



PTP Commands

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performance-monitoring

To enable the collection of performance-monitoring statistics, use the **performance-monitoring** command in PTP configuration mode.

performance-monitoring

Syntax Description	This command has no keywords or arguments.	
Command Default	By default performance-monitoring is not enabled.	
Command Modes	Global PTP configuration	
Command History	Release	Modification
	Release 24.3.1	This command was introduced.
Usage Guidelines	None.	
Task ID	Task ID	Operation
	performance-monitoring	read, write

The following example shows how to enable the collection of performance-monitoring statistics.

```
Router(config)# ptp
Router(config-ptp)# performance-monitoring
Router(config-ptp)# commit
```

show ptp dataset performance

To display the performance monitoring dataset for the local clock and any PTP port for the current 15-minute window, use the **show ptp dataset performance** { **clock** | **port** { **all** | **interface** *name* } } command in EXEC mode.

```
show ptp dataset performance { clock | port { all | interface name } }
```

Syntax Description	clock Displays the performance monitoring dataset of the local clock for the current 15-minute window.				
	port Displays the performance monitoring dataset of the port for the current 15-minute window for <i>all</i> or specified interface .				
Syntax Description	This command has no keywords or arguments.				
Command Default	None				
Command Modes	EXEC				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>Release 24.3.1</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	Release 24.3.1	This command was introduced.
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Usage Guidelines	None.				
Task ID	<table border="1"> <thead> <tr> <th>Task ID</th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>performance</td> <td>read</td> </tr> </tbody> </table>	Task ID	Operation	performance	read
Task ID	Operation				
performance	read				

Example

The following show command displays the performance monitoring dataset of the local clock for the current 15-minute window.

```
Router#show ptp dataset performance clock

performanceMonitoringDS for the current 15-minute window:
Clock ID cccfffecccc00, steps removed 1, receiving-port 2:
  Start of time window: Thursday, April 11, 2024 14:18:59
  Measurement is valid
  Period is complete
  Measurement has been taken with reference to system clock
  Master slave delay:
    Average: 50ns
    Min: 50ns
    Max: 70ns
    Std: 1ns
  Slave master delay:
    Average: 51ns
    Min: 51ns
    Max: 71ns
```

```

Std: 2ns
Mean path delay:
  Average: 52ns
  Min: 52ns
  Max: 72ns
  Std: 3ns
Offset from master:
  Average: 53ns
  Min: 53ns
  Max: 73ns
  Std: 4ns

Clock ID aaaabbbecccc00, steps removed 1, receiving-port 2:
Start of time window: Thursday, April 11, 2024 14:18:59
Measurement is not valid
Period is not complete
Measurement has been taken with reference to system clock
Master slave delay:
  Average: 50ns
  Min: 50ns
  Max: 70ns
  Std: 1ns
Slave master delay:
  Average: 51ns
  Min: 51ns
  Max: 71ns
  Std: 2ns
Mean path delay:
  Average: 52ns
  Min: 52ns
  Max: 72ns
  Std: 3ns
Offset from master:
  Average: 53ns
  Min: 53ns
  Max: 73ns
  Std: 4ns

```

Example

The following show command displays the performance monitoring dataset of the port for the current 15-minute window.

```

Router#show ptp dataset performance port GigabitEthernet 0/0/0/1
performanceMonitoringPortDS for the current 15-minute window:
Interface GigabitEthernet 0/0/0/1
Start of time window: Thursday, April 11, 2024 14:18:59
Measurement is valid
Period is not complete
Measurement has been taken with reference to system clock
Packets          Sent          Received      Dropped
-----
Announce         3             83           11
Sync             0             32           5
Follow-Up        0             31           0
Delay-Req        22            0            0
Delay-Resp       0             21           7
Pdelay-Req       0             7            0
Pdelay-Resp      0             0            0

```

Pdelay-Resp-Follow-Up	0	0	0
Signaling	2	1	0
Management	0	0	0
Other	0	3	12
	-----	-----	-----
TOTAL	27	178	35

show ptp platform performance-counters

To display counters details for platform performance sent by Precision Time Protocol (PTP), use the **show ptp platform performance-counters** in command in EXEC mode.

show ptp platform performance-counters { detail | brief }

Syntax Description	detail Displays all 123 counter record details for platform performance sent by PTP.
	brief Displays only the current counter record in 15 minutes, 24 hours, 3minutes, and 1hour windows.

Command Default None

Command Modes EXEC

Command History	Release	Modification
	Release 24.3.1	This command was introduced.

Usage Guidelines None.

Task ID	Task ID	Operation
	platform performance-counters	read

Example

In this example, the **detail** mode of the command displays all 123 records.

```
Router#sh ptp platform performance-counters detail
```

```
PTP Current record index 15 min: 96
PTP Current record index 3 min: 119
```

```
PTP performance monitoring statistics:
```

```
15 min stats
```

```
[0] 12 August 2024 07:08:59 UTC 15 min statistics
```

deviation	Stat	Min(sec.nsec) Samples	Max(sec.nsec)	Mean(sec.nsec)	Std
Master-slave-delay	00000000.71191	-00000000.15937 154	00000000.333	-00000000.1780	
Slave-master-delay	00000000.74103	00000000.319 154	00000000.16593	00000000.2437	
mean-path-delay	00000000.4057	00000000.322 154	00000000.334	00000000.327	
offset-from-master		-00000000.16263	00000000.6	-00000000.2108	

```
000000000.72546      154
```

```
-----
                Complete      Valid      PmRef      ServoAtStart      ServoAtEnd
LastServoFlapTime
-----
                FALSE        FALSE        TRUE        PHASE_LOCKED      HOLDOVER                12
Apr 2024 07:09:09 UTC
=====
```

```
....
```

Example

In this example, the **brief** mode displays only the current counter record in 15 minutes, 24 hours, 3minutes, and 1hour windows.

```
Router#sh ptp platform performance-counters brief
```

```
=====
PTP Current record index 15 min: 96
PTP Current record index 3 min: 116

PTP performance monitoring statistics:
-----
15 min stats
[0]      30 Apr 2024 11:46:07 UTC 15 min statistics
-----
                Stat      Min(sec.nsec)      Max(sec.nsec)      Mean(sec.nsec)      Std
deviation      Samples
-----
Master-slave-delay 000000000.271      000000000.336      000000000.325
000000000.38386    13922
Slave-master-delay 000000000.314      000000000.377      000000000.326
000000000.38526    13922
mean-path-delay   000000000.318      000000000.334      000000000.325
000000000.38425    13922
offset-from-master -000000000.53      000000000.9        -000000000.0
000000000.369     13922
-----
                Complete      Valid      PmRef      ServoAtStart      ServoAtEnd
LastServoFlapTime
-----
                FALSE        FALSE        TRUE        FREQ_LOCKED      HOLDOVER                30
Apr 2024 12:00:33 UTC
=====
```

```
show ptp platform performance-counters
```