

# Discard Accounting



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Juniper Networks, Inc.  
1194 North Mathilda Avenue  
Sunnyvale, California 94089  
USA  
408-745-2000  
[www.juniper.net](http://www.juniper.net)

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*Discard Accounting*

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# Table of Contents

	About the Documentation . . . . .	vii
	Documentation and Release Notes . . . . .	vii
	Supported Platforms . . . . .	vii
	Using the Examples in This Manual . . . . .	vii
	Merging a Full Example . . . . .	viii
	Merging a Snippet . . . . .	viii
	Documentation Conventions . . . . .	ix
	Documentation Feedback . . . . .	xi
	Requesting Technical Support . . . . .	xi
	Self-Help Online Tools and Resources . . . . .	xi
	Opening a Case with JTAC . . . . .	xii
<b>Part 1</b>	<b>Configuration</b>	
<b>Chapter 1</b>	<b>Configuration Task . . . . .</b>	<b>3</b>
	Configuring Discard Accounting . . . . .	3
<b>Chapter 2</b>	<b>Configuration Statements . . . . .</b>	<b>5</b>
	[edit services flow-collector] Hierarchy Level . . . . .	5
	accounting . . . . .	7
	aggregate-export-interval . . . . .	8
	aggregation . . . . .	9
	autonomous-system-type . . . . .	10
	cflowd (Discard Accounting) . . . . .	11
	engine-id (Forwarding Options) . . . . .	12
	engine-type . . . . .	13
	flow-active-timeout . . . . .	14
	flow-inactive-timeout . . . . .	15
	interface (Accounting or Sampling) . . . . .	16
	output (Accounting) . . . . .	17
	port . . . . .	18
	version . . . . .	18
	source-address (Forwarding Options) . . . . .	19
<b>Part 2</b>	<b>Index</b>	
	Index . . . . .	23



# List of Tables

<b>About the Documentation</b> .....	<b>vii</b>
Table 1: Notice Icons .....	ix
Table 2: Text and Syntax Conventions .....	ix



# About the Documentation

- Documentation and Release Notes on page vii
- Supported Platforms on page vii
- Using the Examples in This Manual on page vii
- Documentation Conventions on page ix
- Documentation Feedback on page xi
- Requesting Technical Support on page xi

## Documentation and Release Notes

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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/>.

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

Juniper Networks Books publishes books by Juniper Networks engineers and subject matter experts. These books go beyond the technical documentation to explore the nuances of network architecture, deployment, and administration. The current list can be viewed at <http://www.juniper.net/books>.

## Supported Platforms

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For the features described in this document, the following platforms are supported:

- M Series
- T Series

## Using the Examples in This Manual

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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. The example does not become active until you commit the 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.xml;
    }
  }
}
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 *CLI User Guide*.

## Documentation Conventions

Table 1 on page ix 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.
	Tip	Indicates helpful information.
	Best practice	Alerts you to a recommended use or implementation.

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

Table 2: Text and Syntax Conventions

Convention	Description	Examples
<b>Bold text like this</b>	Represents text that you type.	To enter configuration mode, type the <b>configure</b> command:  user@host> <b>configure</b>

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

Convention	Description	Examples
Fixed-width text like this	Represents output that appears on the terminal screen.	<code>user@host&gt; show chassis alarms</code> <code>No alarms currently active</code>
<i>Italic text like this</i>	<ul style="list-style-type: none"><li>Introduces or emphasizes important new terms.</li><li>Identifies guide names.</li><li>Identifies RFC and Internet draft titles.</li></ul>	<ul style="list-style-type: none"><li>A policy <i>term</i> is a named structure that defines match conditions and actions.</li><li><i>Junos OS CLI User Guide</i></li><li>RFC 1997, <i>BGP Communities Attribute</i></li></ul>
<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@# <b>set system domain-name</b> <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"><li>To configure a stub area, include the <b>stub</b> statement at the [edit protocols ospf area area-id] hierarchy level.</li><li>The console port is labeled <b>CONSOLE</b>.</li></ul>
< > (angle brackets)	Encloses optional keywords or variables.	<b>stub &lt;default-metric <i>metric</i>&gt;;</b>
(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.	<b>broadcast   multicast</b>  <b>(<i>string1</i>   <i>string2</i>   <i>string3</i>)</b>
# (pound sign)	Indicates a comment specified on the same line as the configuration statement to which it applies.	<b>rsvp { # Required for dynamic MPLS only</b>
[ ] (square brackets)	Encloses a variable for which you can substitute one or more values.	<b>community name members [ <i>community-ids</i> ]</b>
Indentation and braces ( { } )	Identifies 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.	
GUI Conventions		
Bold text like this	Represents graphical user interface (GUI) items you click or select.	<ul style="list-style-type: none"><li>In the Logical Interfaces box, select <b>All Interfaces</b>.</li><li>To cancel the configuration, click <b>Cancel</b>.</li></ul>

