

NetFlow Aggregation

This document describes the Cisco IOS NetFlow Aggregation feature, which allows Cisco NetFlow users to summarize NetFlow export data on an IOS router before the data is exported to a NetFlow data collection system, such as the Cisco NetFlow FlowCollector. See the following sections for additional information:

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Feature Overview

By maintaining one or more extra flow caches, called *aggregation caches*, the NetFlow Aggregation feature allows limited aggregation of NetFlow data export streams to be done on a router.

Aggregation Cache Schemes

The aggregation cache schemes are described in the following sections:

- Autonomous System Aggregation Scheme on page 3
- Destination Prefix Aggregation Scheme on page 4
- Prefix Aggregation Scheme on page 5
- Protocol Port Aggregation Scheme on page 6
- Source Prefix Aggregation Scheme on page 6

The user may configure each aggregation cache with its individual cache size, cache age timeout parameter, export destination IP address, and export destination UDP port. As data flows expire in the main NetFlow cache, the flows are added to each enabled aggregation cache. Each aggregation cache contains different field combinations that determine which data flows are grouped. The default aggregation cache size is 4096.

Note To collect NetFlow version 8 data export records, use NetFlow FlowCollector version 3.0. Version 2.0 and earlier versions do not support version 8 data export record formats.

Table 1 lists definitions for the data export record terms used in each aggregation scheme.

Table 1 Data Export Record Terms and Definitions

Term	Definition
Bytes	Number of bytes in the aggregated flows.
Destination BGP Autonomous System	Peer or origin autonomous system of the destination prefix (IP address.)
Destination Interface	SNMP index of the output interface.
Destination Port	Destination UDP or TCP port number.
Destination Prefix	Destination IP address AND'd with the destination prefix mask.
First	System uptime when the first packet was switched.
Flows	Number of main cache flows that were aggregated.
Last	System uptime when the last packet was switched.
Packets	Number of packets in the aggregated flows.
PAD	Zero field.
Protocol	IP protocol byte.
Source BGP Autonomous System	Peer or origin autonomous system of the source prefix.
Source Interface	SNMP index of the input interface.
Source Port	Source UDP or TCP port number if applicable.
Source Prefix	Source IP address AND'd with the source prefix mask, or the prefix that the source IP address of the aggregated flows belong to.

Autonomous System Aggregation Scheme

The autonomous system aggregation scheme provides significant NetFlow export data volume reduction and generates autonomous system-to-autonomous system traffic flow data. The scheme groups data flows with the same source Border Gateway Protocol (BGP) autonomous system, destination BGP autonomous system, input interface, and output interface. See Figure 1.

The aggregated NetFlow data export records report the following:

- Source and destination BGP autonomous system
- Number of packets
- Number of flows summarized by the aggregated record
- Number of bytes summarized by the aggregated record
- Output and input interfaces
- Timestamp when the first packet is switched and timestamp when the last packet is switched

Figure 1 Autonomous System Aggregation Data Export Format

0	0	Flows	
4	4	Packets	
8	8	Bytes	
12	12	First time stamp	
16	16	Last time stamp	
20	20	Source AS	Destination AS
24	24	Source interface	Destination interface

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Destination Prefix Aggregation Scheme

The Destination Prefix aggregation scheme generates data so that you can examine the destinations of network traffic passing through a NetFlow-enabled device. The scheme groups data flows with the same destination prefix, destination prefix mask, destination BGP autonomous system, and output interface. See Figure 2.

The aggregated NetFlow data export records report the following:

- Destination prefix
- Destination prefix mask
- Destination BGP autonomous system
- Number of flows summarized by the aggregated record
- Number of bytes summarized by the aggregated record
- Number of packets summarized by the aggregated record
- Output interface
- Timestamp when the first packet is switched and timestamp when the last packet is switched

Figure 2 Destination Prefix Aggregation Data Export Record Format

0	0	Flows		
4	4	Packets		
8	8	Bytes		
12	12	First time stamp		
16	16	Last time stamp		
20	20	Destination prefix		
24	24	Destination mask bits	PAD	Destination AS

Prefix Aggregation Scheme

The Prefix aggregation scheme generates data so that you can examine the sources and destinations of network traffic passing through a NetFlow-enabled device. The scheme groups data flows with the same source prefix, destination prefix, source prefix mask, destination prefix mask, source BGP autonomous system, destination BGP autonomous system, input interface, and output interface. See Figure 3.

