><source-address/source-port->destination-address/destination-port></i> <i>NAT:<nat-source-address/nat-source-port->nat-destination-address/nat-destination-port></i> <i>profile-name</i> <i><source-zone-name:source-interface-name->destination-zone-name:destination-interface-name></i> <i>message: message</i>
Description	ssl proxy error log
Type	Error: An error occurred
Severity	error
Facility	LOG_PFE

SSL_PROXY_INFO

System Log Message	<i>lsys:logical-system-name session-id</i> <i><source-address/source-port->destination-address/destination-port></i> <i>NAT:<nat-source-address/nat-source-port->nat-destination-address/nat-destination-port></i> <i>profile-name</i> <i><source-zone-name:source-interface-name->destination-zone-name:destination-interface-name></i> <i>message: message</i>
Description	ssl proxy info log
Type	Event: This message reports an event, not an error
Severity	info

Facility LOG_PFE

SSL_PROXY_SESSION_IGNORE

System Log Message *lsys:logical-system-name session-id*
<source-address/source-port->destination-address/destination-port>
NAT:<nat-source-address/nat-source-port->nat-destination-address/nat-destination-port>
profile-name
<source-zone-name:source-interface-name->destination-zone-name:destination-interface-name>
message: message

Description This log is generated when a non-ssl session is allowed to pass through ssl-proxy. This will happen when initially a session is marked for proxy processing and at some later point it turns out to be a non-ssl session.

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

Severity info

Facility LOG_PFE

SSL_PROXY_SESSION_WHITELIST

System Log Message *lsys:logical-system-name session-id host:url*
<source-address/source-port->destination-address/destination-port>
NAT:<nat-source-address/nat-source-port->nat-destination-address/nat-destination-port>
profile-name
<source-zone-name:source-interface-name->destination-zone-name:destination-interface-name>
message: message

Description This log is generated when an session is whitelisted.

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

Severity info

Facility LOG_PFE

SSL_PROXY_SSL_SESSION_ALLOW

System Log Message *lsys:logical-system-name session-id*
<source-address/source-port->destination-address/destination-port>
NAT:<nat-source-address/nat-source-port->nat-destination-address/nat-destination-port>
profile-name
<source-zone-name:source-interface-name->destination-zone-name:destination-interface-name>
message: message

Description This log is generated when an ssl session is allowed to pass through ssl-proxy after some error is detected

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

Severity info

Facility LOG_PFE

SSL_PROXY_SSL_SESSION_DROP

System Log Message *lsys:logical-system-name session-id*
<source-address/source-port->destination-address/destination-port>
NAT:<nat-source-address/nat-source-port->nat-destination-address/nat-destination-port>
profile-name
<source-zone-name:source-interface-name->destination-zone-name:destination-interface-name>
message: message

Description This log is generated when an ssl proxy session is dropped by ssl-proxy

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

Severity info

Facility LOG_PFE

SSL_PROXY_WARNING

System Log Message *lsys:logical-system-name session-id*
<source-address/source-port->destination-address/destination-port>
NAT:<nat-source-address/nat-source-port->nat-destination-address/nat-destination-port>
profile-name
<source-zone-name:source-interface-name->destination-zone-name:destination-interface-name>
message: message

Description ssl proxy warning log

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

Severity info

Facility LOG_PFE

CHAPTER 107

SYSTEM System Log Messages

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

System Log Message	System abnormally shut down
Description	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.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

SYSTEM_OPERATIONAL

System Log Message	System is operational
Description	The system has entered operational status, and security logging has been started.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

SYSTEM_SHUTDOWN

System Log Message	<i>System type by username at time: message</i>
Description	An administrator requested that the system be shut down or rebooted.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON

TFTPD System Log Messages

This chapter describes messages with the **TFTPD** 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

System Log Message	Unexpected address family <i>address-family-type</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	ANY

TFTPD_BIND_ERR

System Log Message	bind: <i>error-message</i>
Description	Binding of a socket to an address failed due to a system error.
Type	Error: An error occurred
Severity	error
Facility	ANY

TFTPD_CONNECT_ERR

System Log Message	connect: <i>error-message</i>
Description	Connection of a socket to an address failed due to a system error.
Type	Error: An error occurred
Severity	error
Facility	ANY

