

EoC Product Command Manual

Catalog

EoC Product Command Manual.....	1
<i>Catalog.....</i>	<i>2</i>
<i>Preface.....</i>	<i>11</i>
Chapter 1 System Foundation.....	1 -
1.1 configuration mode.....	- 1 -
1.1.1 CLI function.....	- 1 -
1.1.2 getting help.....	- 4 -
1.1.3 abbreviation of command.....	- 4 -
1.1.4 Meaning of common prompt information.....	- 5 -
1.1.5 Use history command.....	- 5 -
1.1.6 Line edit shortcut key.....	- 5 -
Chapter 2 General configuration command of Guangda CLI platform.....	5 -
2.1 Mode conversion command.....	- 6 -
2.1.1 enable.....	- 6 -
2.1.2 configure terminal.....	- 6 -
2.1.3 file.....	- 7 -
2.2 common command.....	- 7 -
2.2.1 end.....	- 8 -
2.2.2 help.....	- 9 -
2.2.3 quit.....	- 9 -
2.2.4 ?	- 10 -
2.3 system maintenance command.....	- 11 -
2.3.1 [no] enable password.....	- 11 -
2.3.2 [no] password.....	- 12 -
2.3.3 [no] enable password-encryption.....	- 12 -
2.3.4 [no]terminal timeout.....	- 13 -
2.3.5 [no]terminal length.....	- 13 -
2.3.6 write.....	- 14 -
2.3.7 show product description.....	- 15 -
2.3.8 show running-config.....	- 15 -
2.3.9 show startup-config.....	- 16 -
2.3.10 system reload.....	- 17 -
2.3.11 debug.....	- 18 -

2.3.12 who.....	- 19 -
2.3.13 hostname.....	- 19 -
2.3.14 show hw temperature.....	- 20 -
2.3.15 show process.....	- 20 -
2.3.16 show thread.....	- 21 -
2.3.17 show support.....	- 23 -
2.3.18 show excep.....	- 23 -
2.3.19 support clear.....	- 25 -
2.3.20 excep clear.....	- 26 -
2.4 file mode command.....	- 26 -
2.4.1 profile management.....	- 26 -
2.4.1.1 file.....	- 26 -
2.4.1.2 dir.....	- 27 -
2.4.1.3 del.....	- 27 -
2.4.1.4 type.....	- 28 -
2.4.2 file upgrade command.....	- 29 -
2.4.2.1 update-os.....	- 29 -
2.4.2.2 update-app.....	- 29 -
2.4.2.3 update-boot.....	- 30 -
2.4.2.4 update-oempara.....	- 30 -
2.4.2.5 update-image.....	- 31 -
2.4.2.6 download and upload filesftp-download.....	- 32 -
2.4.2.7 ftp-upload.....	- 32 -
2.4.2.8 update-cfg.....	- 33 -
Chapter 3 link layer commands.....	- 33 -
3.1 equipment alarmsystem monitor.....	- 33 -
3.2 performance monitoring.....	- 34 -
3.2.1 performance-monitor trap.....	- 34 -
3.2.2 performance-monitor attention.....	- 35 -
3.3 loop detection.....	- 35 -
3.3.2 loopdetect.....	- 35 -
3.3.3 loopdetect interval.....	- 36 -
3.3.4 loopdetect restore enable.....	- 37 -
3.3.5 loopdetect restore interval.....	- 37 -
3.3.6 loopdetect restore-cpe.....	- 38 -
3.3.7 show loopdetect.....	- 38 -