The aggregated NetFlow data export records report the following:

- Source and destination prefix
- Source and destination prefix mask
- Source and destination BGP autonomous system
- Number of flows summarized by the aggregated record
- Number of bytes summarized by the aggregated record
- Number of packets summarized by the aggregated record
- Input and output interface
- Timestamp when the first packet is switched and timestamp when the last packet is switched

Figure 3 Prefix Aggregation Data Export Record Format

0	0	Flows	
4	4	Packets	
8	8	Bytes	
12	12	First time stamp	
16	16	Last time stamp	
20	20	Source prefix	
24	24	Destination prefix	
28	28	Destination mask bits	Source mask bits
32	32	Source AS	Destination AS
36	36	Source interface	Destination interface

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Protocol Port Aggregation Scheme

The Protocol Port aggregation scheme generates data so that you can examine network usage by traffic type. The scheme groups data flows with the same IP protocol, source port number, and destination port number when applicable. See Figure 4.

The aggregated NetFlow data export records report the following:

- Source and destination port numbers
- IP protocol (where 6=TCP, 17=UDP, etc.)
- Number of flows summarized by the aggregated record
- Number of bytes summarized by the aggregated record
- Number of packets summarized by the aggregated record
- Timestamp when the first packet is switched and timestamp when the last packet is switched

Figure 4 Protocol Port Aggregation Data Export Record Format

0	0	Flows	
4	4	Packets	
8	8	Bytes	
12	12	First time stamp	
16	16	Last time stamp	
20	20	Protocol	Reserved
24	24	Source port	Destination port

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Source Prefix Aggregation Scheme

The Source Prefix aggregation scheme generates data so that you can examine the sources of network traffic passing through a NetFlow-enabled device. The scheme groups data flows with the same source prefix, source prefix mask, source BGP autonomous system, and input interface. The aggregated NetFlow data export records report the following:

- Source prefix
- Source prefix mask
- Source BGP autonomous system
- Number of bytes summarized by the aggregated record
- Number of packets summarized by the aggregated record
- Input interface

- Timestamp when the first packet is switched and timestamp when the last packet is switched

Figure 5 Source Prefix Aggregation Data Export Record Format

0	0	Flows	
4	4	Packets	
8	8	Bytes	
12	12	First time stamp	
16	16	Last time stamp	
20	20	Source prefix	
24	24	Source mask bits	Source AS
28	28	Source interface	Reserved

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Aggregation Scheme Fields and Key Fields

To coordinate flow aggregation on your router, determine the fields from which you want to collect data. Table 2 shows which fields are valid for the different aggregation schemes and which fields are part of the keys. Key fields define a unique flow.

Table 2 Aggregation Scheme Data Fields

Data Fields	Aggregation Schemes				
	Autonomous System	Destination Prefix	Prefix	Protocol Port	Source Prefix
Source Prefix					
Destination Prefix					
Protocol				*	
Type of Service Byte					
Source Port				*	
Destination Port				*	
Source Interface	*		*		*
Destination Interface	*	*	*		
OR'd TCP Flags					
Source BGP Autonomous System	*		*		*
Destination BGP Autonomous System	*	*	*		
Source Prefix Mask			*		*
Destination Prefix Mask		*	*		
Next Hop IP Adress					
Source Encap Bytes					
Destination Encap Bytes					
Source Prefix			*		*
Destination Prefix		*	*		
First Timestamp	x	x	x	x	x
Last Timestamp	x	x	x	x	x
Flows	x	x	x	x	x
Packets	x	x	x	x	x
Bytes	x	x	x	x	x

* = exported key field

x = exported field

New Version 8 NetFlow Data Export Support

NetFlow exports flow information in UDP datagrams in one of several formats. Version 8, a new data export version, has been added to support data exports from aggregation caches. Version 8 allows for export datagrams to contain a subset of the usual version 5 export data, which is valid for a particular aggregations scheme type.

Figure 6 shows the version 8 header with the version and timestamp information. Table 3 lists definitions for terms used in the version 8 header.