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

Convention	Description	Examples
> (bold right angle bracket)	Separates levels in a hierarchy of menu selections.	In the configuration editor hierarchy, select <b>Protocols&gt;Ospf</b> .

## 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](mailto: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 post-sales 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/>
- Search for known bugs: <http://www2.juniper.net/kb/>
- 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:  
<http://kb.juniper.net/InfoCenter/>
- 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, see <http://www.juniper.net/support/requesting-support.html>.

## PART 1

# Configuration

- [Configuration Task on page 3](#)
- [Configuration Statements on page 5](#)



## CHAPTER 1

# Configuration Task

- [Configuring Discard Accounting on page 3](#)

## Configuring Discard Accounting

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Discard accounting is similar to traffic sampling, but varies from it in two ways:

- In discard accounting, the packet is intercepted by the monitoring PIC and is not forwarded to its destination.
- Traffic sampling allows you to limit the number of packets sampled by configuring the **max-packets-per-second**, **rate**, and **run-length** statements. Discard accounting does not provide these options, and a high packet count can potentially overwhelm the monitoring PIC.

A discard instance is a named entity that specifies collector information under the **accounting name** statement. Discard instances are referenced in firewall filter **term** statements by including the **then discard accounting name** statement.

Most of the other statements are also found at the **[edit forwarding-options sampling]** hierarchy level. For information on cflowd, see *Enabling Flow Aggregation*. The **flow-active-timeout** and **flow-inactive-timeout** statements are described in *Configuring Flow Monitoring*.

To direct sampled traffic to a flow-monitoring interface, include the **interface** statement. The **engine-id** and **engine-type** statements specify the accounting interface used on the traffic, and the **source-address** statement specifies the traffic source.

You cannot use rate-limiting with discard accounting; however, you can specify the duration of the interval for exporting aggregated accounting information by including the **aggregate-export-interval** statement in the configuration. This enables you to put a boundary on the amount of traffic exported to a flow-monitoring interface.

### Related Documentation

- *Enabling Flow Aggregation*
- *Configuring Flow Monitoring*





## CHAPTER 2

# Configuration Statements

- [\[edit services flow-collector\] Hierarchy Level](#) on page 5
- [accounting](#) on page 7
- [aggregate-export-interval](#) on page 8
- [aggregation](#) on page 9
- [autonomous-system-type](#) on page 10
- [cflowd \(Discard Accounting\)](#) on page 11
- [engine-id \(Forwarding Options\)](#) on page 12
- [engine-type](#) on page 13
- [flow-active-timeout](#) on page 14
- [flow-inactive-timeout](#) on page 15
- [interface \(Accounting or Sampling\)](#) on page 16
- [output \(Accounting\)](#) on page 17
- [port](#) on page 18
- [version](#) on page 18
- [source-address \(Forwarding Options\)](#) on page 19

