

Chapter 18: Info-center



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Chapter 18 Info-center

18.1 Info-center Overview

As the information center of the system, the Info-center processes and outputs information in a unified 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 information to the specified display device based on information output functions and filtering rules in user configurations.

Info-center information producers (modules outputting information) only need to output information to the Info-center, without concerning whether information needs to be outputted to the 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-center function 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 in Info-center Outputs

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

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	
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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 for outputting 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	

18.2.7 Configure the Function of Outputting Info-center Information to the 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 not saved to the flash storage. In addition, the interval of saving Info-center information to the flash storage 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 { <i>level</i> none level-list { <i>level</i> [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	

18.2.8 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 <i>ip-address</i> }	
Disable the function of outputting logs to the specified host.	undo info-center host { all <i>ip-address</i> }	
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 <i>ip-address</i> } { <i>level</i> none level-list { <i>level</i> [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 <i>ip-address</i> } filter	

Configure the info-center tool of the system.	<code>info-center facility { xxx ... }</code>	
Delete the configured info-center tool name and restore the original setting (localuse7).	<code>undo info-center facility</code>	
Configure the fixed source address of log output. ip-address must be set to an interface address of the equipment.	<code>info-center source ip-address</code>	
Disable the function of outputting logs from the fixed source address.	<code>undo info-center source</code>	After the function is disabled, logs will be externally sent through the existing IP interface addresses in the system.

18.2.9 Configure the Function of Outputting Info-center Information to the SNMP Agent

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

To send Info-center information to the SNMP workstation as Trap packets, you must configure the Trap host address. For details, see SNMP configuration. By default, the function is disabled.

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

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	
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18.2.10 Configure the Module Debugging Function

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