



Configuring sFlow

This document describes the sampled flow (sFlow) feature and configuration steps to implement sFlow.

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Prerequisites for Configuring sFlow

- You must enable sFlow on an interface on Cisco ME 1200 NID.

Restrictions for Configuring sFlow

- ME 1200 NID does not support configuring more than one sFlow instance with maximum sample rate on the specified data source, either in the ingress or egress direction.

Information About sFlow

Using sFlow, a standards-based protocol mechanism, allows you to monitor Layer 2 traffic in data networks that contain switches and routers. It consists of :

- **sFlow Agent** (embedded on ME 1200 NID)—The sFlow Agent uses sampling technology to capture traffic statistics from the monitored device and then forwards the sampled data to a central sFlow Collector for analysis. Packet sampling is done using one or more sFlow instances, each configured with a sampling rate.

- sFlow Instances—There may be one or more sFlow Instances associated with a single data source. Each sFlow instance operates independently of other sFlow instances. For example, Packet Flow Sampling instances have their own sampling rates and Counter Sampling instances have their own sampling intervals.
- **sFlow Collector**—The sFlow Collector is a software application that can receive sFlow datagrams and present a view of traffic and other network parameters which are output as type, length, and value (TLV) in the datagrams. The sFlow collectors can also read and configure sFlow-managed objects. Both counter and packet flow statistics are collected and sent as sFlow Datagrams (defined by maximum datagram size of 200-1468) to a sFlow Collector.
 - sFlow Datagram—The sFlow Datagram format specifies a standard format for the sFlow Agent to send sampled data to a remote sFlow Collector. The sFlow Datagram version 5 is supported. The format of the sFlow Datagram is specified using the External Data Representation (XDR) standard. This makes it simpler for the sFlow Agent to encode and the sFlow Collector to decode. Samples are sent as User Datagram Protocol (UDP) packets to the host and port specified in the SFLOW MIB or CLI. The assigned port for sFlow (and the default specified in the SFLOW MIB) is port 6343. All sFlow Agents and applications by default must use UDP port 6343.

By default, sFlow is disabled on ME 1200 NID. You can enable sFlow on a specific interface or port.

How to Provision sFlow

Enabling sFlow Globally

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid <i>1/NID_ID</i> Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	sflow Example: Switch(config-controller)# sflow	Enters the sFlow mode.
Step 4	sFlow_global {agent-ip {ipv4 ipv6} collector-ip {ipv4 ipv6} collector-port datagram-maxsize rx-timeout}	Enters the sFlow global configuration mode. • agent-ip —Specifies Agent IP address.

	Command or Action	Purpose
	<p>Example:</p> <pre>Switch(config-controller-SFlow)# setsFlowGlobalConfig sFlow_global agent-ip ipv4 7.25.16.63 Switch(config-controller-SFlow)# setsFlowGlobalConfig sFlow_global collector-ip ipv4 7.25.16.253 Switch(config-controller-SFlow)# setsFlowGlobalConfig sFlow_global collector-port 2033 Switch(config-controller-SFlow)# setsFlowGlobalConfig sFlow_global datagram-maxsize 512 Switch(config-controller-SFlow)#setsFlowGlobalConfig sFlow_global rx-timeout 50000</pre>	<ul style="list-style-type: none"> ◦ ipv4—Specifies IPv4 address. ◦ ipv6—Specifies IPv6 address. • collector-ip—Specifies collector IP address. <ul style="list-style-type: none"> ◦ ipv4—Specifies IPv4 address. ◦ ipv6—Specifies IPv6 address. • collector-port—Specifies collector UDP port. The valid range is from 1 to 65535. • datagram-maxsize—Specifies maximum datagram size. The valid range is from 200 to 1468. • rx-timeout—Specifies the receive timeout in seconds. The valid range is from 0 to 2147483647. The switch decrements the timeout once every second, and samples are received as long as it is non-zero. Once it reaches zero, receiver and all its configurations are reset to defaults.
Step 5	<p>setsFlowGlobalConfig review</p> <p>Example:</p> <pre>Switch(config-controller-SFlow)# setsFlowGlobalConfig review</pre>	(Optional) Displays the configuration.
Step 6	<p>setsFlowGlobalConfig commit</p> <p>Example:</p> <pre>Switch(config-controller-SFlow)# setsFlowGlobalConfig commit</pre>	Sends the configuration to NID.
Step 7	<p>exit</p> <p>Example:</p> <pre>Switch(config-controller-SFlow)# exit</pre>	Exits to the config-controller mode.

