Flexible NetFlow NetFlow V5 Export Protocol


Support for this feature was added for Cisco 7200 and 7300 Network Processing Engine (NPE) series routers in Cisco IOS Release 12.2(33)SRE.

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Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see Bug Search Tool and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Restrictions for Flexible NetFlow NetFlow V5 Export Protocol

- The NetFlow Version 5 export protocol that was first shipped in Cisco IOS Release 12.4(22)T is supported for flow monitors that use only the following Flexible NetFlow predefined records: netflow-original, original input, and original output.
Information about Flexible NetFlow NetFlow V5 Export Protocol

Flexible NetFlow V5 Export Protocol Overview

This feature enables sending export packets using the Version 5 export protocol.

How to Configure Flexible NetFlow NetFlow V5 Export Protocol

Configuring the Flow Exporter

Perform this required task to configure the flow exporter.

Note
Each flow exporter supports only one destination.
You can export to a destination using either an IPv4 or IPv6 address.

SUMMARY STEPS

1. enable
2. configure terminal
3. flow exporter exporter-name
4. description description
5. destination {ip-address | hostname} [vrf vrf-name]
6. dscp dscp
7. source interface-type interface-number
8. output-features
9. template data timeout seconds
10. transport udp udp-port
11. ttl seconds
12. end
13. show flow exporter exporter-name
14. show running-config flow exporter exporter-name

DETAILED STEPS

<table>
<thead>
<tr>
<th>Command or Action</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1 enable</td>
<td>Enables privileged EXEC mode.</td>
</tr>
<tr>
<td>Command or Action</td>
<td>Purpose</td>
</tr>
<tr>
<td>-------------------</td>
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</tr>
</tbody>
</table>
| **Example:**
  Device> enable | • Enter your password if prompted. |
| **Step 2**
  **configure terminal** | Enters global configuration mode. |
| **Example:**
  Device# configure terminal | |
| **Step 3**
  **flow exporter** **exporter-name** | Creates the flow exporter and enters Flexible NetFlow flow exporter configuration mode. |
| **Example:**
  Device(config)# flow exporter EXPORTER-1 | • This command also allows you to modify an existing flow exporter. |
| **Step 4**
  **description** **description** | (Optional) Configures a description to the exporter that will appear in the configuration and the display of the `show flow exporter` command. |
| **Example:**
  Device(config-flow-exporter)# description Exports to the datacenter | |
| **Step 5**
  **destination** `{ip-address | hostname} [vrf vrf-name]` | Specifies the IP address or hostname of the destination system for the exporter. |
| **Example:**
  Device(config-flow-exporter)# destination 172.16.10.2 | **Note** You can export to a destination using either an IPv4 or IPv6 address. |
| **Step 6**
  **dscp** **dscp** | (Optional) Configures differentiated services code point (DSCP) parameters for datagrams sent by the exporter. |
| **Example:**
  Device(config-flow-exporter)# dscp 63 | • The range for the `dscp` argument is from 0 to 63. Default: 0. |
| **Step 7**
  **source** **interface-type** **interface-number** | (Optional) Specifies the local interface from which the exporter will use the IP address as the source IP address for exported datagrams. |
| **Example:**
  Device(config-flow-exporter)# source ethernet 0/0 | |
| **Step 8**
  **output-features** | (Optional) Enables sending export packets using quality of service (QoS) and encryption. |
| **Example:**
  Device(config-flow-exporter)# output-features | |
| **Step 9**
  **template** **data** **timeout** **seconds** | (Optional) Configures resending of templates based on a timeout. |
### Command or Action

- **Example:**
  ```
  Device(config-flow-exporter)# template data timeout 120
  ```

  **Purpose:**
  - The range for the `seconds` argument is 1 to 86400 (86400 seconds = 24 hours).

### Step 10

- **transport udp udp-port**

  **Example:**
  ```
  Device(config-flow-exporter)# transport udp 650
  ```

  **Purpose:**
  - Specifies the UDP port on which the destination system is listening for exported datagrams.

  - The range for the `udp-port` argument is from 1 to 65536.

