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Chapter 1 Info-Center Instructions

1.1 info-center enable

Command:

info-center enable
no info-center enable

Functions:Information center output enable

Parameters:

Command mode:Global configuration mode

Default:Enable

Usage Guide:

This command is responsible for enabling information center output. The information center can still be configured with or without output enabled. That is, the command is a switch that controls the information output of the information center. Disabling can turn off the information output and the original configuration will still be in effect after enabling again.

Examples:

Switch(config)#info-center enable
 Switch(config)#no info-center enable

1.2 info-center prefix

Command:

info-center (console | logbuffer | monitor | trapbuffer) prefix (on|off)
info-center (logfile <1-4> | loghost <1-8>) prefix (on|off) (member <1-4> |)

Functions:Configure whether to carry the log record prefix

Parameters:

Parameter	Description
console logbuffer monitor logfile <1-4> loghost <1-8> trapbuffer	Represents the output direction to be configured
on off	Switch of carrying the log record prefix
member <1-4>	Member ID

Command mode:Global configuration mode

Default: Enable

Usage Guide:

The command turns on or off the log prefix for each direction. By default, the prefix is on for all directions.

Examples:

Switch(config)# info-center console prefix on

1.3 info-center match

Command: info-center (console | logbuffer | monitor | trapbuffer) match level (emergencies | alerts | critical | errors | warnings | notifications | informational | debugging) (exact |) (keyword WORD |)

info-center (logfile <1-4> | loghost <1-8>) match level (emergencies | alerts | critical | errors | warnings | notifications | informational | debugging) (exact |) (keyword WORD |) (member <1-4> |)

no info-center (console | logbuffer | monitor | trapbuffer) match

no info-center (logfile <1-4> | loghost <1-8>) match (member <1-4> |)

Functions:Configure the output direction log matching condition

Parameters:

Parameter	Description
console logbuffer monitor logfile <1-4> loghost <1-8> trapbuffer	Represents the output direction to be configured
emergencies alerts critical errors warnings notifications informational debugging	Configure the matching information level
exact	Strict level matching
keyword WORD	Use regular expressions as brush selection criteria
member <1-4>	Member ID

Command mode:Global configuration mode

Default: Enable

Usage Guide:

This command sets the matching condition of logs in each direction. Behind match, you can directly configure which level of logs are allowed to enter, and you can also configure exact level matching. So-called strictly match, what grade is set, only match what level, if without exact, the order of matching levels in turn is emergencies, alerts,

critical, errors, warnings, notifications, informational, debugging, also can use the keyword followed a regular expression.

The no command cancels the matching condition for the corresponding output direction.

Examples:

```
Sysname(config)#info-center console match level warnings exact
Sysname(config)#info-center logfile 1 match level errors member 1
```

1.4 info-center output-enable

Command: **info-center (console | logbuffer | monitor | trapbuffer) match level (emergencies | alerts | critical | errors | warnings | notifications | informational | debugging) (exact |) (keyword WORD |)**

info-center (logfile <1-4> | loghost <1-8>) match level (emergencies | alerts | critical | errors | warnings | notifications | informational | debugging) (exact) (keyword WORD |) (member <1-4> |)

no info-center (console | logbuffer | monitor | trapbuffer) match

no info-center (logfile <1-4> | loghost <1-8>) match (member <1-4>)

Functions:Configure the output direction enable

Parameters:

Parameter	Description
console logbuffer monitor logfile <1-4> loghost <1-8> trapbuffer	Represents the output direction to be configured
member <1-16>	Member ID

Command mode:Global configuration mode

Default: Enable

Usage Guide:

This command configures enabling in one of the output directions. Note that this command is only enabling/disabling and does not affect the matching condition or other configuration. When the direction is enabled again, the previously configuration is still valid.

Note that console, monitor, logbuffer, trapbuffer and logfile 4 are enabled by default, and the others are disabled by default. Here logfile 4 is used as the output direction of the default logfile, so it is enabled by default.

