



Configuring Top-N Reports

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Top-N Reports Overview

Top-N reports allows you to collect and analyze data for each interface on a switch. The statistics for each port are sorted by one of the statistic types that are listed in the following table.

Table 1: Valid Top-N Statistic Types

Statistic Type	Definition
broadcast	Number of input/output broadcast packets
bytes	Number of input/output bytes
multicast	Number of input/output multicast packets
drops	Number of drops
packets	Number of input/output packets
utilization	Utilization

Top-N Reports Operation

When you enter the **collect top** command, processing begins and the system prompt reappears immediately. When processing completes, the reports are not displayed immediately on the screen; the reports are saved for later viewing. The Top-N reports notify you when the reports are complete by sending a syslog message to the screen.

To view the completed reports, enter the **show top counters interface report** command. Only completed reports are displayed. For reports that are not completed, there is a short description of the process information.

To terminate a Top-N reports process, enter the **clear top counters interface report** command. Pressing Ctrl-C does not terminate Top-N reports processes. The completed reports remain available for viewing until you remove them by entering the **clear top counters interface report { all report_num }** command.

Collecting Interface Statistics for Top-N Reports

When enabling Top-N reports creation, note the following information:

- You can specify the number of busiest ports for which to create reports (the default is 20).
- You can specify the statistic type by which ports are determined to be the busiest (the default is utilization). The supported values for `statistic_type` are broadcast, bytes, multicast, drop, packets, and utilization.
- You can specify the interval over which statistics are collected (range: 0 through 999; the default is 30 seconds). For utilization report the interval range is 10-999.
- Except for a utilization report (configured with the sort-by utilization keywords), you can specify an interval of zero to create a report that displays the current counter values instead of a report that displays the difference between the start-of-interval counter values and the end-of-interval counter values.
- You can collect up to a max of five reports

Procedure

	Command or Action	Purpose
Step 1	<code>switch(config)# collect top [num] counters interface {all vEthernet} [sort-by { broadcast bytes drops multicast packets utilization }] [interval seconds]</code>	Collects interface statistics for a Top-N report. Note You can get the interface statistics for a Top-N report sorted by broadcast, bytes, drops, multicast, packets, and utilization for vEthernet interfaces. In this release, the Cisco Nexus 1000V InterCloud supports only vEthernet interfaces.

This example shows how to collect interface statistics for Top-N reports for an interval of 76 seconds for the four ports with the highest utilization:

```
switch# collect top 4 counters interface all sort-by utilization interval 76
```

Displaying Top-N Reports

You can use this procedure to display Top-N reports. Top-N reports statistics are not displayed in the following situations:

- If a port is not present during the first poll.
- If a port is not present during the second poll.

Procedure

	Command or Action	Purpose
Step 1	switch(config)# show top counters interface report	Displays Top-N reports. Note To display information about all the reports, do not enter the report number.
Step 2	switch(config)# show top counters interface report <i>[report_num]</i>	Displays Top-N reports for a specific report number.

This example shows how to display information about all the Top-N reports:

```
switch# show top counters interface report
```

This example shows how to display information about a specific Top-N report:

```
switch# show top counters interface report 1
```

Clearing Top-N Reports

You can use this procedure to clear Top-N reports.

Procedure

	Command or Action	Purpose
Step 1	switch(config)# clear top counters interface report { <i>all rep_num</i> }	Clears all the Top-N reports. You can specify a particular report or you can use all to clear all reports. You can also use this command to cancel a report which is being collected.

This example shows how to remove Top-N reports:

```
switch# clear top counters interface report 4
```