### Step 11

- **ttl seconds**

  **Example:**
  ```
  Device(config-flow-exporter)# ttl 15
  ```

  **Purpose:**
  - (Optional) Configures the time-to-live (TTL) value for datagrams sent by the exporter.

  - The range for the `seconds` argument is from 1 to 255.

### Step 12

- **end**

  **Example:**
  ```
  Device(config-flow-exporter)# end
  ```

  **Purpose:**
  - Exits flow exporter configuration mode and returns to privileged EXEC mode.

### Step 13

- **show flow exporter exporter-name**

  **Example:**
  ```
  Device# show flow exporter FLOW_EXPORTER-1
  ```

  **Purpose:**
  - (Optional) Displays the current status of the specified flow exporter.

### Step 14

- **show running-config flow exporter exporter-name**

  **Example:**
  ```
  Device# show running-config flow exporter FLOW_EXPORTER-1
  ```

  **Purpose:**
  - (Optional) Displays the configuration of the specified flow exporter.

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### Configuration Examples for Flexible NetFlow NetFlow V5 Export Protocol

#### Example: Configuring Version 5 Export

The following example shows how to configure version 5 export for Flexible NetFlow.
This sample starts in global configuration mode:

```network
flow exporter EXPORTER-1
destination 172.16.10.2
eexport-protocol netflow-v5
transport udp 90
exit
!
flow monitor FLOW-MONITOR-1
record netflow ipv4 original-input
exporter EXPORTER-1
!
ip cef
!
interface Ethernet 0/0
ip address 172.16.6.2 255.255.255.0
ip flow monitor FLOW-MONITOR-1 input
```

**Additional References**

**Related Documents**

<table>
<thead>
<tr>
<th>Related Topic</th>
<th>Document Title</th>
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</thead>
<tbody>
<tr>
<td>Cisco IOS commands</td>
<td>Cisco IOS Master Command List, All Releases</td>
</tr>
<tr>
<td>Flexible NetFlow conceptual information and configuration tasks</td>
<td>Flexible NetFlow Configuration Guide</td>
</tr>
<tr>
<td>Flexible NetFlow commands</td>
<td>Cisco IOS Flexible NetFlow Command Reference</td>
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**Standards/RFCs**

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<th>Standard</th>
<th>Title</th>
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<td>No new or modified standards/RFCs are supported by this feature.</td>
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**MIBs**

<table>
<thead>
<tr>
<th>MIB</th>
<th>MIBs Link</th>
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<tbody>
<tr>
<td>None</td>
<td>To locate and download MIBs for selected platforms, Cisco software releases, and feature sets, use Cisco MIB Locator found at the following URL: <a href="http://www.cisco.com/go/mibs">http://www.cisco.com/go/mibs</a></td>
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Technical Assistance

<table>
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<tr>
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<th>Link</th>
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<tbody>
<tr>
<td>The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.</td>
<td><a href="http://www.cisco.com/cisco/web/support/index.html">http://www.cisco.com/cisco/web/support/index.html</a></td>
</tr>
</tbody>
</table>

Feature Information for Flexible NetFlow NetFlow V5 Export Protocol

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Table 1: Feature Information for Flexible NetFlow NetFlow V5 Export Protocol

<table>
<thead>
<tr>
<th>Feature Name</th>
<th>Releases</th>
<th>Feature Information</th>
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<tbody>
<tr>
<td>Flexible NetFlow--NetFlow V5 Export Protocol</td>
<td>12.2(33)SRE</td>
<td>Enables sending export packets using the Version 5 export protocol. Support for this feature was added for Cisco 7200 and 7300 Network Processing Engine (NPE) series routers in Cisco IOS Release 12.2(33)SRE. The following command was introduced: export-protocol.</td>
</tr>
<tr>
<td></td>
<td>12.2(50)SY</td>
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<tr>
<td></td>
<td>12.4(22)T</td>
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<tr>
<td></td>
<td>15.0(1)SY</td>
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<td>15.0(1)SY1</td>
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<td></td>
<td>Cisco IOS XE Release 3.1S</td>
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