### [\[edit services flow-collector\] Hierarchy Level](#)

---

To configure flow collection, include the **flow-collector** statement at the **[edit services]** hierarchy level:

```
flow-collector {  
  analyzer-address address;  
  analyzer-id name;  
  destinations {  
    ftp:url {  
      password "password";  
    }  
    file-specification {  
      variant variant-number {  
        data-format format;  
        name-format format;  
        transfer {  
          record-level number;  
        }  
      }  
    }  
  }  
}
```

```
        timeout seconds;  
    }  
}  
interface-map {  
    collector interface-name;  
    file-specification variant-number;  
    interface-name {  
        collector interface-name;  
        file-specification variant-number;  
    }  
}  
retry number;  
retry-delay seconds;  
transfer-log-archive {  
    archive-sites {  
        ftp:url {  
            password "password";  
            username username;  
        }  
    }  
    filename-prefix prefix;  
    maximum-age minutes;  
}  
}
```

**Related  
Documentation**

- [Configuring Flow Collection](#)
- [Sending cflowd Records to Flow Collector Interfaces](#)
- [Configuring Flow Collection Mode and Interfaces on Services PICs](#)

## accounting

```
Syntax  accounting name {
        output {
            aggregate-export-interval seconds;
            cflowd hostname {
                aggregation {
                    autonomous-system;
                    destination-prefix;
                    protocol-port;
                    source-destination-prefix {
                        caida-compliant;
                    }
                    source-prefix;
                }
            }
            autonomous-system-type (origin | peer);
            port port-number;
            version format;
        }
        flow-active-timeout seconds;
        flow-inactive-timeout seconds;
        interface interface-name {
            engine-id (Forwarding Options) number;
            engine-type number;
            source-address (Forwarding Options) address;
        }
    }
```

**Hierarchy Level** [edit forwarding-options]

**Release Information** Statement introduced before Junos OS Release 7.4.

**Description** Specify the discard accounting instance name and options.

The statements are explained separately.

**Required Privilege Level** interface—To view this statement in the configuration.  
interface-control—To add this statement to the configuration.

**Related Documentation**

- [Configuring Discard Accounting on page 3](#)

## aggregate-export-interval

---

<b>Syntax</b>	<code>aggregate-export-interval <i>seconds</i>;</code>
<b>Hierarchy Level</b>	[edit forwarding-options <a href="#">accounting name output</a> ], [edit forwarding-options sampling instance <i>instance-name</i> family (inet   inet6   mpls) output], [edit forwarding-options sampling family (inet   inet6   mpls) output]
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4.
<b>Description</b>	Specify the duration, in seconds, of the interval for exporting aggregate accounting information.
<b>Options</b>	<i>seconds</i> —Duration.
<b>Required Privilege Level</b>	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.
<b>Related Documentation</b>	<ul style="list-style-type: none"><li>• <a href="#">Configuring Discard Accounting on page 3</a></li></ul>

## aggregation

<b>Syntax</b>	<pre> aggregation {   autonomous-system;   destination-prefix;   protocol-port;   source-destination-prefix {     caida-compliant;   }   source-prefix; } </pre>
<b>Hierarchy Level</b>	<p>[edit forwarding-options <a href="#">accounting output cflowd hostname</a>],</p> <p>[edit forwarding-options sampling instance <i>instance-name</i> family (inet   inet6   mpls) output flow-server <i>hostname</i>],</p> <p>[edit forwarding-options sampling family (inet   inet6   mpls) output flow-server <i>hostname</i>]</p>
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4.
<b>Description</b>	For cflowd version 8 only, specify the type of data to be aggregated; cflowd records and sends only those flows that match the specified criteria.
<b>Options</b>	<p><b>autonomous-system</b>—Aggregate by autonomous system (AS) number.</p> <p><b>caida-compliant</b>—Record source and destination mask-length values in compliance with the Version 2.1b1 release of CAIDA's cflowd application. If this statement is not configured, the Junos OS records source and destination mask length values in compliance with the <i>cflowd Configuration Guide</i>, dated August 30, 1999.</p> <p><b>destination-prefix</b>—Aggregate by destination prefix.</p> <p><b>protocol-port</b>—Aggregate by protocol and port number.</p> <p><b>source-destination-prefix</b>—Aggregate by source and destination prefix.</p> <p><b>source-prefix</b>—Aggregate by source prefix.</p>
<b>Required Privilege Level</b>	<p>interface—To view this statement in the configuration.</p> <p>interface-control—To add this statement to the configuration.</p>
<b>Related Documentation</b>	<ul style="list-style-type: none"> <li>• <i>Enabling Flow Aggregation</i></li> </ul>