TFTPD_CONNECT_INFO

System Log Message	TFTP operation from address <i>address</i> port <i>port</i> file <i>filename</i>
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 <i>error-message</i>
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): <i>error-message</i>
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: <i>error-message</i>
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	<code>nak error error-code, error-message</code>
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 ' <i>filename</i> ', error: <i>error-message</i>
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 <i>count</i> blocks of <i>block-size</i> size for file ' <i>filename</i> '
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	<code>recvfrom: error-message</code>
Description	The TFTP process (tnp.tftpd) issued the <code>recvfrom()</code> 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	<code>recv: error-message</code>
Description	The TFTP process (tnp.tftpd) could not receive data from the network.

Type	Error: An error occurred
Severity	error
Facility	ANY

TFTPD_SENDCOMPLETE_INFO

System Log Message	Sent <i>count</i> blocks of <i>block-size</i> and 1 block of <i>size</i> for file ' <i>filename</i> '
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.
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

TFTPD_SEND_ERR

System Log Message	send: <i>error-message</i>
Description	The TFTP process (tnp.tftpd) could not send data.
Type	Error: An error occurred
Severity	error
Facility	ANY

TFTPD_SOCKET_ERR

System Log Message	socket: <i>error-message</i>
Description	The TFTP process (tnp.tftpd) could not open a socket for data transmission or reception.
Type	Error: An error occurred
Severity	error
Facility	ANY

TFTPD_STATFS_ERR

System Log Message	statfs <i>filename</i> , error: <i>error-message</i>
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.
Type	Error: An error occurred
Severity	error
Facility	ANY

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_GROUP_ACTION_COMPLETE

System Log Message	UFD action complete for group <i>error-message</i>
Description	Downlink ports configured under group was disabled through UFD action.
Type	Event: This message reports an event, not an error
Severity	alert
Facility	LOG_DAEMON

UFDD_LINK_CHANGE

System Log Message	UFD Grp <i>group-name</i> : Downlink <i>interface-name</i> is <i>state</i>
Description	Status of downlink in link-to-disable changed.
Type	Error: An error occurred
Severity	alert
Facility	LOG_DAEMON
Cause	Status change of Uplinks in link-to-monitor list.

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

System Log Message	User ' <i>username</i> ' not allowed to log in from host <i>client-name</i> (<i>client-address</i>)
Description	The indicated user was denied login based on the location from which the user was logging in.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_AUTH

UI_AUTH_BAD_TIME

System Log Message	Login not allowed at this time for user ' <i>username</i> '
Description	The indicated user was denied login because the user is not permitted to log in at this time.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_AUTH

UI_AUTH_EVENT

System Log Message	Authenticated user ' <i>username</i> ' at permission level ' <i>authentication-level</i> '
Description	The management process (mgd) authenticated the indicated user.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_AUTH

UI_AUTH_INVALID_CHALLENGE

System Log Message	Received invalid authentication challenge for user ' <i>username</i> ': <i>response</i>
Description	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.
Type	Error: An error occurred
Severity	error
Facility	LOG_USER
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_BOOTTIME_FAILED

System Log Message	Unable to fetch boot time: <i>error-message</i>
Description	The management process (mgd) could not retrieve the system boot time from the kernel.
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CFG_AUDIT_NEW

System Log Message	User ' <i>username</i> ' action: <i>pathname new-name</i>
Description	The indicated user created a new configuration object by copying or renaming an existing object as indicated.
Type	Event: This message reports an event, not an error
Severity	info
Facility	ANY

UI_CFG_AUDIT_OTHER

System Log Message	User ' <i>username</i> ' action: <i>pathname delimitervalue</i>
Description	The indicated user deleted, activated, or deactivated a configuration object, as indicated. The Junos configuration log facility logged the change.

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

UI_CFG_AUDIT_SET

System Log Message	User ' <i>username</i> ' action: <i>pathname delimiterdata</i> -> " <i>value</i> "
Description	The indicated user set a value for a configuration object, as indicated.

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

UI_CFG_AUDIT_SET_SECRET

System Log Message	User ' <i>username</i> ' action: <i>pathname</i>
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.