Examples:

```
Sysname(config)#info-center monitor output-enable
Sysname(config)#info-center logfile 1 output-enable member 1
```

1.5 info-center record-cmd

Command: info-center (logbuffer | logfile <1-4> | loghost <1-8>) record-cmd
no info-center (logbuffer | logfile <1-4> | loghost <1-8>) record-cmd

Functions:Configure log user execution commands

Parameters:

Parameter	Description
logbuffer logfile <1-4> loghost <1-8>	Represents the output direction to be configured

Command mode:Global configuration mode

Default: Disable

Usage Guide:

This command records user execution commands in a certain direction. Note that the command line recording operation is not bound by the matching condition in that direction and can be recorded as long as the output direction is enabled. User execution commands are not logged by default.

Examples:

Sysname(config)#info-center logbuffer record-cmd

1.6 info-center loghost

Command: info-center loghost <1-8> config (A.B.C.D | X:X::X:X) facility (local0|local1|local2|local3|local4|local5|local6|local7) (member <1-4> |)
no info-center loghost <1-8> config (member <1-4> |)

Functions:Configure the IP and facility of the log host

Parameters:

Parameter	Description
loghost <1-8>	Represents the configuration of loghost output direction
A.B.C.D X:X::X:X	IP address of Log host
local0 local1 local2 local3 local4 local5 local6 local7	Optional facility local0~7
member <1-16>	Member ID

Command mode:Global configuration mode

Default: Disable

Usage Guide:

This command configures the IP address and facility of loghost.

The no command is used to cancel the IP address and facility configuration for the corresponding loghost.

Examples:

Sysname(config)#info-center loghost 1 config 192.168.1.1 facility local0 member 1

1.7 info-center logfile

Command: info-center logfile <1-4> config count <1-40960> (flash|usb|nandflash) WORD (member <1-4> |)

no info-center logfile <1-4> config (member <1-4> |)

Functions:Configure the number of log files and access paths

Parameters:

Parameter	Description
logfile <1-4>	Represents the configuration of logfile output direction
count <1-40960>	The number of log files
flash usb nandflash	Optional access path
WORD	Log file name
member <1-4>	Member ID

Command mode:Global configuration mode

Default: Disable

Usage Guide:

This command configures the number of log files and the access path. For the default logfile, the system uses logfile 4 as the default output direction. If there is a nandflash device, the default storage path is nandflash. Otherwise, the default storage path is flash. In this way, under the default configuration, the log information of the single board before power failure can still be viewed from the mainboard by using the “show info-center logfile” command after the single board is restarted.

The no command is used to cancel the number and access path configuration of the logfile.

Examples:

Sysname(config)#info-center logfile 1 config count 40960 flash logfile.log member 1

1.8 info-center clear

Command: info-center clear trapbuffer

info-center clear logbuffer (member <1-4> |)

Functions:Delete all logs logged by logbuffer or trapbuffer in the information center

Parameters:

Parameter	Description
logbuffer trapbuffer	Optional output direction for clearing log
member <1-4>	Member ID

Command mode:Global configuration mode

Default: Disable

Usage Guide:

This command deletes all logs logged by logbuffer or trapbuffer in the information center.

Examples:

```
Sysname(config)#info-center clear logbuffer member 1
```

```
Sysname(config)#info-center clear trapbuffer
```

1.9 show info-center config

Command: show info-center config

Functions: Display the current configuration of the information center

Parameters:

Command mode:All mode

Default: Disable

Usage Guide:

This command displays all the current configurations of the information center.

Examples:

```
SW1(config)#show info-center config
```

```
info-center enable
```

```
info-center sync enable
```

```
info-center console output-enable
```

```
info-center monitor output-enable
```

```
info-center trapbuffer output-enable
```

```
info-center logbuffer output-enable
```

```
info-center logfile 4 config count 40960 nandflash logfile.log
```

```
info-center logfile 4 output-enable
```

```
info-center console match level warnings
```

```
info-center console prefix on
```

```
info-center monitor match level debugging
```

```
info-center monitor prefix on
```

```
info-center trapbuffer prefix on
```

info-center logbuffer match level warnings
 info-center logbuffer prefix on
 info-center loghost 1 prefix on
 info-center loghost 2 prefix on
 info-center loghost 3 prefix on
 info-center loghost 4 prefix on
 info-center loghost 5 prefix on
 info-center loghost 6 prefix on
 info-center loghost 7 prefix on
 info-center loghost 8 prefix on
 info-center logfile 1 prefix on
 info-center logfile 2 prefix on
 info-center logfile 3 prefix on
 info-center logfile 4 match level warnings
 info-center logfile 4 prefix on