Configuration Example

- The example shows how to enable sFlow globally:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# sflow
Switch(config-controller-SFlow)# setsFlowGlobalConfig sFlow_global agent-ip ipv4
7.25.16.63
Switch(config-controller-SFlow)# setsFlowGlobalConfig sFlow_global collector-ip ipv4
7.25.16.253
Switch(config-controller-SFlow)# setsFlowGlobalConfig sFlow_global collector-port 2033
Switch(config-controller-SFlow)# setsFlowGlobalConfig sFlow_global datagram-maxsize
512
```

```
Switch(config-controller-SFlow)# setsFlowGlobalConfig sFlow_global rx-timeout 50000
Switch(config-controller-SFlow)# setsFlowGlobalConfig review
```

Commands in queue:

```
setsFlowGlobalConfig sFlow_global agent-ip ipv4 7.25.16.63
setsFlowGlobalConfig sFlow_global collector-ip ipv4 7.25.16.253

setsFlowGlobalConfig sFlow_global collector-port 6343
setsFlowGlobalConfig sFlow_global datagram-maxsize 512
setsFlowGlobalConfig sFlow_global rx-timeout 50000
```

```
Switch(config-controller-SFlow)# setsFlowGlobalConfig commit
```

```
SetsFlowGlobalConfig Commit Success!!!
```

```
Switch(config-controller-SFlow)# exit
```

Enabling sFlow on a Port

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid <i>1/NID_ID</i> Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	sflow Example: Switch(config-controller)# sflow	Enters the sFlow mode.
Step 4	sflow_port {interface-id enable flow-sampler {enable-defaults sampling-rate sampling-maxsize} counter-poller {enable interval}} Example: Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port interface-id 3 Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port enable enable Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port counter-poller enable enable Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port counter-poller interval 10 Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port flow-sampler enable-defaults enable	Enters the sFlow port specific configuration mode. <ul style="list-style-type: none"> • interface-id—Specifies physical port. • enable—Enables or disables sFlow on this port. • flow-sampler—Specifies sFlow flow sampler configuration. <ul style="list-style-type: none"> ◦ enable-defaults—Enables the flow sampler default values. <p>Note To configure sampling-rate and sampling-maxsize as per your requirement, you must set this option to disable.</p> <ul style="list-style-type: none"> ◦ sampling-rate—Specifies the statistical sampling rate. The valid range is from 1 to 4294967295.

	Command or Action	Purpose
		<ul style="list-style-type: none"> ◦ sampling-maxsize—Specifies maximum number of bytes to transmit per flow sample. The valid range is from 14 to 200. • counter-poller—Specifies Interface counter poller configuration. <ul style="list-style-type: none"> ◦ enable—Enables counter poller. ◦ interval—Specifies counter poll interval. The valid range is from 1 to 3600 seconds.
Step 5	setsFlowPortConfig review Example: Switch(config-controller-SFlow)# setsFlowPortConfig review	(Optional) Displays the configuration.
Step 6	setsFlowPortConfig commit Example: Switch(config-controller-SFlow)# setsFlowPortConfig commit	Sends the configuration to NID.
Step 7	exit Example: Switch(config-controller-SFlow)# exit	Exits to the config-controller mode.

Configuration Example



Note

sFlow configuration does not persist on the NID. Running **show running-config.xml** command does not display the sFlow configuration globally or per-port. This is working as designed.

- The example shows how to enable sFlow on a port with default values enabled:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# sflow
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port interface-id 3
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port enable enable
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port flow-sampler
enable-defaults enable
Switch(config-controller-SFlow)# setsFlowPortConfig review
```

Commands in queue:

```
setsFlowPortConfig sFlow_port interface-id 3
setsFlowPortConfig sFlow_port enable enable
```

```
setsFlowPortConfig sFlow_port flow-sampler enable-defaults
enable
```

```
Switch(config-controller-SFlow)# setsFlowPortConfig commit
```

```
SetsFlowPortConfig Commit Success!!!
```

```
Switch(config-controller-SFlow)# exit
```

