# Chapter 18: Info-center

# Contents

# Chapter 18  Info-center

## 18.1    Info-center Overview

As the information center of the system, the Info-center processes and outputs information in aunified manner.

Other modules in the system send information to be outputted to the Info-center. The Info-center determines the output format based on user configurations and outputs informationto the specified display device based on information output functions and filtering rules in userconfigurations.

Info-center information producers (modules outputting information) only need to output information to the Info-center, without concerning whether information needs to be outputted tothe console, telnet terminal, or log host (Info-center server). Information consumers (the console, telnet terminal, history buffer, log host, and SNMP agent) can select the desired information and discard the unwanted information based on their demands, on condition that proper filtering rules are configured.

## 18.2    Configure Info-center

### 18.2.1   Info-center Configuration List

| Configuration Task | Description | Detailed Configuration |
|---|---|---|
|  |  |  |

| | | |
|---|---|---|
| Enabling/Disabling the Info-center for the equipment | Required | 18.2.2 |
| Configure the function of Display the sequence number in Info-center outputs | Optional | 18.2.3 |
| Configure the time stamp type in Info-center outputs | Optional | 18.2.4 |
| Configure the function of outputting Info-center information to terminals | Optional | 18.2.5 |
| Configure the function of outputting Info-center information to the history buffer | Optional | 18.2.6 |
| Configure the function of outputting Info-center information to the flash storage | Optional | 18.2.7 |
| Configure the function of outputting Info-center information to the log host | Optional | 18.2.8 |
| Configure the function of outputting Info-center information to the SNMP agent | Optional | 18.2.9 |
| Configure the module debugging function | Optional | 18.2.10 |

## 18.2.2 Enabling/Disabling the Info-center for the Equipment

In global configuration mode, enable or disable the Info-center function. When the Info-centerfunction is disabled, no information is outputted. By default, the info-center function is enabled

on the equipment.

| Operation | Command | Remarks |
|---|---|---|
| Enter the global configuration mode. | **system-view** | |
| Enable the log output function of the system. | **info-center** | |
| Disable the log output function of the system. | **undo info-center** | |
| Display log configurations of the system. | **display info-center** | |

### 18.2.3  Configure the Function of Display the Sequence Number inInfo-center Outputs

In global configuration mode, set to or not to display the global sequence number in Info-centeroutputs.

| Operation | Command | Remarks |
|---|---|---|
| Enter the global configuration mode. | **system-view** | |
| Enable the function of Display log sequence numbers. | **info-center sequence-numbers** | |
| Disable the function of Display log sequence numbers. | **undo info-center sequence-numbers** | |

### 18.2.4  Configure the Time Stamp Type in Info-center Outputs

In global configuration mode, configure the time stamp type in Info-center outputs. The time stamp type can be set to **notime**, **uptime**, or **datetime**.

The default value is **uptime**.

| Operation | Command | Remarks |
|---|---|---|
| Enter the global configuration mode. | **system-view** | |
| Enable the function of Display the time stamp of logs and configure the time display format. | **info-center timestamps** { **notime** \| **uptime** \| **datetime** } | |
| Restore the default setting of Display the time stamp of logs. | **undo info-center timestamps** | |

### 18.2.5  Configure the Function of Outputting Info-center Information to Terminals

In global configuration mode, configure the information output function, information display function, and filtering rules for outputting Info-center information to terminals. By default, Info-center information is outputted only to the buffer and not outputted to the console or terminal.

| Operation | Command | Remarks |
|---|---|---|
| Enter the global configuration mode. | **system-view** | |

| | | |
|---|---|---|
| Enable the log output function and output logs to the specified terminal. | **info-center monitor** { **all** \| *monitor-num* } | When **monitor-num** is set to **0**, logs are outputted to the console. When **monitor-num** is set to 1–5, logs are outputted to telnet terminals. |
| Disable the function of outputting logs to a or all terminals. | **undo info-center monitor** { **all \|** *monitor-num* } | |
| Return to the privileged mode. | **quit** | |
| Enable the function of Display system information. | **terminal monitor** | Enabled by default,The setting affects only the current login of the current terminal and is invalid for other terminals or the next login |

| | | of the current terminal. |
|---|---|---|
| Disable the function of Display system information to prevent outputting any logs to the current terminal. | **undo terminal monitor** | The setting affects only the current login of the current terminal and is invalid for other terminals or the next login of the current terminal. |
| Configure the filtering rules of logs to be outputted to terminals. Specify the level and module whose logs are outputted to the specified terminal. | **info-center monitor** { **all** \| *monitor-no* } { *level* \| **none** \| **level-list** { *level* [ **to** *level* ] } **&** <1-8> } [ **module** { **xxx \| … ** } * ] | |
| Delete the filtering rules of logs to be outputted to the terminals in the system and restore the default configuration. | **undo info-center monitor** { **all \|** *monitor-no* } **filter** | |

### 18.2.6   Configure the Function of Outputting Info-center Information to

## the History Buffer

In global configuration mode, configure the information output function and filtering rules foroutputting Info-center information to the history buffer. By default, the function is enabled.