Figure 6 **Version 8 Header Format**

0	Version		Count	
4	System uptime			
8	UNIX seconds			
12	UNIX nanoseconds			
16	Sequence number			
20	Engine type	Engine ID	Aggregation	Aggregation version
24	Reserved			

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Table 3 **Terms and Definitions for Version 8 Headers**

Term	Definition
Version	The flow export format version number. In this case, the number is “8.”
Count	The number of export records in the datagram.
System Uptime	The number of milliseconds since the router was last booted.
UNIX Seconds	The number of seconds since 0000 Universal Time Code (UTC) 1970.
UNIX Nanoseconds	The number of residual nanoseconds since 0000UTC 1970.
Sequence Number	Sequence counter of total flows sent for this export stream.
Engine Type	The type of switching engine. RP=0 and LC=1.
Engine ID	The slot number of the NetFlow switching engine.
Aggregation	The type of aggregation scheme being used.
Aggregation Version	The aggregation subformat version number. The current value is “2”.

Benefits

Reduced Bandwidth Requirements

NetFlow aggregation caches reduce the bandwidth required between routers and NetFlow management workstations.

Reduced NetFlow Workstation Requirements

NetFlow aggregation caches reduce the number of NetFlow management workstations required.

Improved Router Scalability

NetFlow aggregation caches improve the scalability of high-flow-per-second routers, such as the 7500 series.

Restrictions

To collect NetFlow version 8 data export records, use NetFlow FlowCollector version 3.0. Version 2.0 and earlier versions do not support version 8 data export record formats.

Related Features and Technologies

- Cisco's NetFlow FlowCollector version 3.0

Related Documents

- *Cisco NetFlow FlowCollector v3.0 Installation and User's Guide*
- *Cisco IOS Release 12.0 Switching Services Configuration Guide*
- *Cisco IOS Release 12.0 Switching Services Command Reference*
- *Cisco NetFlow Services Q&A*
- *Cisco NetFlow White Paper*

Supported Platforms

This feature is supported on these platforms:

- Cisco 7500 series
- Cisco 7200 series
- Cisco uBR7200
- Cisco MGX Route Switch Processor (RSP) 8800
- Cisco Route Switch Module (RSM) for the Catalyst 5000 series
- Cisco RSP 7000
- Cisco Access Server 5800
- Cisco 4700
- Cisco 4500
- Cisco 3600
- Cisco 2600
- Cisco 1720

Supported Standards, MIBs, and RFCs

MIBs

- No new or modified MIBs are supported by this feature.

For descriptions of supported MIBs and how to use MIBs, see the Cisco MIB web site on CCO at <http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>.

RFCs

None

Standards

None

Prerequisites

You must take these prerequisites into consideration before configuring the NetFlow Aggregation feature:

- Ensure that the following functionality is configured on your system before you configure an aggregation cache:
 - IP routing
For information on IP routing configuration, refer to the Cisco IOS Release 12.0 *Network Protocols Configuration Guide, Part 1*.
 - Cisco Express Forwarding (CEF)
For information on CEF configuration, refer to the Cisco IOS Release 12.0 *Switching Services Configuration Guide*.
 - NetFlow switching
For information on NetFlow configuration, refer to the Cisco IOS Release 12.0 *Switching Services Configuration Guide* and the
- If you intend to use a version 8 aggregation cache, configure a version 5 main cache.
- If you need autonomous system information from the aggregation, make sure to specify the <peer-as | origin-as> options in your **export** command if you have not configured an export version.

Configuration Tasks

See the following sections for configuration tasks for the Cisco IOS NetFlow Aggregation feature:

- Configuring an Aggregation Cache (Required)
- Verifying Aggregation Cache Configuration and Data Export (Optional)

Configuring an Aggregation Cache

To configure an aggregation cache, you must enter aggregation cache configuration mode, and you must decide which type of aggregation scheme you would like to configure: autonomous system, Destination Prefix, Prefix, Protocol Prefix, or Source Prefix aggregation cache. Once you define the aggregation scheme, define the operational parameters for that scheme.

Step	Command	Purpose
1	Router(config)# ip flow-aggregation cache as	Enters aggregation cache configuration mode and enables an aggregation cache scheme (as, destination-prefix, prefix, protocol-port, or source-prefix)
2	Router(config-flow-cache)# cache entries 2046	Specifies the number (in this example, 2046) of cache entries to allocate for the autonomous system aggregation cache.
3	Router(config-flow-cache)# cache timeout inactive 199	Specifies the number of seconds (in this example, 199) that an inactive entry is allowed to remain in the aggregation cache before it is deleted.
4	Router(config-flow-cache)# cache timeout active 45	Specifies the number of minutes (in this example, 45) that an active entry is active.
5	Router(config-flow-cache)# export destination 10.42.41.1 9991	Enables the data export.
6	Router(config-flow-cache)# enabled	Enables aggregation cache creation.

