1 Intelligent Monitoring Commands

Command	Function
show fan	Display the fan information of a chassis.
show power	Display the power supply information.
show temperature	Display device temperature and threshold configuration.

1.1   show fan

Function

Run the **show fan** command to display the fan information of a chassis.

Syntax

show fan [[[*device-id*] *fan-id*] **detail** | **version**]

Parameter Description

device-id: Chassis ID of the fan tray to be displayed. This parameter is available only in VSU mode.

fan-id: ID of the fan tray to be displayed. IDs of all fan trays are displayed by default. In VSU mode, if a fan tray is specified but *device-id* is not specified, fans of the current chassis are displayed by default.

detail: Displays detailed information of fans. Except the content displayed by the **show fan** command, the rotating speed of the fans in each fan tray is displayed. For a faulty fan, its detailed fault information is displayed. The detailed information of all fan trays is displayed by default. If a fan tray ID is specified, only the detailed information of the specified fan tray is displayed.

version: Displays the version of a fan.

Command Modes

All modes except the user EXEC mode

Default Level

14

Usage Guidelines

This command is used to display fan information. If no parameter is specified in the **show fan** command, the model, serial number, operating status, and fan speed adjustment mode of all fan trays are displayed.

If a fan tray is faulty, the **show fan detail** command can be run to display fault cause of the fan tray.

Examples

The following example displays fan information.

```
Hostname> enable
Hostname# show fan
Fan id Type             Status     Hardware Version Serial Number
------ ---------------- ---------- ---------------- ---------------
1      M1SFAN I-F       ok         1.00             5555555555555
2      M1SFAN I-F       ok         1.00             6666666666666
```

Table 1-1Output Fields of the show fan Command

Field	Description
Fan id	ID of a fan tray
Type	Fan type
Status	Status of a fan tray. A fan can be in one of the following statuses:

Field	Description
	ok: A fan runs normally. **no-present**: A fan tray is not in position. **fail**: At least one sub-fan stops rotating. **line fail**: Communication fails. **N/A**: Other errors.
Hardware-Version	Hardware version
Serial Number	Serial number of a fan

The following example displays detailed information of a fan.

```
Hostname> enable
Hostname# show fan detail
Card-type: Orion_B26Q
Fan-id: 1
    Status:         ok
    Mode:           normal
    Fan-type:       M1SFAN I-F
    Serial Number:  5555555555555


    sub-fan-id  status  speed(rpm)  speed-level
    ----------  ------  ----------  ----------
    1           ok      7830        118
Fan-id: 2
    Status:         ok
    Mode:           normal
    Fan-type:       M1SFAN I-F
    Serial Number:  6666666666666


    sub-fan-id  status  speed(rpm)  speed-level
    ----------  ------  ----------  ----------
    1           ok      7980        118
---------
```

The following example displays detailed information of fan 1.

```
Hostname> enable
Hostname# show fan 1 detail
Chassis-type: S6120-20XS4VS2QXS
Fan-id: 1
    Status:         ok
    Mode:           normal
    Fan-type:       M1SFAN I-F
    Serial Number:  5555555555555


    sub-fan-id  status  speed(rpm)  speed-level
    ----------  ------  ----------  ----------
```

```
   1          ok      7125        108
```

Table 1-2 Output Fields of the show fan detail Command

Field	Description
Chassis-type	Device type
Fan id	ID of a fan tray
Status	Status of a fan tray. A fan can be in one of the following statuses: ● **ok**: A fan runs normally. ● **no-present**: A fan tray is not in position. ● **fail**: At least one sub-fan stops rotating. ● **line fail**: Communication fails. ● **N/A**: Other errors.
Mode	Fan mode. A fan can be in one of the following modes: ● **quiet**: Quiet mode. The rotating speed of a fan in the normal mode is higher than that of a fan in the quiet mode at the same level. ● **defined**: User-defined mode. The rotating speed of fans can be customized. ● **normal**: Normal mode.
Fan-type	Fan-type
Serial Numbe	Serial numbe of a fan
sub-fan-id	ID of a sub-fan
Status	Status of a sub-fan. A sub-fan can be in one of the following statuses (if there are multiple sub-fans, the corresponding fan tray fails when one sub-fan fails). ● **ok**: A sub-fan runs normally. ● **fail**: A sub-fan stops rotating.
speed(rpm)	Rotating speed, in revolutions per minute.
speed-level	Level of a rotating speed. The value range is from 1 to 255. A higher level indicates a greater rotating speed.