- The example shows how to enable sFlow on a port without any default values set:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# sflow
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port interface-id 1
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port enable enable
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port flow-sampler
enable-defaults disable
Switch(config-controller-SFlow)# setsFlowPortConfig review
```

```
Commands in queue:
```

```
setsFlowPortConfig sFlow_port interface-id 1
setsFlowPortConfig sFlow_port enable enable
setsFlowPortConfig sFlow_port flow-sampler enable-defaults
disable
```

```
Switch(config-controller-SFlow)# setsFlowPortConfig commit
```

```
SetsFlowPortConfig Commit Success!!!
```

```
Switch(config-controller-SFlow)# exit
```

- The example shows how enable sFlow on a port with user-configured parameters:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# sflow
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port interface-id 1
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port enable enable
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port flow-sampler
enable-defaults disable
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port flow-sampler
sampling-maxsize 512
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port flow-sampler sampling-rate
200
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port counter-poller enable
enable
Switch(config-controller-SFlow)# setsFlowPortConfig sFlow_port counter-poller interval
30
Switch(config-controller-SFlow)# setsFlowPortConfig review
```

```
Commands in queue:
```

```
setsFlowPortConfig sFlow_port interface-id 1
setsFlowPortConfig sFlow_port enable enable
setsFlowPortConfig sFlow_port flow-sampler enable-defaults
disable
setsFlowPortConfig sFlow_port flow-sampler sampling-maxsize
512
setsFlowPortConfig sFlow_port flow-sampler sampling-rate 200
setsFlowPortConfig sFlow_port counter-poller enable enable
setsFlowPortConfig sFlow_port counter-poller interval 30
```

```
Switch(config-controller-SFlow)# setsFlowPortConfig commit
```

```
SetsFlowPortConfig Commit Success!!!
```

```
Switch(config-controller-sFlow)# exit
```

Getting Current Global sFlow Values

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	sflow Example: Switch(config-controller)# sflow	Enters the sFlow mode.
Step 4	sFlow_global_req Example: Switch(config-controller-sFlow)# getsFlowGlobalConfig sFlow_global_req	Enters the sFlow global configuration mode.
Step 5	getsFlowGlobalConfig review Example: Switch(config-controller-sFlow)# getsFlowGlobalConfig review	(Optional) Displays the configuration.
Step 6	getsFlowGlobalConfig commit Example: Switch(config-controller-sFlow)# getsFlowGlobalConfig commit	Sends the configuration to NID.
Step 7	exit Example: Switch(config-controller-sFlow)# exit	Exits to the config-controller mode.

Configuration Example

- The example shows how to get current global sFlow values:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# sflow
```

```
Switch(config-controller-SFlow)# getFlowGlobalConfig sFlow_global_req
Switch(config-controller-SFlow)# getFlowGlobalConfig review
```

Commands in queue:

```
getFlowGlobalConfig sFlow_global_req
```

```
Switch(config-controller-SFlow)# getFlowGlobalConfig commit
```

```
GetFlowGlobalConfig_Output.sFlow_global.agent_ip.t = 1
GetFlowGlobalConfig_Output.sFlow_global.agent_ip.u.ipv4 = '0.0.0.0'
GetFlowGlobalConfig_Output.sFlow_global.collector_ip.t = 1
GetFlowGlobalConfig_Output.sFlow_global.collector_ip.u.ipv4 =
'0.0.0.0'
GetFlowGlobalConfig_Output.sFlow_global.collector_port = 65535
GetFlowGlobalConfig_Output.sFlow_global.datagram-maxsize = 1468
GetFlowGlobalConfig_Output.sFlow_global.rx-timeout = 50000
```

```
GetFlowGlobalConfig Commit Success!!!
```

```
Switch(config-controller-SFlow)# exit
The following is a sample output on the NID.
```