Verifying Aggregation Cache Configuration and Data Export

To verify that the configuration is correct, use the **show ip cache flow aggregation** command.

To confirm data export, use the **show ip flow export** command.

Monitoring and Maintaining NetFlow Aggregation Schemes

To monitor and maintain aggregation schemes, use the **show ip cache flow aggregation** command.

To monitor and maintain aggregation schemes data export, use the **show ip flow export** command.

Configuration Examples

This section provides the following basic configuration examples:

- Autonomous System Configuration on page 13
- Destination Prefix Configuration on page 13
- Prefix Configuration on page 13
- Protocol Port Configuration on page 13
- Source Prefix Configuration on page 14

Autonomous System Configuration

The following example shows how to configure an autonomous system aggregation cache with a cache size of 2046, an inactive timeout of 200 seconds, a cache active timeout of 45 minutes, an export destination IP address of 10.42.42.1, and a destination port of 9992.

```
Router(config)# ip flow-aggregation cache as
Router(config-flow-cache)# cache entries 2046
Router(config-flow-cache)# cache timeout inactive 200
Router(config-flow-cache)# cache timeout active 45
Router(config-flow-cache)# export destination 10.42.42.1 9992
Router(config-flow-cache)# enabled
```

Destination Prefix Configuration

The following example shows how to configure a Destination Prefix aggregation cache with a cache size of 2046, an inactive timeout of 200 seconds, a cache active timeout of 45 minutes, an export destination IP address of 10.42.42.1, and a destination port of 9992.

```
Router(config)# ip flow-aggregation cache destination-prefix
Router(config-flow-cache)# cache entries 2046
Router(config-flow-cache)# cache timeout inactive 200
Router(config-flow-cache)# cache timeout active 45
Router(config-flow-cache)# export destination 10.42.42.1 9992
Router(config-flow-cache)# enabled
```

Prefix Configuration

The following example shows how to configure a Prefix aggregation cache with a cache size of 2046, an inactive timeout of 200 seconds, a cache active timeout of 45 minutes, an export destination IP address of 10.42.42.1, and a destination port of 9992.

```
Router(config)# ip flow-aggregation cache prefix
Router(config-flow-cache)# cache entries 2046
Router(config-flow-cache)# cache timeout inactive 200
Router(config-flow-cache)# cache timeout active 45
Router(config-flow-cache)# export destination 10.42.42.1 9992
Router(config-flow-cache)# enabled
```

Protocol Port Configuration

The following example shows how to configure a Protocol Port aggregation cache with a cache size of 2046, an inactive timeout of 200 seconds, a cache active timeout of 45 minutes, an export destination IP address of 10.42.42.1, and a destination port of 9992.

```
Router(config)# ip flow-aggregation cache protocol-port
Router(config-flow-cache)# cache entries 2046
Router(config-flow-cache)# cache timeout inactive 200
Router(config-flow-cache)# cache timeout active 45
Router(config-flow-cache)# export destination 10.42.42.1 9992
Router(config-flow-cache)# enabled
```

Source Prefix Configuration

The following example shows how to configure a Source Prefix aggregation cache with a cache size of 2046, an inactive timeout of 200 seconds, a cache active timeout of 45 minutes, an export destination IP address of 10.42.42.1, and a destination port of 9992.

```
Router(config)# ip flow-aggregation cache source-prefix
Router(config-flow-cache)# cache entries 2046
Router(config-flow-cache)# cache timeout inactive 200
Router(config-flow-cache)# cache timeout active 45
Router(config-flow-cache)# export destination 10.42.42.1 9992
Router(config-flow-cache)# enabled
```

Command Reference

This section documents new commands you can use to configure the Cisco IOS NetFlow Aggregation feature. All other commands used with this feature are documented in the Cisco IOS Release 12.0 Switching Services command reference publication.

- **cache**
- **default**
- **enabled**
- **exit**
- **export destination**
- **ip flow-aggregation cache**
- **show ip cache flow aggregation**
- **show ip flow export**

In Cisco IOS Release 12.0(1)T or later, you can search and filter the output for **show** and **more** commands. This functionality is useful when you need to sort through large amounts of output, or if you want to exclude output that you do not need to see.