3.3.8 fault detectionfch interval.....	- 39 -
3.4 VLAN pool.....	- 40 -
3.4.2 vlan-pool vlan.....	- 40 -
3.4.3 port vlan-pool.....	- 41 -
3.4.4 show vlan-pool port vlan.....	- 41 -
3.4.5 show vlan-pool.....	- 43 -
3.5 black and white list.....	- 43 -
3.5.1black-list.....	- 43 -
3.5.2 white-list.....	- 44 -
3.5.3 anyone.....	- 45 -
3.5.4 show auth-list.....	- 45 -
3.5.5 show unauth-list.....	- 46 -
3.6 CPE WIFI.....	- 47 -
3.6.1 cpe-wifi port vlan-pool.....	- 47 -
3.6.2 cpe-wifi port access-vlan.....	- 47 -
3.6.3 cpe-wifi lan-port mode.....	- 48 -
3.6.4 cpe-wifi user lan-vid.....	- 49 -
3.6.5 cpe-wifi cmcc security.....	- 49 -
3.6.6 cpe-wifi cmcc security wep auth-type.....	- 50 -
3.6.7 cpe-wifi cmcc security wep key-format.....	- 50 -
3.6.8 cpe-wifi cmcc security wep key-id.....	- 51 -
3.6.9 cpe-wifi cmcc security wpa auth-type.....	- 52 -
3.6.10 cpe-wifi cmcc security wpa algorithm.....	- 52 -
3.6.11 cpe-wifi cmcc security wpa psk-key.....	- 53 -
3.6.12 cpe-wifi add wan.....	- 54 -
3.6.13 cpe-wifi wan type.....	- 55 -
3.6.14 cpe-wifi wan rename.....	- 55 -
3.6.15 cpe-wifi delete wan.....	- 56 -
3.6.16 cpe-wifi wan access-vlan.....	- 56 -
3.6.17 cpe-wifi wan vlan-pool.....	- 57 -
3.6.18 cpe-wifi wan priority.....	- 58 -
3.6.19 cpe-wifi mgmt wan acs-access user.....	- 59 -
3.6.20 cpe-wifi mgmt wan acs-access url.....	- 59 -
3.6.21 cpe-wifi mgmt wan acs-remote-access user.....	- 60 -
3.6.22 cpe-wifi mgmt wan acs-remote-access url.....	- 61 -
3.6.23 cpe-wifi wan mtu.....	- 61 -
3.6.24 cpe-wifi wan ip-mode.....	- 62 -

3.6.25 cpe-wifi wan connect-protocol.....	- 63 -
3.6.26 cpe-wifi wan pppoe user.....	- 63 -
3.6.27 cpe-wifi wan ipv4 address.....	- 64 -
3.6.28 cpe-wifi wan ipv4 gateway.....	- 65 -
3.6.29 cpe-wifi wan ipv4 primary dns.....	- 66 -
3.6.30 cpe-wifi wan ipv4 backup dns.....	- 67 -
3.6.31 cpe-wifi wan ipv6 address.....	- 67 -
3.6.32 cpe-wifi wan ipv6 gateway.....	- 68 -
3.6.33 cpe-wifi wan ipv6 primary dns.....	- 69 -
3.6.34 cpe-wifi wan ipv6 backup dns.....	- 69 -
3.6.35 cpe-wifi data wan connect-mode.....	- 70 -
3.6.36 cpe-wifi data wan service-type.....	- 71 -
3.6.37 cpe-wifi data wan bind-interface.....	- 72 -
3.6.38 cpe-wifi mode.....	- 72 -
3.6.39 cpe-wifi ssid-name.....	- 73 -
3.6.40 cpe-wifi ssid-state.....	- 73 -
3.6.41 cpe-wifi wlan.....	- 74 -
3.6.42 show cpe-wifi config mac.....	- 75 -
3.6.43 show wifi-user.....	- 79 -
3.6.44 wifi discover-interval.....	- 80 -
3.6.45 cpe-wifi version-update.....	- 80 -
3.6.46 cpe-wifi reboot mac cnu.....	- 82 -
3.6.47 cpe-wifi delete mac wan.....	- 83 -
3.6.48 cpe-wifi upgrade.....	- 83 -
3.6.49 wifi-cfg auto-apply.....	- 85 -
3.7 CPE template.....	- 85 -
3.7.1 template.....	- 85 -
3.7.2 name.....	- 86 -
3.7.3 show template.....	- 86 -
3.7.4 restart template.....	- 89 -
3.7.5 mac.....	- 89 -
3.7.6 cnu-type.....	- 90 -
3.7.7 default.....	- 91 -
3.8 MAC address aging time configuration of office / terminal.....	- 92 -
3.8.1 aging time-override.....	- 92 -
3.9 headend/ terminal QoS configuration.....	- 92 -
3.9.1 qos buffer-threshold.....	- 92 -

