



HPE 5900 SwitchSeries - Fan Failure Troubleshooting/Fan prefer-direction

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Environment

- HPE 5900 switch

Issue

- Fan prefer-direction
- Reconfigure the air flow
- Fan Air flow
- Wind Direction
- Prefer Wind Direction

Cause

Resolution

To resolve the problem:

1. Verify that the preferred airflow direction specified for the fans is the same as the airflow direction of the fans:

a. Display fan operating status.

```
[Sysname]display fan
```

```
Slot 1
```

```
FAN 1State : FanDirectionFault
```

```
Wind Direction :Port-to-Power
```

```
Prefer Wind Direction :Power-to-Port
```

```
FAN 2State
```

```
: FanDirectionFault
```

```
Wind Direction :Port-to-Power
```

```
Prefer Wind Direction :Power-to-Port
```

b. If the preferred airflow direction is different:

- Use The fan prefer-direction slot slot-number { power-to-port | port-to-power } command to change the setting.

Syntax:

[Sysname]
Fan prefer-direction slot { power-to-port / port-to-power }

Example:# Specify port-to-power as the preferred airflow direction for member device 1.
system-view

[Sysname] fan prefer-direction slot 1 port-to-power

- Use `undo fan prefer-direction` to restore the default.

NOTE - The default preferred airflow direction is from the power module side to the port side.

Parameters:

slot : Specifies an IRF member device.

power-to-port: Specifies the airflow direction from the power module side to the port side.

port-to-power: Specifies the airflow direction from the port side to the power module side.

NOTE :Required Privileges-

Views:System view

Predefined user roles:network-admin"

c. Verify the modification.

[Sysname]display fan

Slot 1

FAN 1

State : Normal

Wind Direction :**Port-to-Power**

Prefer Wind Direction :**Port-to-Power**

FAN 2

State : Normal

Wind Direction :**Port-to-Power**

Prefer Wind Direction :**Port-to-Power**

2. If the fans still cannot operate correctly, check whether the fans are damaged. If the fan status is fault, replace the fan tray.

3. If the problem persists, contact HP Support.

NOTE: Correct fan part number is JC683A for the switch HP A58x0AF Front (port side) to Back (power side) Airflow Fan Tray.

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