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

UI_CHILD_ARGS_EXCEEDED

System Log Message	Too many arguments for child process ' <i>command</i> '
Description	The management process (mgd) invokes some commands on behalf of users. It supplied more arguments than the command's syntax statement specifies.

Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CHILD_CHANGE_USER

System Log Message	Unable to switch to local user: <i>username</i>
Description	The management process (mgd) invokes some commands on behalf of users. Its attempt to adopt the UID of the indicated user failed.

Type	Error: An error occurred
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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 ' <i>command</i> ': <i>error-message</i>
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 <i>pid</i> , status <i>return-value</i> <i>core-dump-status</i> , command ' <i>command</i> '
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 ' <i>filename</i> ': <i>error-message</i>
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

Cause An internal software failure occurred.

Action Contact your technical support representative.

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-name**core-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 <i>pid</i> , rc <i>return-value</i> , status <i>status-code</i> : <i>error-message</i>
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 ' <i>class-name</i> ' modified, affects users: <i>username</i>
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 ' <i>username</i> ' 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 ' <i>username</i> ', command ' <i>command</i> '
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 ' <i>allow-deny</i> ' command authorization regular expression ' <i>regular-expression</i> ': <i>error-message</i>
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.
Type	Error: An error occurred
Severity	error
Facility	ANY
Action	Correct any errors in the regular expression.

UI_COMMIT

System Log Message	User ' <i>username</i> ' requested ' <i>command</i> ' operation (comment: <i>message</i>)
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.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	ANY

UI_COMMIT_AT_ABORT

System Log Message	<i>reason</i> , will try again
Description	An attempt to complete a pending commit operation was cancelled for the indicated reason.
Type	Error: An error occurred
Severity	error
Facility	ANY

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

UI_COMMIT_AT_FAILED

System Log Message	<i>reason</i> , scheduled commit cleared
Description	A 'commit at' operation did not complete, for the indicated reason.
Type	Error: An error occurred
Severity	error
Facility	ANY

UI_COMMIT_COMPRESS_FAILED

System Log Message	Unable to compress file ' <i>filename</i> '
Description	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.
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	The Routing Engine is low on resources.
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_COMMIT_CONFIRMED_REMINDER

System Log Message	'commit confirmed' must be confirmed within <i>duration</i> minutes
Description	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.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	ANY

UI_COMMIT_EMPTY_CONTAINER

System Log Message	Skipped empty object ' <i>node-name</i> '
Description	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

configuration, the management process (mgd) encountered such an object that was empty but not removed.

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

UI_COMMIT_NOT_CONFIRMED

System Log Message	Commit was not confirmed; <i>message</i>
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 automatic rollback restores management access to the routing platform in case an error in the configuration blocks access.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_AUTH

UI_COMMIT_PREV_CNF_SAVED

System Log Message	Previously committed configuration saved to <i>filename</i>
Description	In case automatic rollback of unconfirmed commit fails, previously committed configuration is saved up for further inspection.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_AUTH
Cause	The cause of the problem might be recorded in messages that precede this message in the system log.

UI_COMMIT_PROGRESS

System Log Message	Commit operation in progress: <i>message</i>
Description	As it performed a commit operation, the management process (mgd) recorded its execution of the indicated step.

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

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.

Type	Error: An error occurred
Severity	error
Facility	LOG_AUTH
Cause	The cause of the problem might be recorded in messages that precede this message in the system log.

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.

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

UI_COND_GROUPS

System Log Message *message 'group-name' is reason*

Description Conditional groups may get internally effective or revoked as per specified condition

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

UI_COND_GROUPS_COMMIT

System Log Message Cond-Groups: *message*

Description Info about an attempt to complete a pending commit operation as by indicated reason.

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

Severity info

Facility ANY

UI_COND_GROUPS_COMMIT_ABORT

System Log Message Cond-Groups: *reason*

Description An attempt to complete a pending commit operation was cancelled for the indicated reason.

Type Error: An error occurred

Severity error

Facility ANY

UI_CONFIGURATION_ERROR

System Log Message Process: *process-name*, path: *pathname*, statement: *configuration-statement*, *error-message*

Description The indicated process found a problem in its configuration.

Type Error: An error occurred

Severity error

Facility ANY

UI_CONFIGURATION_WARNING

System Log Message Process: *process-name*, path: *pathname*, statement: *configuration-statement*, *warning-message*

Description The indicated process found a problem in its configuration.

