



Flexible NetFlow – Full Flow support

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The Flexible NetFlow - Full Flow support feature enables Flexible NetFlow to collect flow records for every packet.

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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 at the end of this module.

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 - Full Flow Support

- The Microflow Policing feature shares the NetFlow hardware resource with Flexible NetFlow.
- One flow monitor per interface, per direction, is supported.
- Layer 2, IPv4 and IPv6 traffic types are supported. However, a flow monitor can be applied to only one of these types at a time for a given direction and interface.
- Layer 2, VLAN, and Layer 3 interfaces are supported. Switched virtual interfaces and tunnels are not supported.
- The Ingress and Egress NetFlow tables do not support LAN base license level.
- The Ingress NetFlow table supports an IP base license level of 8K on a per Application Specific Integrated Circuit (ASIC) basis.



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- The Egress NetFlow table supports an IP base license level of 16K on a per ASIC basis.
- The Ingress NetFlow table supports an IP services license level of 8K on a per ASIC basis.
- The Egress NetFlow table supports an IP services license level of 16K on a per ASIC basis.
- Depending on the switch type, Cisco Catalyst 3850 Series Switches have one or two forwarding ASICs.
- The Cisco 5700 Wireless Controller supports three ASICs.
- The NetFlow tables are on separate compartments and cannot be combined. Depending on which ASIC processed the packet, the flows will be created in the table in the corresponding ASIC.
- Only full flow accounting is supported for wireless traffic.
- For information about the fields supported by Flexible NetFlow, refer to the *Cisco IOS Flexible NetFlow Command Reference*.
- NetFlow hardware uses hash tables internally. It is possible that hash collisions happen in the hardware. So, in spite of the internal overflow CAM, the actual NetFlow table utilization could be about 80%.
- Depending on what fields are used for the flow, a single flow could take two consecutive entries. Also, IPv6 flows take two entries. So, for these cases, the effective usage of NetFlow entries is half the table size. This is apart from the hash collision limitation.
- Up to 16 flow monitors are supported. Microflow policing uses a separate set of flow monitors.
- Service Set Identifier (SSID)-based NetFlow accounting is supported. SSID is treated like an interface. However, fields like AP MAC address and user ID are not supported.
- The NetFlow software supports distributed NetFlow export, so the flows are exported from the same switch in which the flow was created.
- Ingress flows are present in the ASIC that first received the packets for the flow. Egress flows are present in the ASIC from which the packets actually left the switch setup.
- The reported value for the bytes count field (IN_BYTES) is (layer-2-packet-size - 18 bytes). For classic Ethernet traffic, this will be accurate. For all other Ethernet types, this field will not be accurate. Please use the “bytes Layer 2” field which will always report the accurate layer 2 packet size.

Information About Flexible NetFlow Full Flow support

- [Flexible NetFlow – Full Flow support Overview](#) , page 2

Flexible NetFlow – Full Flow support Overview

The Flexible NetFlow – Full Flow support feature enables Flexible NetFlow to collect flow records for every packet.

The feature is enabled by applying a flow monitor in input (ingress) and output (egress) mode on the device.

If you configure a Flexible NetFlow exporter for the flow monitors you use for the Flexible NetFlow – Full Flow support feature, the device will export the captured flows to the configured collector devices in the provider network.

How to Configure Flexible NetFlow Full Flow Support

Configuration Examples for Flexible NetFlow Full Flow Support

Additional References

Related Documents

Related Topic	Document Title
Cisco IOS commands	<i>Cisco IOS Master Command List, All Releases</i>
Flexible NetFlow conceptual information and configuration tasks	<i>Flexible NetFlow Configuration Guide</i>
Flexible NetFlow commands	<i>Cisco IOS Flexible NetFlow Command Reference</i>

Standards/RFCs

Standard	Title
No new or modified standards/RFCs are supported by this feature.	—

MIBs

MIB	MIBs Link
None	To locate and download MIBs for selected platforms, Cisco software releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
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.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for Flexible NetFlow—Full Flow support

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.

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Table 1 *Feature Information for Flexible NetFlow—Full Flow support*

Feature Name	Releases	Feature Information
Flexible NetFlow—Full Flow support	Cisco IOS XE Release 3.1S Cisco IOS XE Release 3.2SE	The Flexible NetFlow—Full Flow support feature enables Flexible NetFlow to collect flow records for every packet. No commands were introduced or modified by this feature.

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