



# Flexible NetFlow Exporter on Embedded Wireless Controller

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## Flexible NetFlow Exporter on Embedded Wireless Controller

Flexible Netflow (FnF) Exporter on Embedded Wireless Controller (EWC) is supported from Cisco IOS XE Amsterdam 17.2.1 onwards.

NetFlow is a Cisco IOS technology that provides statistics on packets flowing on the network. NetFlow is the standard for acquiring IP operational data from IP networks. NetFlow provides data to support network and security monitoring, network planning, traffic analysis, and IP accounting.

Flexible NetFlow improves on original NetFlow by adding the capability to customize the traffic analysis parameters for your specific requirements. Flexible NetFlow facilitates the creation of more complex configurations for traffic analysis and data export through the use of reusable configuration components.

FnF Exporter in EWC is supported only in the flex mode.

This feature is part of the AVC solution in EWC. For more information about AVC, refer to the *Application Visibility and Control* chapter.

## AVC Configuration Limitations on EWC

- Only one local exporter (statistics collector on EWC) is supported.
- FnF supports only one per IP-type and direction in Flex mode, for Flow Monitor.
- Support of only UDP transport protocol.
- AVC cache is not supported.
- The **option** command and the command related to DP statistics are not supported on EWC.
- Support of only Wireless AVC Basic template.

- Support for only Netflow Version 9.
- IP address 0.0.0.0 is a valid destination address. However, if you use it, the Flexible NetFlow data will be discarded and not collected by any collector.

## Create a Flow Exporter

The following procedure shows how to create a flow exporter in EWC:

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> Device# <code>configure terminal</code>	Enters global configuration mode.
<b>Step 2</b>	<b>flow exporter</b> <i>flow-export-name</i>  <b>Example:</b> Device(config)# <code>flow exporter export-test</code>	Creates a flow exporter.
<b>Step 3</b>	<b>description</b> <i>string</i>  <b>Example:</b> Device(config-flow-exporter)# <code>description IPv4flow</code>	(Optional) Describes the flow exporter as a maximum 63-character string.
<b>Step 4</b>	<b>Example:</b> Device(config-flow-exporter)# <code>destination 10.0.1.0</code>	

## Create a Flow Monitor

The NetFlow configuration requires a flow record, a flow monitor, and a flow exporter. This configuration should be the first step in the overall AVC configuration.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> Device# <code>configure terminal</code>	Enters global configuration mode.
<b>Step 2</b>	<b>flow monitor</b> <i>monitor-name</i>  <b>Example:</b> Device(config)# <code>flow monitor monitor-test</code>	Creates a flow monitor.

	Command or Action	Purpose
<b>Step 3</b>	<b>exporter</b> <i>exporter-name</i> <b>Example:</b> Device(config-flow-monitor)# exporter export-test	Binds this flow monitor with an already defined flow exporter.
<b>Step 4</b>	<b>record wireless avc basic</b> <b>Example:</b> Device(config-flow-monitor)# record wireless avc basic	Specifies the basic wireless AVC flow template.

## Configuring the Wireless WLAN Profile Policy

This configuration maps the flow-monitor or exporter constructs with wireless WLANs, thereby making APs collect FnF measurements.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b> <b>Example:</b> Device# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>wireless profile policy</b> <i>policy-name</i> <b>Example:</b> Device(config)# wireless profile policy default-policy-profile	Configures the WLAN policy profile and enters wireless policy configuration mode.
<b>Step 3</b>	<b>shutdown</b> <b>Example:</b> Device(config-wireless-policy)# shutdown	Disables the policy profile.
<b>Step 4</b>	<b>{ipv4   ipv6} flow monitor</b> <i>monitor-name</i> <b>input</b> <b>Example:</b> Device(config-wireless-policy)# ipv4 flow monitor monitor-test input	Specifies the name of the IPv4 or IPv6 ingress flow monitor.
<b>Step 5</b>	<b>{ipv4   ipv6} flow monitor</b> <i>monitor-name</i> <b>output</b> <b>Example:</b> Device(config-wireless-policy)# ipv4 flow monitor monitor-test output	Specifies the name of the IPv4 or IPv6 egress flow monitor.

	Command or Action	Purpose
<b>Step 6</b>	<b>no shutdown</b>  <b>Example:</b> Device(config-wireless-policy)# no shutdown	Enables the policy profile.

## Verifying Flow Exporter in Embedded Wireless Controller

To view the flow exporter details in the Embedded Wireless Controller, use the following command:

### show platform software wlavc status cp-exporter

```
show platform software wlavc status cp-exporter
AVC FNF Exporter status
IP: 10.10.1.1
connection statistics
    Sent bytes : 5672
    Sent packets : 569
    Sent records : 240
    Received packets : 800
    Received records : 564
Socket statistics
    New sockets : 3
    Closed sockets : 0
Library statistics  AVC
    cache errors : 0
    Unexpected Flow Monitor ID : 0
    Socket creation error : 0
```