



Temperature and Power Monitoring for SFP DOMs

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You can configure how often you monitor the temperature and power of SFP digital optical monitoring (DOM) modules (SFP DOMs) within CGS 2520 switches (switch).

Previously, this monitoring interval was not a user-configurable setting. You could only monitor the temperature and power settings of an SFP with DOM support every 600 seconds (10 minutes).

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Information About Temperature and Power Monitoring

You can configure the switch to request MIB reading intervals of the temperature and power of SFPs with DOM support every 30 to 599 seconds.

SFPs, which are also referred to as *transceivers*, come with either LC connectors (fiber) or RJ-45 (copper) and provide connection to devices over uplink interfaces.



Note

Copper SFPs are not supported in the initial release. (See [Feature History](#))



Prerequisites

Review supported SFP DOM modules described in the following hardware installation guide:

[Cisco CGS 2520 Hardware Installation Guide](#)

Guidelines and Limitations

If you do not modify the monitoring interval of temperature and power for SFP DOM modules, the default monitoring interval remains at 600 seconds (10 minutes).

Configuration

You can define power and temperature monitoring intervals on the CGS 2520.

This section includes the following topics:

- [Modifying the Power and Temperature Monitoring Interval for SFP DOMs](#)
- [SNMP MIB OID Updates Automatically](#)

Modifying the Power and Temperature Monitoring Interval for SFP DOMs

BEFORE YOU BEGIN

Review the [Prerequisites](#).

Review the [Guidelines and Limitations](#).

DETAILED STEPS

	Command	Purpose
Step 1	<code>configure terminal</code>	Enters configuration mode.
Step 2	<code>transceiver type {all}</code>	Enters the transceiver (SFP DOMs) configuration mode.
Step 3	<code>monitoring interval <value></code>	<p>Defines how often you want to check the temperature and power values of the SFP DOMs on the switch in seconds.</p> <p>Value range: 30 to 599 seconds.</p> <p>Note The value you set applies to all SFP DOMs on the switch, current and future.</p>

EXAMPLE

This example configures a monitoring interval of 300 seconds (5 minutes) on all SFP DOMs on the switch.

```
switch#: configure terminal
switch(config)# transceiver type all
switch(config-xcvr-type)# monitoring interval 300
```

To confirm the power and temperature interval configuration, enter the **show run** command:

```
switch(config-xcvr-type)# show run

!
transceiver type all
monitoring interval 300
!
!
```

SNMP MIB OID Updates Automatically

When you configure a temperature and power monitoring interval value for SFP DOMs using the **monitor interval <30-599>** command, the entSensorValueUpdateRate OID value is automatically updated in the CISCO-ENTITY-SENSOR-MIB.my MIB.

```
entSensorValueUpdateRate <----Value updated automatically after you configure the value
entSensorUpdateRate
ciscoEntitySensorMIB.
entitySensorMIBObjects.
entSensorValues.
entSensorValueTable.
entSensorValueEntry.
entSensorValueUpdateRate
```

Feature History

Feature	Release	Feature Information
Temperature and Power Monitoring Interval for SFP DOMs	Cisco IOS Release 15.2(3)EA	Initial support of the feature on CGS 2520.

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