

# Contents

1 Configuring Intelligent Monitoring.....	1
1.1 Introduction.....	1
1.1.1 Overview.....	1
1.1.2 Principles.....	1
1.2 Monitoring.....	1

# 1 Configuring Intelligent Monitoring

## 1.1 Introduction

### 1.1.1 Overview

Intelligent monitoring is an intelligent hardware management function of devices, including intelligent fan speed adjustment, and intelligent temperature monitoring. The intelligent monitoring function automatically adjusts fan speed based on the change of the ambient temperature, and monitors temperature change of the cards in real time in order to give notifications to users. By default, the intelligent monitoring function is enabled after the device is powered on. Users can use this function without need of any configuration. Apart from the default configuration, the system provides a variety of configuration methods so that you can change the default configuration of the system as necessary.

### 1.1.2 Principles

#### 1. Power Monitoring

A device supports multiple power modules. However, different types of power modules cannot be mixed. When a power supply is inserted, the system identifies this power supply and checks whether it conflicts with the original power supply type. If yes, a power supply with a lower power is selected. The alarm indicator turns yellow and a log alarm is generated. After the power supply is removed, the abnormality is cleared and the system restores to normal.

#### 2. Intelligent Speed Adjustment of Fans

The system automatically specifies a default start rotating speed for the fans based on the current operating mode of the fans. As the ambient temperature rises or drops, the fans automatically raise or reduce their rotating speed to dissipate heat and ensure that the noise is low.

#### 3. Intelligent Temperature Monitoring

The active supervisor module monitors the temperature of all cards and notifies users of temperature change when the CA system runs normally.

## 1.2 Monitoring

Run the **show** command to check the running status of a configured function to verify the configuration effect.

Figure 1-1 Monitoring

Command	Purpose
<b>show fan</b> [ [ <i>device-id</i> ] <i>fan-id</i> ] <b>detail</b>   <b>version</b> ]	Displays fan information.
<b>show temperature</b>	Displays line card information such as current

Command	Purpose
	temperature and temperature thresholds.
<b>show power [ version ]</b>	Displays power information about line cards and respective power supply priorities.