```
Decoding of Request message was successful urn:#getFlowConfig
Decoded record:
GetFlowGlobalConfig_Input.sFlow_global_req = '0'
Encoding of Response message was successful
Encoded record:
GetFlowGlobalConfig_Output.sFlow_global.agent_ip.t = 1
GetFlowGlobalConfig_Output.sFlow_global.agent_ip.u.ipv4 = '0.0.0.0'
GetFlowGlobalConfig_Output.sFlow_global.collector_ip.t = 1
GetFlowGlobalConfig_Output.sFlow_global.collector_ip.u.ipv4 =
'0.0.0.0'
GetFlowGlobalConfig_Output.sFlow_global.collector_port = 65535
GetFlowGlobalConfig_Output.sFlow_global.datagram-maxsize = 1468
GetFlowGlobalConfig_Output.sFlow_global.rx-timeout = 50000
GetFlowGlobalConfig_Output.xmlns:ns0 =
"http://new.webservice.namespace"
GetFlowGlobalConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
GetFlowGlobalConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
GetFlowGlobalConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
GetFlowGlobalConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
GetFlowGlobalConfig_Output.xmlns:wsdl =
"http://schemas.xmlsoap.org/wsdl/"
```


Getting Current Port Specific sFlow Values

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid /NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	sflow Example: Switch(config-controller)# sflow	Enters the sFlow mode.
Step 4	sflowPortConfigReq port id Example: Switch(config-controller-SFlow)# getFlowPortConfig sflowPortConfigReq 2	Enters the sFlow port-specific configuration mode.
Step 5	getFlowGlobalConfig review Example: Switch(config-controller-SFlow)# getFlowGlobalConfig review	(Optional) Displays the configuration.
Step 6	getFlowGlobalConfig commit Example: Switch(config-controller-SFlow)# getFlowGlobalConfig commit	Sends the configuration to NID.
Step 7	exit Example: Switch(config-controller-SFlow)# exit	Exits to the config-controller mode.

Configuration Example

- The example shows how to get current port-specific sFlow values:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# sflow
Switch(config-controller-SFlow)# getFlowPortConfig sflowPortConfigReq 2
Switch(config-controller-SFlow)# getFlowGlobalConfig review
```

Commands in queue:

```
getFlowPortConfig sFlowPortConfigReq 2
```

```
Switch(config-controller-sFlow)# getFlowGlobalConfig commit
```

```
GetFlowPortConfig_Output.sFlow_port.interface_id = 2
GetFlowPortConfig_Output.sFlow_port.enable = false
GetFlowPortConfig_Output.sFlow_port.flow_sampler.enable_defaults =
true
GetFlowPortConfig_Output.sFlow_port.flow_sampler.sampling_rate = 4096
GetFlowPortConfig_Output.sFlow_port.flow_sampler.sampling-maxsize =
128
GetFlowPortConfig_Output.sFlow_port.counter_poller.enable = false
GetFlowPortConfig_Output.sFlow_port.counter_poller.interval = 60
```

```
GetFlowPortConfig Commit Success!!!
```

```
Switch(config-controller-sFlow)# exit
```

The following is a sample output on the NID.

```
GetFlowPortConfig_Input.sFlowPortConfigReq = 2
Encoding of Response message was successful
Encoded record:
GetFlowPortConfig_Output.sFlow_port.interface_id = 2
GetFlowPortConfig_Output.sFlow_port.enable = false
GetFlowPortConfig_Output.sFlow_port.flow_sampler.enable_defaults =
true
GetFlowPortConfig_Output.sFlow_port.flow_sampler.sampling_rate = 4096
GetFlowPortConfig_Output.sFlow_port.flow_sampler.sampling-maxsize =
128
GetFlowPortConfig_Output.sFlow_port.counter_poller.enable = false
GetFlowPortConfig_Output.sFlow_port.counter_poller.interval = 60
GetFlowPortConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
GetFlowPortConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
GetFlowPortConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
GetFlowPortConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
GetFlowPortConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
GetFlowPortConfig_Output.xmlns:wsdl =
"http://schemas.xmlsoap.org/wsdl/"
```

Clearing sFlow Statistics

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	sflow Example: Switch(config-controller)# sflow	Enters the sFlow mode.
Step 4	clear_sflow_stats Example: Switch(config-controller-sFlow)# clearsFlowStatistics clear_sflow_stats	Clears sFlow statistics.
Step 5	clearsFlowStatistics review Example: Switch(config-controller-sFlow)# clearsFlowStatistics review	(Optional) Displays the configuration.
Step 6	clearsFlowStatistics commit Example: Switch(config-controller-sFlow)# clearsFlowStatistics commit	Sends the configuration to NID.
Step 7	exit Example: Switch(config-controller-sFlow)# exit	Exits to the config-controller mode.

