

# Configuring Cisco NetFlow Export (IOS Device)

Please note that NetFlow data export has to be enabled on all interfaces of a router in order to see accurate IN and OUT traffic.

NetFlow, by default, is done on an **ingress basis**

NetFlow is a Cisco IOS application that provides statistics on packets that pass through the router. NetFlow collects statistics globally from traffic that passes through the switch and stores the statistics in the NetFlow table.

## Enabling NetFlow Data Export (NDE)

Enter global configuration mode on the **router** or **MSFC**, and issue the following commands for **each interface** on which you want to enable NetFlow:

```
interface {interface} {interface_number}
  ip route-cache flow
  bandwidth <kbps>
```

on a Cisco IOS device, **NetFlow is enabled on a per-interface basis**.  
optional, and is used to set the speed of the interface in **kilobits per second**. Interface speed or link speed value is used to later calculate **percentage utilization** values in traffic graphs.

In some recent IOS releases **Cisco Express Forwarding** has to be enabled. Issue the command **ip cef** in global configuration mode on the router or MSFC.

## Exporting NetFlow Data

Issue the following commands to export NetFlow data to the server on which the NetFlow collector is running:

```
ip flow-export destination {hostname|ip_address} 9996
```

Exports the NetFlow cache entries to the specified IP address. *(Software switched packets)*  
Use the IP address of the NetFlow reporting server, also called the NetFlow collector, and the NetFlow listener port. *The default UDP port is 9996.*

```
ip flow-export source {interface} {interface_number} | loopback 0
```

Sets the source IP address of the NetFlow exports sent by the device to the specified IP address.

```
ip flow-export version 5 [peer-as | origin-as]
```

Sets the NetFlow export version to version 5.  
If your router uses BGP you can specify that either the **origin** or **peer AS** is included in the export (it is not possible to include both)

```
ip flow-cache timeout active 1
```

Breaks up long-lived flows into 1-minute fragments. You can choose any number of seconds between 1 and 60. If you leave it at the **default of 30 minutes** your traffic will be exported as one flow.

```
ip flow-cache timeout inactive 15
```

Ensures that flows that have finished are periodically exported. You can choose any number of seconds between 10 and 60.

```
snmp-server ifindex persist
```

Enables **ifindex** persistence (interface names).  
This ensures that the ifindex values are persistent across reboots.

## Enabling NetFlow version 5 and 7

Maximum of 20% depending on IOS version

### NetFlow Versions:

- 1 - Original
- 5 - Standard and
- 7 - Specific to
- 8 - Ch
- 9 -

technologies, coming out now for EO, multicast, & BGP Next Hop

Shows NetFlow export information counters for multi-layer switches

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