## autonomous-system-type

---

<b>Syntax</b>	<code>autonomous-system-type (origin   peer);</code>
<b>Hierarchy Level</b>	[edit forwarding-options sampling instance <i>instance-name</i> family (inet  inet6  mpls) output flow-server <i>hostname</i> ], [edit forwarding-options sampling family (inet  inet6  mpls) output flow-server <i>hostname</i> ]
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4.
<b>Description</b>	Specify the type of AS numbers that cflowd exports.
<b>Default</b>	<code>origin</code>
<b>Options</b>	<b>origin</b> —Export origin AS numbers of the packet source address in the Source Autonomous System cflowd field.  <b>peer</b> —Export peer AS numbers through which the packet passed in the Source Autonomous System cflowd field.
<b>Required Privilege Level</b>	<b>interface</b> —To view this statement in the configuration. <b>interface-control</b> —To add this statement to the configuration.
<b>Related Documentation</b>	<ul style="list-style-type: none"><li>• <i>Enabling Flow Aggregation</i></li></ul>

## cflowd (Discard Accounting)

<b>Syntax</b>	<pre> cflowd <i>hostname</i> {   aggregation {     autonomous-system;     destination-prefix;     protocol-port;     source-destination-prefix {       caida-compliant;     }     source-prefix;   }   autonomous-system-type (origin   peer);   label-position {     template <i>template-name</i>;   }   (local-dump   no-local-dump);   port <i>port-number</i>;   source-address (Forwarding Options) <i>address</i>;   version <i>format</i>; } </pre>
<b>Hierarchy Level</b>	[edit forwarding-options <b>accounting</b> <i>name</i> <b>output</b> ],
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4.
<b>Description</b>	<p>Collect an aggregate of sampled flows and send the aggregate to a specified host system that runs the collection utility <code>cfcollect</code>.</p> <p>You can configure up to one version 5 and one version 8 flow format at the [edit forwarding-options <b>accounting</b> <i>name</i> <b>output</b>] hierarchy level.</p>
<b>Options</b>	<p><b>hostname</b>—The IP address or identifier of the host system (the workstation running the <code>cflowd</code> utility).</p> <p>The remaining statements are explained separately.</p>
<b>Required Privilege Level</b>	<p>interface—To view this statement in the configuration.</p> <p>interface-control—To add this statement to the configuration.</p>
<b>Related Documentation</b>	<ul style="list-style-type: none"> <li>• <i>Enabling Flow Aggregation</i></li> </ul>


## engine-id (Forwarding Options)

---



<b>Syntax</b>	<code>engine-id <i>number</i>;</code>
<b>Hierarchy Level</b>	<code>[edit forwarding-options <a href="#">accounting name</a> <a href="#">output interface interface-name</a>],</code> <code>[edit forwarding-options monitoring <i>name</i> output <a href="#">interface interface-name</a>],</code> <code>[edit forwarding-options sampling instance <i>instance-name</i> family (inet   inet6   mpls) output</code> <code><a href="#">interface interface-name</a>],</code> <code>[edit forwarding-options sampling family (inet   inet6   mpls) output <a href="#">interface interface-name</a>]</code>
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4.
<b>Description</b>	Specify the engine ID number for flow monitoring and accounting services.
<b>Options</b>	<i>number</i> —Identity of accounting interface.
<b>Required Privilege Level</b>	<code>interface</code> —To view this statement in the configuration. <code>interface-control</code> —To add this statement to the configuration.
<b>Related Documentation</b>	<ul style="list-style-type: none"><li>• <a href="#">Configuring Traffic Sampling</a></li><li>• <a href="#">Configuring Flow Monitoring</a></li><li>• <a href="#">Configuring Discard Accounting on page 3</a></li></ul>