To use this functionality, enter a **show** or **more** command followed by the “pipe” character (|), one of the keywords **begin**, **include**, or **exclude**, and an expression that you want to search or filter on:

```
command | {begin | include | exclude} regular-expression
```

Following is an example of the **show atm vc** command in which you want the command output to begin with the first line where the expression “PeakRate” appears:

```
show atm vc | begin PeakRate
```

For more information on the search and filter functionality, refer to the Cisco IOS Release 12.0(1)T feature module titled *CLI String Search*.

cache

To configure aggregation cache operational parameters, use the **cache** aggregation cache configuration command.

To disable the operational parameters, use the **no** form of this command.

```
cache {entries number | timeout [active minutes | inactive seconds]}
no cache {entries number | timeout [active minutes | inactive seconds]}
```

Syntax Description

entries <i>number</i>	(Optional) The number of cached entries allowed in the aggregation cache. The number of entries can be 1024 to 524288. The default is 4096.
active <i>minutes</i>	(Optional) The number of minutes that an active entry is active. The default is 30 minutes; the range is between 1 and 60 minutes.
inactive <i>seconds</i>	(Optional) The number of seconds that an inactive entry will stay in the aggregation cache before it times out. The default is 15 seconds; the range is between 10 and 600 seconds.

Defaults

The default for cache entries is 4096.

The default for active cache entries is 30 minutes.

The default for inactive cache entries is 15 seconds.

Command Modes

Aggregation cache configuration

Command History

Release	Modification
12.0(3)T	This command was introduced.

Examples

The following example shows how to set the aggregation cache entry limits:

```
cache entries 2046
cache timeout inactive 199
```

Related Commands

Command	Description
enabled	Enables an aggregation cache.
export destination	Enables aggregation cache export.
ip flow-aggregation cache	Enables aggregation cache configuration mode.
show ip cache flow aggregation	Displays aggregation cache contents.
show ip flow export	Displays data export statistics.

default

To enable a default aggregation cache, use the **default** interface configuration command.

```
default [cache | enabled | export]
```

Related Commands

Syntax Description

cache	Configure NetFlow cache parameters.
enabled	Enable the aggregation cache.
export	Specify host/port to send flow statistics.

Defaults

No default behavior or values.

Command Modes

Aggregation cache configuration

Command History

Release	Modification
12.0(3)T	This command was introduced.

Examples

The following example shows how to use the **default** command:

```
ip flow-aggregation cache as
default enabled
```

Related Commands

Command	Description
cache	Configures aggregation cache operational parameters.
enabled	Enables an aggregation cache.
export destination	Enables aggregation cache export.
ip flow-aggregation cache	Enables aggregation cache configuration mode.
show ip flow export	Displays data export statistics

enabled

To enable an aggregation cache, use the **enabled** interface configuration command.

```
enabled
```

Syntax Description

This command has no keywords and arguments.

Defaults

No default behavior or values.

Command Modes

Aggregation cache configuration

Command History

Release	Modification
12.0(3)T	This command was introduced.

Examples

The following example shows how to use the **enabled** command:

```
enabled
```

Related Commands

Command	Description
cache	Configures aggregation cache operational parameters.
export destination	Enables aggregation cache export.
ip flow-aggregation cache	Enables aggregation cache configuration mode.
show ip flow export	Displays data export statistics

exit

To leave aggregation cache mode, use the **exit** aggregation cache configuration command.

```
exit
```

Syntax Description

This command has no keywords and arguments.

Defaults

No default behavior or values.

Command Modes

Aggregation cache configuration

export destination

Command History

Release	Modification
12.0(3)T	This command was introduced.

Examples

The following example shows how to use the **exit** command:

```
exit
```

Related Commands

Command	Description
cache	Configures aggregation cache operational parameters.
enabled	Enables an aggregation cache.
export destination	Enables aggregation cache export.
ip flow-aggregation cache	Enables aggregation cache configuration mode.
show ip flow export	Displays data export statistics

export destination

To enable the exporting of information from NetFlow aggregation caches, use the **export destination** aggregation cache configuration command.

To disable the exporting of NetFlow aggregation cache information, use the **no** form of this command.

```
export destination ip-address port  
no export destination ip-address port
```

Syntax Description

<i>ip-address</i>	Destination IP address.
<i>port</i>	Destination UDP port.

Defaults

An export destination is not set.