3.9.2 qos classify.....	- 93 -
3.10 Headend / terminal frequency configuration.....	- 94 -
3.10.1 freq-band.....	- 94 -
3.11 Headend / terminal transmission level configuration.....	- 95 -
3.12 Config.....	- 95 -
3.12.1 tx-power.....	- 95 -
3.13 headend / terminal configuration application command.....	- 95 -
3.13.1 apply.....	- 95 -
3.14 basic configuration of headend.....	- 96 -
3.14.1 silence-time.....	- 96 -
3.14.2 igmp-snooping.....	- 97 -
3.14.3 compat.....	- 97 -
3.15 configuration of data interface on the headend.....	- 98 -
3.15.1 port data.....	- 98 -
3.15.2 aging.....	- 98 -
3.15.3 storm-control speed.....	- 99 -
3.15.4 storm-control.....	- 99 -
3.16 EOC interface configuration of headend.....	- 100 -
3.16.1 eoc-port tx-pause {enable disable auto}.....	- 100 -
3.17 headend management command.....	- 101 -
3.17.1 show headend.....	- 101 -
3.17.2 show headend firmware.....	- 101 -
3.17.3 show device data rate.....	- 102 -
3.17.4show device data statistic.....	- 102 -
3.18 terminal storm control.....	- 103 -
3.18.1 storm-control.....	- 103 -
3.19 Terminal port isolation configuration.....	- 104 -
3.19.1 port isolation.....	- 104 -
3.20 terminal 802.1Q configuration.....	- 105 -
3.20.1 8021q.....	- 105 -
3.21 upport configuration on terminal.....	- 106 -
3.21.1 upport mode.....	- 106 -
3.21.2 upport access-vlan.....	- 106 -
3.21.3 upport tx-rate.....	- 107 -

3.21.4 upport rx-rate.....	- 108 -
3.22 terminal user port configuration.....	- 108 -
3.22.1 port.....	- 108 -
3.22.2 port mac-limit.....	- 109 -
3.22.3 port mode.....	- 110 -
3.22.4 port access-vlan.....	- 110 -
3.22.5 port tx-rate.....	- 111 -
3.22.6 port rx-rate.....	- 111 -
3.22.7 port nego.....	- 112 -
3.22.8 port speed.....	- 113 -
3.22.9 port duplex.....	- 113 -
3.22.10 port dot1p.....	- 114 -
3.22.11 port trunk-vlan.....	- 115 -
3.23 terminal management command.....	- 115 -
3.23.1 reboot cpe.....	- 115 -
3.23.2 clear cpe port stat.....	- 116 -
3.23.3 show cpe.....	- 116 -
3.23.4 show mac-address-table.....	- 118 -
3.23.5 show cpe-log.....	- 120 -
3.24 maximum number of online CPEs.....	- 120 -
3.24.1 max-cnu-num.....	- 120 -
3.25 number limit of terminal MACs.....	- 121 -
3.25.1 cnu mac-limit.....	- 121 -
3.25.2 terminal information managementcnu mac.....	- 122 -
3.26 ONU management.....	- 123 -
3.26.1 onu.....	- 123 -
3.26.2 reboot.....	- 123 -
3.26.3 show onu.....	- 124 -
3.27 ORM management.....	- 125 -
3.27.1 orm.....	- 125 -
3.27.2 reboot.....	- 125 -
3.27.3 factory.....	- 126 -
3.27.4 rf equipoise.....	- 127 -
3.27.5 rf attenuation.....	- 127 -
3.27.6 trap optical rx-power.....	- 128 -
3.27.7 trap rf tx-power.....	- 129 -

3.27.8 trap temperature.....	- 129 -
3.27.9 trap enable/disable.....	- 130 -
3.27.10 show orm.....	- 131 -
Chapter 4 configuration command of IP routing module.....	- 132 -
4.1 <i>layer 3 interface configuration command</i>	- 132 -
4.1.1 interface manage-interface.....	- 132 -
4.1.2 interface mgmt.....	- 132 -
4.1.3 [no]ip address.....	- 133 -
4.1.4 [no]vlan.....	- 134 -
4.1.5 show manage-interface.....	- 134 -
4.1.6 show interface.....	- 135 -
4.1.7 ip route.....	- 136 -
4.1.8 show route-table.....	- 137 -
4.1.9 show arp-table.....	- 137 -
4.2 <i>IP layer access control module command</i>	- 138 -
4.2.1 dhcp filter.....	- 138 -
4.2.2 ip-access-list add.....	- 139 -
4.2.3 ip-access-list del.....	- 139 -
4.2.4 ip-access-list clean.....	- 140 -
4.2.5 show ip-access-list.....	- 140 -
Chapter 5 network management configuration command.....	- 141 -
5.1 <i>server network management configuration</i>	- 141 -
5.1.1 snmp-server community.....	- 141 -
5.1.2 snmp-server user.....	- 142 -
5.1.3 snmp-server group.....	- 143 -
5.1.4 snmp-server view.....	- 144 -
5.1.5 snmp-server host.....	- 144 -
5.1.6 snmp-server contact.....	- 145 -
5.1.7 snmp-server location.....	- 146 -
5.1.1 snmp-server trap-authentication.....	- 146 -
5.2 <i>web configuration command</i>	- 147 -
5.2.1 http server start.....	- 147 -
5.2.2 http server stop.....	- 147 -
Chapter 6 Application module configuration command.....	- 148 -