Configuration Example

- The example shows how to clear sFlow statistics:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# sflow
Switch(config-controller-sFlow)# clearsFlowStatistics clear_sflow_stats
Switch(config-controller-sFlow)# clearsFlowStatistics review
```

```
Commands in queue:
      clearsFlowStatistics clear_sflow_stats
```

```
Switch(config-controller-SFlow)# clearsFlowStatistics commit
```

```
ClearsFlowStatistics Commit Success!!!
```

```
Switch(config-controller-SFlow)# exit
```

Verifying sFlow

Use the following commands to verify the sFlow status on the controller.

- **showsFlowStatistics sFlow_stats_req**

This command displays the sFlow statistics on the NID. The following is a sample output from the command:

```
Switch(config-controller-SFlow)# showsFlowStatistics sFlow_stats_req
Switch(config-controller-SFlow)# showsFlowStatistics review
```

```
Commands in queue:
      showsFlowStatistics sFlow_stats_req
```

```
Switch(config-controller-SFlow)# showsFlowStatistics commit
```

```
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[0].interface_id
= 1
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[0].tx_flow_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[0].counter_samples
= 42
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[1].interface_id
= 2
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[1].tx_flow_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[1].counter_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[2].interface_id
= 3
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[2].tx_flow_samples
= 1
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[2].counter_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[3].interface_id
= 4
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[3].tx_flow_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[3].counter_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[4].interface_id
= 5
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[4].tx_flow_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[4].counter_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[5].interface_id
```

```

= 6
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[5].tx_flow_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[5].counter_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.receiver.statistics[0].tx_successes
= 0
ShowsFlowStatistics_Output.sFlow_stats.receiver.statistics[0].tx_errors
= 43
ShowsFlowStatistics_Output.sFlow_stats.receiver.statistics[0].flow_samples
= 1
ShowsFlowStatistics_Output.sFlow_stats.receiver.statistics[0].counter_samples
= 42

ShowsFlowStatistics Commit Success!!!

```

The following is a sample output on the NID.

```

Decoding of Request message was successful urn:#showsFlowStatistics
Decoded record:
ShowsFlowStatistics_Input.sFlow_stats_req = '0'
Encoding of Response message was successful
Encoded record:
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[0].interface_id
= 1
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[0].tx_flow_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[0].counter_samples
= 42
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[1].interface_id
= 2
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[1].tx_flow_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[1].counter_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[2].interface_id
= 3
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[2].tx_flow_samples
= 1
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[2].counter_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[3].interface_id
= 4
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[3].tx_flow_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[3].counter_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[4].interface_id
= 5
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[4].tx_flow_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[4].counter_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[5].interface_id
= 6
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[5].tx_flow_samples
= 0
ShowsFlowStatistics_Output.sFlow_stats.samplers.interface_[5].counter_samples

```

```

= 0
ShowsFlowStatistics_Output.sFlow_stats.receiver.statistics[0].tx_successes
= 0
ShowsFlowStatistics_Output.sFlow_stats.receiver.statistics[0].tx_errors
= 43
ShowsFlowStatistics_Output.sFlow_stats.receiver.statistics[0].flow_samples
= 1
ShowsFlowStatistics_Output.sFlow_stats.receiver.statistics[0].counter_samples
= 42
ShowsFlowStatistics_Output.xmlns:ns0 =
"http://new.webservice.namespace"
ShowsFlowStatistics_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
ShowsFlowStatistics_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
ShowsFlowStatistics_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
ShowsFlowStatistics_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
ShowsFlowStatistics_Output.xmlns:wsdl =
"http://schemas.xmlsoap.org/wsdl/"

```

Additional References

Related Documents

Related Topic	Document Title
Cisco ME 3800x and ME 3600x Switches Software Configuration Guide, Cisco IOS Release 15.4(1)S	http://www.cisco.com/c/en/us/td/docs/switches/metro/me3600x_3800x/software/release/15-4_1_S/configuration/guide/3800x3600xscg.html

MIBs

MIB	MIBs Link
MIBs Supporting Cisco IOS	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<p>http://www.cisco.com/support</p>