## engine-type

<b>Syntax</b>	engine-type <i>number</i> ;
<b>Hierarchy Level</b>	[edit forwarding-options <b>accounting</b> <i>name</i> <b>output interface</b> <i>interface-name</i> ], [edit forwarding-options monitoring <i>name</i> output <b>interface</b> <i>interface-name</i> ], [edit forwarding-options sampling instance <i>instance-name</i> family (inet   inet6   mpls) output <b>interface</b> <i>interface-name</i> ], [edit forwarding-options sampling family (inet   inet6   mpls) output <b>interface</b> <i>interface-name</i> ]
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4.
<b>Description</b>	Specify the engine type number for flow monitoring and accounting services. The engine type attribute refers to the type of the flow switching engine, such as the route processor or a line module. The configured engine type is inserted in output <b>cflowd</b> packets. The <b>Source ID</b> , a 32-bit value to ensure uniqueness for all flows exported from a particular device, is the equivalent of the engine type and the engine ID fields.
<div>  <p><b>NOTE:</b> You must configure a source address in the output interface statements. The interface-level statement of engine-type is added automatically but you may override this value with manually configured statements to track different flows with a single cflowd collector.</p> </div>	
<b>Options</b>	<i>number</i> —Platform-specific accounting interface type.
<b>Required Privilege Level</b>	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.
<b>Related Documentation</b>	<ul style="list-style-type: none"> <li>• <i>Configuring Traffic Sampling</i></li> <li>• <i>Configuring Flow Monitoring</i></li> <li>• <i>Configuring Discard Accounting on page 3</i></li> </ul>

## flow-active-timeout

<b>Syntax</b>	flow-active-timeout <i>seconds</i> ;
<b>Hierarchy Level</b>	[edit forwarding-options <b>accounting</b> <i>name</i> <b>output</b> ], [edit forwarding-options monitoring <i>name</i> <b>output</b> ], [edit forwarding-options sampling instance <i>instance-name</i> family (inet  inet6  mpls) <b>output</b> ], [edit forwarding-options sampling family (inet  inet6  mpls) <b>output</b> ], [edit services flow-monitoring version9] [edit services flow-monitoringversion-ipfix template <i>template-name</i> ]
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4. Support at the [edit services flow-monitoring version-ipfix template <i>template-name</i> ] hierarchy level added in Junos OS Release 10.2.
<b>Description</b>	Set the interval after which an active flow is exported.
<div>  <b>NOTE:</b> The router must include an Adaptive Services, Multiservices, or Monitoring Services PIC for this statement to take effect.         </div>	
<b>Options</b>	<b>seconds</b> —Duration of the timeout period. <b>Range:</b> 60 through 1800 seconds (for <b>forwarding-options</b> configurations); 10 through 600 seconds (for <b>services</b> configurations) <b>Default:</b> 1800 seconds (for <b>forwarding-options</b> configurations); 60 seconds (for <b>services</b> configurations)
<div>  <b>NOTE:</b> In active flow monitoring, the cflowd or flow monitoring version 9 records are exported after a time period that is a multiple of 60 seconds and greater than or equal to the configured active timeout value. For example, if the active timeout value is 90 seconds, the cflowd or flow monitoring version 9 records are exported at 120-second intervals. If the active timeout value is 150 seconds, the cflowd or flow monitoring version 9 records are exported at 180-second intervals, and so forth.         </div>	
<b>Required Privilege Level</b>	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.
<b>Related Documentation</b>	<ul style="list-style-type: none"> <li>Configuring Time Periods when Flow Monitoring is Active and Inactive</li> <li>Configuring the Version 9 Template Properties</li> </ul>