6.1	<i>NTP client</i>	- 148 -
6.1.1	ntp start.....	- 148 -
6.1.2	ntp stop.....	- 148 -
6.1.3	ntp server-ip.....	- 149 -
6.1.4	ntp set-time-zone.....	- 149 -
6.1	<i>system time</i>	- 150 -
6.1.1	show clock.....	- 150 -
6.1.2	clock set.....	- 151 -
6.2	<i>syslog</i>	- 151 -
6.2.1	show syslog.....	- 151 -
6.2.2	clear syslog.....	- 152 -
6.2.3	logging trap.....	- 153 -
6.2.4	logging host ip-address.....	- 154 -
6.2.5	logging facility.....	- 154 -
6.2.6	logging console.....	- 155 -
6.2.7	logging file.....	- 156 -
6.2.8	logging on.....	- 157 -
6.2.9	logging auto-ftp-upload.....	- 157 -
Chapter 7 basic network detection command.....		- 158 -
7.1	telnet.....	- 158 -
7.2	traceroute ip.....	- 159 -
7.3	ping.....	- 160 -
7.4	ssh.....	- 160 -
7.4.1	ip ssh server.....	- 160 -
7.4.2	ip ssh user.....	- 161 -
7.4.3	ip ssh port.....	- 161 -
7.4.4	ip ssh generate-key.....	- 162 -
7.4.5	ip ssh destory-key.....	- 162 -
Chapter 8 local terminal upgrade.....		- 163 -
8.1	<i>headend upgrade</i>	- 163 -
8.1.1	update fw.....	- 163 -
8.1.2	After upgrading, you need to restart the headend.....	- 163 -
8.1.3	update pib.....	- 163 -
8.2	<i>terminal upgrade</i>	- 164 -
8.2.1	auto-update pib cpe.....	- 164 -

8.2.2 auto-update fw cpe.....	- 165 -
8.2.3 ftp-load auto-update-file.....	- 165 -
8.2.4 update fw.....	- 166 -
8.2.5 update pib.....	- 167 -
8.2.6 show auto-update.....	- 167 -

Preface

User guide

This manual describes how to configure through the command line interface EOC product.

Readers

- Network planners
- Technical service personnel
- Network management personnel

Scope of application

This manual is applicable to EOC head end products.

Chapter 1 System Foundation

This chapter mainly describes the basic knowledge of the broad EOC (Ethernet over cable) system, including the preparation of the configuration environment and the related knowledge of the command line interface.

Main contents of this chapter:

- Configuration of EOC
- Introduction to the command line interface (CLI) of Guangda
- Brief introduction to the functions of Guangda EOC products
- Typical application of Guangda EOC products

1.1 configuration mode

Guangda EOC products support the following three typical configurations:

- Use shell command to configure through console port
- Telnet remote login and shell configuration
- Configuration through SNMP network management
- Configuration through web browser

This user manual is used to describe the configuration methods of console and telnet login shell. Later chapters will describe the shell usage and EOC configuration command in detail.

1.1.1 CLI function

In order to facilitate the user to manage the device, gdec EOC products provide a friendly command-line configuration interface (CLI) and a command-line operation interface familiar to network engineers. The main functions include:

- Command line editing;
- Command line help;
- Command syntax navigation;
- Command syntax analysis;
- Command execution;
- Command line editing: provides the function of editing by line, and provides a variety of hotkeys to help users edit the command line;
- Command line help: you can input the "?" Character at any time in the editing process of the command line to get help about the meaning of the command you are entering and how to use it;
- Command syntax navigation: this function is used for fast command input. After entering some prefix letters of the command, press tab key shell to search according to the prefix, find out the command related to the prefix to guide the user to enter the command;
- Command syntax analysis: automatically check whether the command syntax is correct, and the wrong command will not be executed by CLI.