Notifications

N/A

Common Errors

N/A

Platform Description

N/A

Related Commands

N/A

1.2 show power

Function

Run the **show power** command to display the power supply information.

Syntax

show power [**version**]

Parameter Description

version: Displays serial number, hardware version No., and software version No. of each power supply.

Command Modes

All modes except the user EXEC mode

Default Level

14

Usage Guidelines

N/A

Examples

The following example displays basic power supply information.

```
Hostname> enable
Hostname# show power
Power-id Power-type          Status     Hardware-Version Serial
Supply(W)
-------- -------------------- ---------- ----------------
------------------------------ ---------
1       Orion_B26Q           ok         1.3              R253H1942130110
150
2       N/A                  no-present N/A              N/A
N/A
```

Table 1-1 Output Fields of the show power Command

Field	Description
Power-id	ID of a power supply
Power-type	Power supply type
Status	Status of a power supply:

Field	Description
	• **no-present**: The power supply is not in position. • **ok**: The power supply works normally. • **off**: The power supply is powered off. • **fail**: The power supply fails. • **line-fail**: Communication fails.
Supply(W)	Power, in Watt
Hardware-Version	Hardware version
Serial	Serial number of a power supply

The following example displays power supply version information.

```
Hostname> enable
Hostname# show power version
Card-type: Orion_B26Q

Power-id: 1
    Serial Number:      R253H1942130110
    Type:               Orion_B26Q
    Hardware Version:   1.3
    Software Version:   N/A
    Temperature(C):     N/A
Power-id: 2
    Status:         no-present
```

Table 1-2 Output Fields of the show power version Command

Field	Description
Card-type	Device type
Power-id	ID of a power supply
Serial Number	Serial number of a power supply
Type	Power supply type
Hardware Version	Hardware version
Software Version	Software version
Temperature	Temperature of a power supply

Notifications

N/A

Common Errors

N/A

Platform Description

N/A

Related Commands

N/A

1.3   show temperature

Function

Run the **show temperature** command to display device temperature and threshold configuration.

Syntax

show temperature

Parameter Description

N/A

Command Modes

All modes except the user EXEC mode

Default Level

14

Usage Guidelines

This command is used to display current temperature and temperature thresholds of a device.

Temperature thresholds include alarm threshold and hazard threshold.

● Alarm threshold: When the temperature of a device exceeds the alarm threshold, the active supervisor module generates a Syslog message and the alarm indicator on the panel turns yellow.

● Hazard threshold: It indicates the power-off temperature. When the temperature of a device exceeds the hazard threshold, the device is powered off automatically. In addition, the active supervisor module generates a Syslog message and the alarm indicator on the panel turns red.

Examples

The following example displays temperature and temperature thresholds of all devices.

```
Hostname> enable
Hostname# show temperature
Temperature:
----------------------------------------------------------------------------
Slot     Temp_name      Warning         Shutdown        Current        Status
                        (Celsius)       (Celsius)       (Celsius)
----------------------------------------------------------------------------
0        air_inlet      55              72              32             ok
```

```
0        board        60              77              39          ok
0        switch       90              102             55          ok
```

Table 1-1Output Fields of the show temperature Command

Field	Description
Slot	Slot ID of a device
Temp_name	Name corresponding to a temperature point
Warning	Warning level of temperature, in °C
Shutdown	Critical level of temperature, in °C. This is the hazard threshold and power-off temperature of a device.
Current	Temperature value corresponding to this temperature, in °C
Status	Status of a temperature. A temperature can be in one of the following statuses: ● **ok**: Current temperature is within the normal range. ● **fail**: A temperature sensor fails. ● **warning**: Current temperature exceeds the alarm threshold of the warning level. ● **critical**: Current temperature exceeds the alarm threshold of the shutdown level.

Notifications

N/A

Common Errors

N/A

Platform Description

N/A

Related Commands

N/A