1.10 show info-center logbuffer

Command: `show info-center logbuffer ((keyword WORD)) (member <1-4> |)`

Functions: Display the contents of the logbuffer output direction

Parameters:

Parameter	Description
keyword WORD	Use regular expressions as brush selection criteria
member <1-4>	Member ID

Command mode: All mode

Default: Disable

Usage Guide:

This command displays the contents of the logbuffer output direction, and can be filtered by using regular expressions.

Note that there is no single command for displaying user operation commands, and all the operation commands have been added CMD: characters to the string, which can be used as a keyword for filtering.

Examples:

Sysname(config)#show info-center logbuffer member 1

severity: 1-emergencies 2-alerts 3-critical 4-errors 5-warnings 6-notifications

7-informational 8-debugging


```

Allowed max messages:2000,Current messages:51
51 Jan 25 11:43:21:000 2019 SNR-S2995G-12FX
DEFAULT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state
to UP
50 Jan 25 11:43:20:000 2019 SNR-S2995G-12FX
MODULE_PORT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0/1,
changed state to UP
49 Jan 25 11:43:07:000 2019 SNR-S2995G-12FX
DEFAULT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state
to DOWN
48 Jan 25 11:43:06:000 2019 SNR-S2995G-12FX
MODULE_PORT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0/1,
changed state to DOWN
47 Jan 25 11:38:22:000 2019 SNR-S2995G-12FX
DEFAULT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state
to UP
46 Jan 25 11:38:21:000 2019 SNR-S2995G-12FX
MODULE_PORT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0/1,
changed state to UP
45 Jan 25 11:38:08:000 2019 SNR-S2995G-12FX
DEFAULT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state
to DOWN
44 Jan 25 11:38:07:000 2019 SNR-S2995G-12FX
MODULE_PORT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0/1,
changed state to DOWN
43 Jan 25 11:29:33:000 2019 SNR-S2995G-12FX DEFAULT/2/:System cold restart...
42 Jan 25 11:28:36:000 2019 SNR-S2995G-12FX
DEFAULT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state
to UP
...
----finish show log buffer----
    
```

1.11 show info-center trapbuffer

Command:

Functions:Display the contents of the output direction of the trapbuffer

Parameters:

Parameter	Description
keyword WORD	Use regular expressions as brush selection criteria

Command mode:All mode

Default: Disable

Usage Guide:

This command displays the contents of the trapbuffer output direction, and can be filtered by using regular expressions.

Examples:

```
Sysname(config)#show info-center trapbuffer
severity: 1-emergencies 2-alerts 3-critical 4-errors 5-warnings 6-notifications
7-informational 8-debugging
Allowed max messages:2000,Current messages:44
44 Jan 25 11:43:21:000 2019 SNR-S2995G-12FX
DEFAULT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state
to UP
43 Jan 25 11:43:20:000 2019 SNR-S2995G-12FX
MODULE_PORT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0/1,
changed state to UP
42 Jan 25 11:43:07:000 2019 SNR-S2995G-12FX
DEFAULT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state
to DOWN
41 Jan 25 11:43:06:000 2019 SNR-S2995G-12FX
MODULE_PORT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0/1,
changed state to DOWN
40 Jan 25 11:38:22:000 2019 SNR-S2995G-12FX
DEFAULT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state
to UP
39 Jan 25 11:38:21:000 2019 SNR-S2995G-12FX
MODULE_PORT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0/1,
changed state to UP
38 Jan 25 11:38:08:000 2019 SNR-S2995G-12FX
DEFAULT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state
to DOWN
37 Jan 25 11:38:07:000 2019 SNR-S2995G-12FX
MODULE_PORT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0/1,
changed state to DOWN
36 Jan 25 11:29:33:000 2019 SNR-S2995G-12FX DEFAULT/2/:System cold restart...
35 Jan 25 11:28:36:000 2019 SNR-S2995G-12FX
DEFAULT/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state
to UP
.....
----finish show trap buffer----
```

1.12 show info-center logfile

Command:

Functions:Display the contents of the logfile output direction

Parameters:

Parameter	Description
logfile <1-4>	Optional logfile output direction
keyword WORD	Use regular expressions as brush selection criteria
member <1-4	Member ID

Command mode:All mode

Default: Disable

Usage Guide:

This command displays the contents of the logfile output direction, and can be filtered by using regular expressions.