1.1. 2 CLI mode

The CLI interface of Guangda EOC device is divided into several command modes (referred to as modes). Different modes have different commands to complete the configuration of various functions.

CLI has different prompts in different command modes. The list of command modes of Guangda EOC products is as follows (assuming that the host name is the system default string“ GD.LINK ”) :

Prompt	mode	access method	exit method	function description
GD.LINK>	User mode	console: Enter this mode automatically after power on.	console: Execute the exit command to exit and automatically reapply the application.	
		telnet: Enter this mode after successful login.	telnet: Execute the exit command to disconnect telnet.	
GD.LINK#	Privileged mode	Execute enable command in user mode	Execute the exit command to return to user mode.	In this mode, various display and debugging commands are provided. And commands to enter “file system configuration mode” and “global configuration mode”.
			Execute the configure terminal command to enter global configuration mode.	
			Execute the file command to enter the file system configuration mode.	
GD.LINK(config)#	Global configuration mode	Execute the configure terminal command in privileged user mode	Execute the exit command to return to privileged mode.	Configure global parameters required for system operation.
			Execute the interface manage interface command to enter the interface configuration	

			mode.	
			Execute the headend command to enter the EOC header configuration mode.	
			Execute the template name command to enter the template configuration mode	
GD.LINK(config-headend)#	EOC head configuration mode	Execute the headend command in global configuration mode.	Execute the exit command to return to global configuration mode.	Configure EOC header parameters.
GD.LINK(config-template<name >)#	Template configuration mode	Execute the template command in global configuration mode	Execute the exit command to return to global configuration mode.	Configure templates for EOC
GD.LINK(cpe)#	CPE operation mode	Execute cpe command in global configuration mode.	Execute the exit command to return to global configuration mode.	Operate on CPE.
GD.LINK(file)#	File system configuration mode	Execute the file command in privileged user mode.	Execute the exit command to return to global configuration mode.	System remote upgrade.
GD.LINK(config-if)#	Management interface configuration mode	Execute the interface manage interface command in global configuration mode.	Execute the exit command to return to global configuration mode.	Configure the IP address, address mask and VLAN of the management interface.

1.1.2 getting help

The user can enter the question mark key (?) at the command prompt to list the commands supported by each functional mode. You can also use the following command writing method to get help information for a command:

Command	explain
Help command	In each mode, you can enter this command to get help information about normal shell operations.
? command	? The command can have the following formats:
	Type directly? : view all commands in the current mode.
	Type command prefix <? > to find the commands that start with this command prefix in the current mode.
	For example: GD.LINK# s<?>
	show show clink statics
	system system control tools.
	Type the command keyword <? > to find subsequent parameters for the current command.
	eg: GD.LINK# ping <?>
	A.B.C.D Host ip address
Command prefix<TAB>	Auto fill command keywords.
	eg: GD.LINK# p<TAB>
	GD.LINK# ping
	If a command prefix corresponds to multiple commands, the shell lists all the optional commands to prompt the user for input.
	eg: GD.LINK# s<TAB>
	show system
	The shell in the above example lists two commands prefixed with 's'.

1.1.3 abbreviation of command

The Guangda cli allows the user to enter abbreviated commands. As long as shorthand can distinguish the only command keyword, CLI can automatically find the right command to execute.

For example, the show running config command can be abbreviated to:

GD.LINK# show run

If the command entered is not enough for the CLI to find a unique result, the system will print% ambient command. To prompt the user.

For example: GD.LINK# S R

% Ambiguous command

1.1.4 Meaning of common prompt information

- % Ambiguous command: the system found multiple commands corresponding to the shorthand commands entered by the user.
- % Command incomplete: command input is not complete.
- % Unknown command: the command key entered by the user is incorrect.

1.1.5 Use history command

The system records the last ten records of input commands. You can use Ctrl + P or up, and Ctrl + n or down to scroll through history commands.