Type Error: An error occurred

Severity warning

Facility ANY

UI_DAEMON_ACCEPT_FAILED

System Log Message *connection-type* socket connection accept failed: *error-message*

Description The management process (mgd) did not accept an incoming connection request.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

Cause An internal software failure occurred.

Action Contact your technical support representative.

UI_DAEMON_FORK_FAILED

System Log Message Unable to create session child: *error-message*

Description The management process (mgd) invokes the fork() system call to create a copy of itself for each CLI session. The system call failed.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

Cause An internal software failure occurred.

Action Contact your technical support representative.

UI_DAEMON_SELECT_FAILED

System Log Message select failed: *error-message*

Description The management process (mgd) uses the select() system call to listen for incoming connection requests on a socket. The system call failed.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

Cause An internal software failure occurred.

Action Contact your technical support representative.

UI_DAEMON_SOCKET_FAILED

System Log Message *connection-type* socket create failed: *error-message*

Description The management process (mgd) uses sockets to communicate with other JUNOS software processes running on the routing platform. It could not allocate a socket.

Type Error: An error occurred

Severity error

Facility LOG_AUTH

Cause System resources are exhausted.

Action Contact your technical support representative.

UI_DBASE_ACCESS_FAILED

System Log Message	Unable to reaccess configuration database file ' <i>filename</i> ', address <i>address</i> , size <i>size</i> : <i>reason</i>
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 ' <i>filename</i> ' 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 ' <i>filename</i> ' to size <i>requested-size</i> : <i>reason</i>
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 ' <i>filename</i> ': expecting <i>expected-value</i> , got <i>received-value</i>
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 ' <i>filename</i> '. If a package has just been added or deleted, please verify and commit the configuration.
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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 ' <i>filename</i> ': expecting <i>expected-value</i> x, got <i>received-value</i>
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 ' <i>filename</i> ': <i>reason</i>
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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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 <http://kb.juniper.net/InfoCenter/index?page=content&id=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.

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

Severity notice

Facility LOG_AUTH

UI_INITIALSETUP_OPERATION

System Log Message Committing EZsetup configuration as EZsetup option is chosen

Description 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.

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

Severity notice

Facility LOG_AUTH

UI_INVALID_REMOTE_PERMISSION

System Log Message invalid permissions from authorization server: *permission-name*

Description 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.

Type Error: An error occurred

Severity error

Facility ANY

UI_JUNOSCRIPT_CMD

System Log Message User '*username*' used JUNOScript client to run command '*command*'

Description The indicated user ran the indicated command using the JUNOS XML management protocol.

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

Severity info

Facility LOG_AUTH

UI_JUNOSCRIPT_ERROR

System Log Message JUNOScript error: *error-message*

Description The management process (mgd) normally sends an error message to the Junos OS CLI or JUNOScript API client in an <xnm:error> tag. It could not send the tag, so it sent the indicated error message in an XML comment instead.

Type	Error: An error occurred
Severity	warning
Facility	ANY

UI_LCC_NO_MASTER

System Log Message	No master Routing Engine defined for LCC/cc
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 ' <i>username</i> ' is performing a ' <i>operation</i> '
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 <i>pathname</i>
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 ' <i>username</i> ' login, class ' <i>class-name</i> ' <i>local-peer[pid]</i> , ssh-connection ' <i>ssh-connection</i> ', client-mode ' <i>client-mode</i> '
Description	The indicated user started a Junos OS CLI session.

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

UI_LOGOUT_EVENT

System Log Message	User ' <i>username</i> ' logout
Description	The indicated user exited from a Junos OS CLI session.

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

UI_LOST_CONN

System Log Message	Lost connection to daemon ' <i>process-name</i> '
Description	The management process (mgd) uses sockets to communicate with other Junos OS processes. The socket it was using for the indicated process closed prematurely.

Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_MASTERSHIP_EVENT

System Log Message	<i>mastership-event card-name</i> mastership by ' <i>username</i> '
Description	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.

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

UI_MOTD_PROPAGATE_ERROR

System Log Message	Unable to propagate login announcement (motd) to <i>pathname</i>
Description	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.