Note that there is no single command for displaying user operation commands, and all the operation commands have been added CMD: characters to the string, which can be used as a keyword for filtering.

Examples:

```
Sysname(config)#show info-center logfile 1 member 1
severity: 1-emergencies 2-alerts 3-critical 4-errors 5-warnings 6-notifications
7-informational 8-debugging
55 Dec 18 14:47:22:000 2018 S5750E-52X-SI
MODULE_UTILS_FILESYSTEM/2/:fs_write_file 2167: FS_DEV_UNLOCK Slot: 1
dev_name:flash: file_name:flash:/board_web_language
54 Dec 18 14:47:22:000 2018 S5750E-52X-SI
MODULE_UTILS_FILESYSTEM/2/:fs_write_file 2149: FS_DEV_LOCK_NO_WAIT Slot: 1
dev_name:flash: file_name:flash:/board_web_language
53 Dec 18 14:47:16:000 2018 S5750E-52X-SI
MODULE_MANAGEINTF/5/:%LINEPROTO-5-UPDOWN: Line protocol on Interface
Ethernet0, changed state to DOWN
52 Dec 18 14:47:16:000 2018 S5750E-52X-SI
MODULE_MANAGEINTF/5/:%LINK-5-CHANGED: Interface Ethernet0, changed state to
UP
51 Dec 18 14:47:16:000 2018 S5750E-52X-SI DEFAULT/3/:Clock between master and
slave has been synchronized!
50 Dec 18 14:47:15:000 2018 sysname MODULE_VSF_PROTO/2/:topo success! vsf
done 1 state ALIVE master 00-03-0f-aa-aa-ab seq 0 local seq 0
49 Dec 18 14:47:15:000 2018 sysname MODULE_VSF_PROTO/2/:disc success! cpu
num 1 vsf done 0 state TOPO master 00-03-0f-aa-aa-ab seq 0 pri 0x4000207f local seq 0
pri 0x4000207f
48 Dec 18 14:47:15:000 2018 sysname MODULE_VSF_PROTO/2/:Master
00-03-0f-aa-aa-ab mid 1 pri 0x4000207f seq 0
47 Dec 18 14:47:15:000 2018 sysname
MODULE_VSF_PROTO/2/:vsf_proto_handle_start 2448: vsf done 0 local seq 0 pri
0x207f
```

.....

---finish show log file---

1.13 info-center list all disk

Command: info-center list all disk

Functions:View the disks that support storing files in the information center

Parameters:

Command mode:Global configuration mode

Default: Disable

Usage Guide:

This command is used to view the disks that support storing files in the information center. Supported areas can be flash, usb, and nandflash.

Examples:

Sysname(config)# info-center list all disk

flash:

usb:

nandflash:

1.14 info-center save all

Command:

Functions:Onekey collecting function of information center

Parameters:

Parameter	Description
flash usb nandflash	Optional file storage area
WORD	File name

Command mode:Global configuration mode

Default: Disable

Usage Guide:

This command is used for onekey collection in the information center.The collected content is the configuration of the information center, as well as the log information recorded by logbuffer and trapbuffer.When the file path and name are not configured, the collected information is stored in the default area with the default file name.If there is a nandflash device, the default storage path is nandflash, otherwise the default storage path is flash, and the default file name is icsaveall.txt.

Examples:

Sysname(config)# info-center save all flash saveall.log

```
*****Now saving Master card(member 1)*****  
Now saving infocenter all configuration, please wait..  
Now saving infocenter logbuffer content, please wait..  
Now saving infocenter trapbuffer content, please wait..  
*****Master card(member 1) saving finished!*****
```