## flow-inactive-timeout

<b>Syntax</b>	<code>flow-inactive-timeout <i>seconds</i>;</code>
<b>Hierarchy Level</b>	<p>[edit forwarding-options <b>accounting</b> <i>name</i> <b>output</b>],          [edit forwarding-options <b>monitoring</b> <i>name</i> <b>output</b>],          [edit forwarding-options sampling instance <i>instance-name</i> family (inet  inet6  mpls) <b>output</b>],          [edit forwarding-options sampling family (inet  inet6  mpls) <b>output</b>],          [edit services flow-monitoring version9]          [edit services flow-monitoringversion-ipfix template <i>template-name</i>]</p>
<b>Release Information</b>	<p>Statement introduced before Junos OS Release 7.4.          Support at the [edit services flow-monitoring version-ipfix template <i>template-name</i>] hierarchy level added in Junos OS Release 10.2.</p>
<b>Description</b>	Set the interval of inactivity that marks a flow inactive.
<div>  <p><b>NOTE:</b> The router must include an Adaptive Services, Multiservices, or Monitoring Services PIC for this statement to take effect.</p> </div>	
<b>Options</b>	<p><b><i>seconds</i></b>—Duration of the timeout period.</p> <p><b>Range:</b> 60 through 1800 seconds (for <b>forwarding-options</b> configurations); 10 through 600 seconds (for <b>services</b> configurations)</p> <p><b>Default:</b> 1800 seconds (for <b>forwarding-options</b> configurations); 60 seconds (for <b>services</b> configurations)</p>
<b>Required Privilege Level</b>	<p>interface—To view this statement in the configuration.</p> <p>interface-control—To add this statement to the configuration.</p>
<b>Related Documentation</b>	<ul style="list-style-type: none"> <li>Configuring Time Periods when Flow Monitoring is Active and Inactive</li> <li>Configuring the Version 9 Template Properties</li> </ul>

## interface (Accounting or Sampling)

---

<b>Syntax</b>	<pre>interface <i>interface-name</i> {     <i>engine-id</i> <i>number</i>;     <i>engine-type</i> <i>number</i>;     <i>source-address</i> <i>address</i>; }</pre>
<b>Hierarchy Level</b>	[edit forwarding-options <i>accounting name output</i> ], [edit forwarding-options sampling family (inet  inet6  mpls) output], [edit forwarding-options sampling instance <i>instance-name</i> family (inet  inet6  mpls) output]
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4.
<b>Description</b>	Specify the output interface for monitored traffic.
<b>Options</b>	<i>interface-name</i> —Name of the interface.  The remaining statements are explained separately.
<b>Required Privilege Level</b>	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.
<b>Related Documentation</b>	<ul style="list-style-type: none"><li>• <a href="#">Configuring Discard Accounting on page 3</a></li><li>• <a href="#">Configuring Traffic Sampling</a></li></ul>

## output (Accounting)

```
Syntax  output {
        aggregate-export-interval seconds;
        cflowd hostname {
            aggregation {
                autonomous-system;
                destination-prefix;
                protocol-port;
                source-destination-prefix {
                    caida-compliant;
                }
                source-prefix;
            }
            autonomous-system-type (origin | peer);
            (local-dump | no-local-dump);
            port port-number;
            source-address address;
            version format;
        }
        flow-active-timeout seconds;
        flow-inactive-timeout seconds;
        interface interface-name {
            engine-id number;
            engine-type number;
            source-address address;
        }
    }
```

**Hierarchy Level** [edit forwarding-options [accounting](#) *name*]

**Release Information** Statement introduced before Junos OS Release 7.4.

**Description** Configure cflowd, output interfaces, and flow properties.

The statements are explained separately.

**Required Privilege Level** interface—To view this statement in the configuration.  
interface-control—To add this statement to the configuration.

**Related Documentation**

- [Configuring Discard Accounting on page 3](#)

## port

---

<b>Syntax</b>	<code>port <i>port-number</i>;</code>
<b>Hierarchy Level</b>	[edit forwarding-options <a href="#">accounting</a> <i>name</i> <a href="#">output</a> <a href="#">cflowd</a> <i>hostname</i> ], [edit forwarding-options monitoring <i>name</i> family inet output <a href="#">cflowd</a> <i>hostname</i> ], [edit forwarding-options sampling instance <i>instance-name</i> family (inet   inet6   mpls) output flow-server <i>hostname</i> ], [edit forwarding-options sampling family (inet   inet6   mpls) output flow-server <i>hostname</i> ]
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4.
<b>Description</b>	Specify the User Datagram Protocol (UDP) port number on the cflowd host system or flow server.
<b>Options</b>	<i>port-number</i> —Any valid UDP port number on the host system.
<b>Required Privilege Level</b>	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.
<b>Related Documentation</b>	<ul style="list-style-type: none"><li>• <a href="#">Enabling Flow Aggregation</a></li></ul>