Type	Error: An error occurred
Severity	error
Facility	ANY

UI_NETCONF_CMD

System Log Message	User ' <i>username</i> ' used NETCONF client to run command ' <i>command</i> '
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: <i>error-message</i>
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 <i>junoscript</i> 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 <i>peer-name</i> : <i>error-message</i>
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

System Log Message	Timeout on read of peer ' <i>peer-name</i> '
Description	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.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	ANY

UI_REBOOT_EVENT

System Log Message	System <i>halt-reboot</i> by ' <i>username</i> '
Description	The indicated software process restarted as requested by the indicated user.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_AUTH

UI_RESCUE_OPERATION

System Log Message	Committing rescue configuration because CONFIG button was pressed
Description	The management process (mgd) began a commit operation to activate the rescue configuration, because the CONFIG button on the chassis was pressed.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_AUTH

UI_RESTART_EVENT

System Log Message	User ' <i>username</i> ' restarting daemon ' <i>process-name</i> ' <i>description</i>
Description	The indicated software process restarted as requested by the indicated user.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_AUTH

UI_RESTART_FAILED_EVENT

System Log Message	Failed to restart ' <i>process-name</i> '
Description	Failed to restart the indicated software process as requested by the user.
Type	Event: This message reports an event, not an error
Severity	warning
Facility	LOG_AUTH

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.
Type	Error: An error occurred
Severity	alert
Facility	ANY
Cause	The schema is out of date.
Action	None; mgd will rebuild the schema based on the current Junos version.

UI_SCHEMA_MISMATCH_MAJOR

System Log Message	Schema major version mismatch for package <i>package-name</i> (<i>expected-value</i> vs. <i>received-value</i>)
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.
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	The schema is incompatible with the installed Junos OS.
Action	None; mgd will rebuild the schema based on the current Junos version.
Cause	An internal software failure occurred.

Action Contact your technical support representative.

UI_SCHEMA_MISMATCH_SEQUENCE

System Log Message	Schema header sequence numbers mismatch for package <i>package-name</i>
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 database understands the data. The value in the database file did not match the expected value.
Type	Error: An error occurred
Severity	error
Facility	ANY
Cause	The Junos OS installation did not succeed, possibly because of an internal software error.
Action	Contact your technical support representative.

UI_SCHEMA_SEQUENCE_ERROR

System Log Message	Schema sequence number mismatch
Description	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.
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 http://kb.juniper.net/InfoCenter/index?page=content&id=KB19126 .

UI_TACPLUS_ERROR

System Log Message	TACACS+ failure: <i>error-message</i>
Description	The management process (mgd) failed to send a record to TACACS+.
Type	Error: An error occurred
Severity	notice

Facility LOG_AUTH

UI_VERSION_FAILED

System Log Message Unable to fetch system version: *error-message*

Description The management process (mgd) could not retrieve version information from the kernel.

Type Error: An error occurred

Severity error

Facility ANY

Action Contact your technical support representative.

UI_WRITE_RECONNECT

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

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

System Log Message	Error: <i>error-message</i>
Description	The connection could have failed during memory allocation or socket creation
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON

UTMD_MALLOC_FAILURE

System Log Message	Out of memory. Unable to malloc <i>error-message</i> bytes
Description	The example process (utmd) could not allocate memory for a resource possibly due to lack of memory
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB19127 .

UTMD_SSAMLIB_FAILURE

System Log Message	ssamlib call returned error : <i>error-message</i>
Description	The example process (utmd) encountered an error while calling a function or from a callback of the ssamlib library.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

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

System Log Message	Routing socket version mismatch (kernel <i>kernel-version</i> != vccpd <i>version</i>) -- kernel upgrade required
Description	The virtual chassis control protocol process (VCCPD) 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 VCCPD version.
Action	Upgrade the kernel package.

VCCPD_KNL_VERSIONNONE

System Log Message	Routing socket message type <i>message-type</i> 's version is not supported by kernel, expected <i>version</i> -- kernel upgrade required
Description	The virtual chassis control protocol process (VCCPD) 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 VCCPD version.
Action	Upgrade the kernel package.