| Operation | Command | Remarks |
|---|---|---|
| Enter the global configuration mode. | **system-view** | |
| Enable the function of outputting logs to the buffer. | **info-center buffered** | Enabled by default |
| Disable the function of outputting logs to the buffer. | **undo info-center buffered** | |
| Configure the filtering rules of logs to be outputted to the buffer. Specify the level and module whose logs are outputted to the buffer. | **info-center buffered** { *level* \| **none** \| **level-list** { *level* [ **to** *level* ] } **&** < **1-8** > } [ **module** { xxx \| … } * ] | |
| Delete the filtering rules of logs to be outputted to the buffer in the system and restore the default configuration. | **undo info-center buffered filter** | |

## 18.1.1 Configure the Function of Outputting Info-center Information tothe Flash Storage

In global configuration mode, configure the information output function and filtering rules for outputting Info-center information to the flash storage. By default, Info-center information is notsaved to the flash storage. In addition, the interval of saving Info-center information to the flashstorage cannot be configured and the system saves Info-center information once every 30 minutes by default.

| Operation | Command | Remarks |
|---|---|---|
| Enter the global configuration mode. | **system-view** | |
| Enable the function of outputting logs to the flash storage. | **info-center flash** | |
| Disable the function of outputting logs to the flash storage. | **undo info-center flash** | Disabled by default) |
| Configure the filtering rules of logs to be outputted to the flash storage. Specify the level and module whose logs are outputted to the flash storage. | **info-center flash** { *level* \| **none** \| **level-list** { *level* [ **to** *level* ] } & < 1-8 > } [ **module** { xxx \| ...} * ] | |
| Delete the filtering rules of logs to be outputted to the flash storage in the system and restore the default configuration. | **undo info-center flash filter** | |

## 18.1.2 Configure the Function of Outputting Info-center Information to the Log Host

In global configuration mode, configure the server address, information output function, filtering rules, info-center tool, and fixed source address for outputting Info-center information to the log host.

| Operation | Command | Remarks |
|---|---|---|
| Enter the global configuration mode. | **system-view** | |
| Configure the IP address of the log host. | **info-center** *ip-address* | A maximum of 15 server IP addresses can be configured. |
| Delete the IP address configured for the log host. | **undo info-center** *ip-address* | |
| Enable the function of outputting logs to the specified host. | **info-center host** { **all** \| *ip-address* } | |
| Disable the function of outputting logs to the specified host. | **undo info-center host** { **all \|** *ip-address* } | |

| | | |
|---|---|---|
| Configure the filtering rules of logs to be outputted to the host. Specify the level and module whose logs are outputted to the host. | **info-center host** { **all** \| *ip-address* } { *level* \| **none** \| **level-list** { *level* [ **to** *level* ] } **&** < 1-8 > } [ **module** { xxx \| … } * ] | |
| Delete the filtering rules of logs to be outputted to the host in the system and restore the default configuration. | **undo info-center host** { **all \|** *ip-address* } **filter** | |
| Configure the info-center tool of the system. | **info-center facility** { xxx \| … } | |
| Delete the configured info-center tool name and restore the original setting (**localuse7**). | **undo info-center facility** | |
| Configure the fixed source address of log output. **ip-address** must be set to an interface address of the equipment. | **info-center source** *ip-address* | |
| Disable the function of outputting logs from the fixed source address. | **undo info-center source** | After the function is disabled, logs will be externally |

| | | sent through the existing IP interface addresses in the system. |
| --- | --- | --- |

### 18.1.3 Configure the Function of Outputting Info-center Information tothe SNMP Agent

In global configuration mode, configure the information output function and filtering rules foroutputting Info-center information to the SNMP agent.

To send Info-center information to the SNMP workstation as Trap packets, you must configurethe Trap host address. For details, see SNMP configuration.

By default, the function is disabled.

| Operation | Command | Remarks |
| --- | --- | --- |
| Enter the global configuration mode. | **system-view** | |
| Enable the function of outputting logs to the SNMP agent. | **info-center snmp-agent** | |
| Disable the function of outputting logs to the SNMP agent. | **undo info-center snmp-agent** | |
| Configure the filtering rules of logs to be outputted to the SNMP agent. | **info-center snmp-agent** { *level* | **none** | **level-list** { *level* [ **to** *level* ] } **&** < **1-8** > } | |

| | | |
|---|---|---|
| Specify the level and module whose logs are outputted to the SNMP agent. | [ **module** { xxx \| … } * ] | |
| Delete the filtering rules of logs to be outputted to the SNMP agent in the system and restore the default configuration. | **undo info-center snmp-agent filter** | |

### 18.1.4　Configure the Module Debugging Function

In global configuration mode, enable/disable the module debugging function. By default, themodule debugging function is disabled.

| Operation | Command | Remarks |
|---|---|---|
| Enter the global configuration mode. | **system-view** | |
| Enable the function of outputting the debugging information about the specified module to logs. | **debug** { **all** \| { xxx \| … } * } | |
| Disable the function of outputting the debugging information about the specified module. | **undo debug** { **all** \| { xxx \| …} * } | |
| Display the current configuration of the function of outputting debugging | **display debug** | |

| information. | | |
| --- | --- | --- |