## version

---

<b>Syntax</b>	<code>version <i>format</i>;</code>
<b>Hierarchy Level</b>	[edit forwarding-options <a href="#">accounting</a> <i>name</i> <a href="#">output</a> flow-server <i>hostname</i> ], [edit forwarding-options sampling instance <i>instance-name</i> family (inet   inet6   mpls) output flow-server <i>hostname</i> ], [edit forwarding-options sampling family (inet   inet6   mpls) output flow-server <i>hostname</i> ]
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4.
<b>Description</b>	Specify the version format of the aggregated flows exported to a cflowd server.
<b>Options</b>	<i>format</i> —Format of the flows. <b>Values:</b> 5 or 8 <b>Default:</b> 5
<b>Required Privilege Level</b>	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.
<b>Related Documentation</b>	<ul style="list-style-type: none"><li>• <a href="#">export-format</a></li><li>• <a href="#">Enabling Flow Aggregation</a></li></ul>

## source-address (Forwarding Options)

<b>Syntax</b>	<code>source-address <i>address</i>;</code>
<b>Hierarchy Level</b>	<p>[edit forwarding-options <a href="#">accounting name</a> <a href="#">output</a><a href="#">interface</a> <i>interface-name</i>],</p> <p>[edit forwarding-options monitoring <i>name</i>familyfamily inet output <a href="#">interface</a> <i>interface-name</i>],</p> <p>[edit forwarding-options sampling instance <i>instance-name</i> family (inet  inet6  mpls) output <a href="#">interface</a> <i>interface-name</i>],</p> <p>[edit forwarding-options sampling family (inet  inet6  mpls) output <a href="#">interface</a> <i>interface-name</i>],</p> <p>[edit forwarding-options sampling instance <i>instance-name</i> family inet output inline-jflow]</p>
<b>Release Information</b>	Statement introduced before Junos OS Release 7.4.
<b>Description</b>	Specify the source address for monitored packets.
<b>Options</b>	<i>address</i> —Interface source address.
<b>Required Privilege Level</b>	<p>interface—To view this statement in the configuration.</p> <p>interface-control—To add this statement to the configuration.</p>
<b>Related Documentation</b>	<ul style="list-style-type: none"> <li>• <a href="#">Configuring Discard Accounting on page 3</a></li> <li>• <a href="#">Configuring Flow Monitoring</a></li> <li>• <a href="#">Configuring Traffic Sampling</a></li> </ul>





## PART 2

# Index

- [Index on page 23](#)



# Index

## Symbols

#, comments in configuration statements.....	x
( ), in syntax descriptions.....	x
< >, in syntax descriptions.....	x
[ ], in configuration statements.....	x
{ }, in configuration statements.....	x
(pipe), in syntax descriptions.....	x

## A

accounting statement	
flow monitoring.....	7
usage guidelines.....	3
aggregate-export-interval statement.....	8
usage guidelines.....	3
aggregation statement	
flow monitoring.....	9
autonomous-system-type statement.....	10

## B

braces, in configuration statements.....	x
brackets	
angle, in syntax descriptions.....	x
square, in configuration statements.....	x

## C

comments, in configuration statements.....	x
conventions	
text and syntax.....	ix
curly braces, in configuration statements.....	x
customer support.....	xi
contacting JTAC.....	xi

## D

discard accounting	
usage guidelines.....	3
documentation	
comments on.....	xi

## E

engine-id statement	
flow monitoring.....	12

engine-type statement.....	13
----------------------------	----

## F

flow-active-timeout statement.....	14
flow-inactive-timeout statement.....	15
font conventions.....	ix

## M

manuals	
comments on.....	xi

## O

output statement	
discard accounting.....	17

## P

parentheses, in syntax descriptions.....	x
port statement	
flow monitoring.....	18

## S

services statement	
flow control	
usage guidelines.....	5
source-address statement	
flow monitoring.....	19
support, technical See technical support	
syntax conventions.....	ix

## T

technical support	
contacting JTAC.....	xi

## V

version statement	
flow monitoring.....	18