VCCPD_KNL_VERSIONOLD

System Log Message	Routing socket message type <i>message-type</i> 's version is older than expected (<i>kernel-version</i> < <i>version</i>) -- consider upgrading the kernel
Description	The virtual chassis control protocol process (VCCPD) 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 VCCPD version.
Action	Upgrade the kernel package.

VCCPD_PROTOCOL_ADJDOWN

System Log Message	Lost adjacency to <i>neighbor-system-ids</i> on <i>interface-name</i> ,
Description	A virtual chassis adjacency with the indicated neighboring switch was terminated. The local switch no longer exchanges information with the neighboring switch.
Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_DAEMON
Cause	The communication path to the neighboring switch was disrupted, a protocol error occurred, or the neighboring switch was powered down.

VCCPD_PROTOCOL_ADJUP

System Log Message	New adjacency to <i>neighbor-system-ids</i> on <i>interface-name</i>
Description	A virtual chassis adjacency was established with the indicated neighboring switch. The local switch can now exchange information with it.
Type	Event: This message reports an event, not an error
Severity	info
Facility	LOG_DAEMON

VCCPD_PROTOCOL_LSPCKSUM

System Log Message	LSP checksum error, interface <i>interface-name</i> , LSP id <i>lspl</i> , sequence <i>sequence-number</i> , checksum <i>checksum</i> , lifetime <i>duration</i>
Description	The indicated vccpd 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 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

System Log Message	vccpd database overload
Description	The vccpd 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 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

System Log Message	<i>reason: error-message</i>
Description	A system call made by this process 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.

VM System Log Messages

This chapter describes messages with the **VM** prefix.

VM_DCF_PB_COMMUNICATION_FAILED

System Log Message	Network problems encountered during PB API call. <i>uid</i> .
Description	The communication failure happens when pb is unreachable. The pb no-longer able to communicate with the junos on dcf or vdcf
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	Either the pb node is dead or the communication between the pb and junos vms is down
Action	Perform following actions to re-establish the communication: (1) check the link both up/down between pb and junos vms. (2) check whether either of the pb nodes is up and running Once the communication is restored the requests in the queue will be processed normally.

VM_DCF_PB_INVALID_IMAGE

System Log Message	Invalid image <i>tag-name</i> for the vm request <i>device-name</i>
Description	Image requested for the vm creation to the pb is invalid. The corresponding image is not found at pb node
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	The junos image copy is not present at pb node
Action	None

VM_DCF_PB_INVALID_UUID

System Log Message	Delete request to PB failed: invalid uuid <i>uid</i>
Description	The delete request for the vm delete did not get executed as uuid is not found in the PB uuid DB.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	The vm spawned by PB in the past may have went down and this is not communicated to the parent of the node.
Action	None

VM_DCF_PB_RESOURCE_FAILURE

System Log Message	No resource to spawn new vm of the label <i>device-name</i>
Description	The request for the virtual machine (VM) create did not get executed because of the resource failure at the pb node.
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON
Cause	The pb node is running out of resources to spawn new vms. The server may be hosting vms nearing the capacity
Action	Check whether the servers on which the vms are hosted is up and running. If possible provide additional resources to meet the demand

VRRPD System Log Messages

This chapter describes messages with the **VRRPD** prefix. They are generated by the Virtual Router Redundancy Protocol (VRRP) process (`vrrpd`), which provides the user interface for management of VRRP groups.

VRRPD_ADVERT_TIME_MISMATCH

System Log Message	Packet received by <i>interface-name</i> for VRRP group <i>vrrp-group-id</i> had advertisement time <i>received-value</i> ms instead of required <i>expected-value</i> 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 <i>ip-address</i> received by interface <i>interface-name.interface-unit</i> for group <i>vrrp-group-id</i> was invalid: <i>error-message</i>
Description	The Virtual Routing Redundancy Protocol (VRRP) advertisement packet sent from the indicated IP address and received by the VRRP process (<code>vrrpd</code>) 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

Severity	error
Facility	LOG_DAEMON
Action	For more information, see KB19131 .