Command Modes

Aggregation cache configuration

Command History

Release	Modification
12.0(3)T	This command was introduced.

Usage Guidelines

For version 8 data exports, the maximum number of aggregated flow records and the maximum byte size of each UDP datagram are as follows:

Aggregation Scheme	Max. Number of Flow Records	UDP Packet Size
BGP Autonomous System	51	1456 bytes
Destination Prefix	44	1436 bytes
Prefix	35	1428 bytes
Protocol Port	51	1456 bytes
Source Prefix	44	1436 bytes

Examples

The following example shows how to configure an export destination for an aggregation cache:

```
export destination 10.41.41.1 9992
```

Related Commands

Command	Description
cache	Configures aggregation cache operational parameters.
enabled	Enables an aggregation cache.
ip flow-aggregation cache	Enables aggregation cache configuration mode.
show ip cache flow aggregation	Displays aggregation cache contents.
show ip flow export	Displays data export statistics

ip flow-aggregation cache

To enable aggregation cache configuration mode, use the **ip flow-aggregation cache** global configuration command.

To disable aggregation cache configuration mode, use the **no** form of this command.

```
ip flow-aggregation cache {as | destination-prefix | prefix | protocol-port | source-prefix}
no ip flow-aggregation cache {as | destination-prefix | prefix | protocol-port | source-prefix}
```

Syntax Description

as	Configures the autonomous system aggregation cache scheme.
destination-prefix	Configures the Destination Prefix aggregation cache scheme.
prefix	Configures the Prefix aggregation cache scheme.
protocol-port	Configures the Protocol Port aggregation cache scheme.
source-prefix	Configures the Source Prefix aggregation cache scheme.

Defaults

This command is not enabled by default.

Command Modes

Global configuration

Command History

Release	Modification
12.0(3)T	This command was introduced.

Examples

The following example shows how to enable an autonomous system aggregation scheme:

```
ip flow-aggregation cache as
enable
```

Related Commands

Command	Description
cache	Configures aggregation cache operational parameters.
enabled	Enables an aggregation cache.
export destination	Enables aggregation cache export.
show ip cache flow aggregation	Displays aggregation cache contents.

show ip cache flow aggregation

To display the aggregation cache configuration, use the **show ip cache flow aggregation EXEC** command.

```
show ip cache flow aggregation type
```

Syntax Description

type Displays a particular aggregation cache's configuration: autonomous system, destination prefix, prefix, protocol-port, or source prefix.

Defaults

No default behavior or values.

Command Modes

EXEC

Command History

Release	Modification
12.0(3)T	This command was introduced.

Usage Guidelines

Examples

The following example shows how to use the **show ip cache flow aggregation** command:

```

show ip cache flow aggregation as
IP Flow Switching Cache, 278544 bytes
  2 active, 4094 inactive, 13 added
  178 ager polls, 0 flow alloc failures

Src If      Src AS  Dst If      Dst AS  Flows  Pkts  B/Pk  Active
Fa1/0       0      Null        0        1      2     49    10.2
Fa1/0       0      Se2/0       20       1      5    100    0.0
  
```

Related Commands

Command	Description
cache	Configures aggregation cache operational parameters.
enabled	Enables an aggregation cache.
export destination	Enables aggregation cache export.
ip flow-aggregation cache	Enables aggregation cache configuration mode.
show ip flow export	Displays data export statistics.

show ip flow export

To display the statistics for the data export including the main cache and all other enabled caches, use the **show ip flow export EXEC** command.

show ip flow export

Syntax Description

This command has no keywords and arguments.

Defaults

No default behavior or values.

Command Modes

EXEC

Command History

Release	Modification
11.1CC	This command was introduced.

Examples

The following example shows how to use the **show ip flow export** command:

```
show ip flow export
Flow export is enabled
Exporting flows to 203.20.40.1 (9991)
Version 5 flow records, peer-as
1136 flows exported in 917 udp datagrams
 0 flows exported in 0 udp datagrams
 0 flows failed due to lack of export packet
 0 export packets were sent up to process level
 0 export packets were dropped due to no fib
 0 export packets were dropped due to adjacency issues
 0 export packets were dropped enqueueing for the RP
 0 export packets were dropped due to IPC rate limiting
```

Related Commands

Command	Description
cache	Configures aggregation cache operational parameters.
export destination	Enables aggregation cache export.
ip flow-aggregation cache	Enables aggregation cache configuration mode.