VRRPD_NEW_BACKUP

System Log Message	Interface <i>interface-name.interface-unit</i> (local address <i>interface-address</i>) became VRRP backup for group <i>vrrp-group-id</i>
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 <i>interface-name.interface-unit</i> (local address <i>interface-address</i>) became VRRP master for group <i>vrrp-group-id</i>
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_V3_PROTO_ERROR

System Log Message	VRRP ad packet from <i>ip-address</i> received by interface <i>interface-name.interface-unit</i> was invalid: <i>reason</i>
Description	The Virtual Routing Redundancy Protocol (VRRP) advertisement packet sent from the indicated IP address and received by the VRRP process (vrrpd) contained protocol error as specified in RFC 6527.
Type	Error: An error occurred
Severity	warning
Facility	LOG_DAEMON

VRRPD_VIP_COUNT_MISMATCH

System Log Message	Packet received by <i>interface-name</i> for VRRP group <i>vrrp-group-id</i> had <i>received-value</i> virtual IP addresses instead of required <i>expected-value</i>
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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

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 <i>username</i>)
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 <i>username</i>)
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 ' <i>filename</i> ', disabling HTTPS
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Description http-gk could not open the configured HTTPS certificate for reading.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

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.

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

WEB_COULDNT_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).

Type Error: An error occurred

Severity error

Facility LOG_DAEMON

WEB_DUPLICATE_HTTPD

System Log Message	Duplicate httpd exists, Unable to kill old httpd pid = <i>error-message</i>
Description	The Web management gatekeeper process (httpd-gk) could not kill duplicate httpd while starting the web management process (httpd).
Type	Error: An error occurred
Severity	error
Facility	LOG_DAEMON

WEB_EVENTLIB_INIT

System Log Message	Unable to initialize event library: <i>error-message</i>
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 ' <i>filename</i> ', 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: <i>error-message</i>
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
<http://kb.juniper.net/InfoCenter/index?page=content&id=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 <i>pathname: error-message</i>
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 <i>pathname: error-message</i>
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: <i>error-message</i>
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 <i>username</i> 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 <i>username</i> 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 <i>file-descriptor: error-message</i>
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

WEBFILTER System Log Messages

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

System Log Message	Failed to enable the web-filtering category cache
Description	Failed to enable the category cache for web-filtering
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_FIREWALL
Cause	Temporarily out of system memory
Action	No recommended action. For more information, see KB19136 .

WEBFILTER_INTERNAL_ERROR

System Log Message	Error encountered: <i>error-message</i>
Description	An error is encountered in a periodical task or during a server update
Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_FIREWALL
Cause	An error is encountered in a periodical task or during a server update
Action	No recommended action

WEBFILTER_REQUEST_NOT_CHECKED

System Log Message	Error encountered: server down, failed to check request <i>error-message</i>
Description	Web-filtering failed to check a web request,

Type	Event: This message reports an event, not an error
Severity	error
Facility	LOG_FIREWALL
Cause	Failed to talk to web server, temporary out of system memory or internal error
Action	No recommended action. For more information, see KB19137 .

WEBFILTER_SERVER_CONNECTED

System Log Message	Successfully connected to webfilter server <i>name</i>
Description	Client successfully connected to web server

Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_FIREWALL
Cause	Successfully connected to web server
Action	No recommended action

WEBFILTER_SERVER_DISCONNECTED

System Log Message	Webfilter: server <i>name</i> disconnected
Description	A socket error is encountered upon connecting to a web server

Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_FIREWALL
Cause	A socket error is encountered upon connecting to a web server
Action	No recommended action

WEBFILTER_SERVER_ERROR

System Log Message	WebFilter: An error is received from server <i>name</i> (0xstatus-code): <i>error-message</i>
Description	An error status is received from web server

Type	Event: This message reports an event, not an error
Severity	notice
Facility	LOG_FIREWALL
Cause	An error status is received from web server

WEBFILTER_URL_BLOCKED

System Log Message	WebFilter: ACTION="URL Blocked" <i>source-address(source-port)->destination-address(destination-port) CATEGORY="name"</i> <i>REASON="error-message" PROFILE="profile-name" URL=object-name OBJ=pathname</i>
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" <i>source-address(source-port)->destination-address(destination-port) CATEGORY="name"</i> <i>REASON="error-message" PROFILE="profile-name" URL=object-name OBJ=pathname</i>
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" <i>source-address(source-port)->destination-address(destination-port)</i> <i>REASON="error-message" PROFILE="profile-name" URL=object-name</i> <i>OBJ=pathname&response</i>
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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