1.1.6 Line edit shortcut key

For command line editing, you can use the following shortcut keys to edit the command line or control the cursor:

Function	Shortcut Key	Explain
Move Cursor	Left arrow key or Ctrl + B	Cursor left
	Right arrow or Ctrl + F	Cursor right
	Ctrl+A	Cursor back to the beginning of the command line
	Ctrl+E	Move cursor to end of command line
Delete characters entered	Backspace key	Delete a character to the left of the cursor
	Deletekey	Delete character at cursor position
Screen scroll control	Any key	Page down
	q key	Exit scrolling

Chapter 2 General configuration command of Guangda CLI platform

This chapter describes the general configuration commands of Guangda cli, including the configuration commands for the following functions:

- Mode conversion command
- Commands common to all modes

- System maintenance command
- File mode command

2.1 Mode conversion command

This section describes how to enter various command modes of Guangda EOC products.

Mode conversion commands include:

- enable
- configure terminal
- file

2.1.1 enable

【Command description】

Enter the privileged mode from the user mode, and enter the privileged mode with the correct password.

【Parameter description】

NO

【Command mode】

User mode

【Default】

The default password for the system is admin。

【Use guide】

NO

【example】

NO

【Related command】

enable password-encryption

enable password

【Special notes】

NO

2.1.2 configure terminal

【Command description】

Most commands of the system are in global configuration mode, such as headend, user, interface and so on.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# configure terminal

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

2.1.3 file

【Command description】

Enter file operation mode from privilege mode, where you can maintain (view, delete, etc.) the files (such as configuration files) used by the system startup.conf , and can execute system upgrade command.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# file

GD.LINK(file)#

【Related command】

NO

【Special notes】

NO

2.2 common command

This section describes the commands common to all modes of Guangda EOC products, including:

- exit
- end
- help
- quit
- ?

- exit

【Command description】

Exit the current command mode and return to the previous command mode (for example, if you are in global configuration mode now, after you enter exit, you will go back to enable privilege mode).

【Parameter description】

NO

【Command mode】

All mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)# exit

GD.LINK#

【Related command】

NO

【Special notes】

NO

2.2.1 end

【Command description】

No matter which command mode the user is currently in, you can use this command to return to privilege mode

【Parameter description】

NO

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)# end

GD.LINK# end

【Related command】

NO

【Special notes】

NO

2.2.2 help

【Command description】

Print basic help information for the CLI.

【Parameter description】

NO

【Command mode】

All mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# help

Shell provides advanced help feature. When you need help, anytime at the command line please press '?'.
If nothing matches, the help list will be empty and you must backup until entering a '?' shows the available options.

Two styles of help are provided:

1. Full help is available when you are ready to enter a command argument (e.g. 'show ?') and describes each possible argument.
2. Partial help is provided when an abbreviated argument is entered and you want to know what arguments match the input (e.g. 'show me?').

【Related command】

NO

【Special notes】

NO

2.2.3 quit

【Command description】

Exits the current command mode and returns to the previous command mode.

【Parameter description】

NO

【Command mode】

All mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# quit

GD.LINK>

【Related command】

NO

【Special notes】

NO

2.2.4 ?

【Command description】

Displays all the sub command information in the current mode to help the user find related sub commands.

【Parameter description】

NO

【Command mode】

All mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# ?

debug	Debugging functions (see also 'undebug')
undebug	Disable debugging functions (see also 'debug')
clear	clear information
configure	Configuration from vty interface
disable	Turn off privileged mode command
end	End current mode and change to enable mode.
exit	Exit current mode and down to previous mode
file	file operation
help	Description of the interactive help system
ping	Send echo messages
quit	Exit current mode and down to previous mode
restart	Restart all CPEs bound to the template
show	Show running system information
system	system control tools.
telnet	Open a telnet connection
traceroute	Trace route to destination
who	Show telnet users
write	Write running configuration to memory, network, or terminal

【Related command】

NO

【Special notes】

NO

2.3 system maintenance command

This section describes some common NC maintenance commands on Guangda EOC office products, including system configuration file maintenance, system restart, system debugging, system display and other commands:

- terminal timeout
- terminal length
- write
- show running-config
- show startup-config
- system reload
- debug
- who
- hostname
- show hw temperature
- show process
- show thread
- show support
- show excep

2.3.1 [no] enable password

【Command description】 Configure the password to enter the terminal privilege mode.

【Parameter description】

enable password *password*: Configure the password to enter the terminal privilege mode. Password is a password character use no enable password to delete the configured password and restore it to the default value.

【Command mode】

Configuration mode

【Default】

admin。

【Use guide】

NO

【example】

GD.LINK(config)# enable password 123456

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

2.3.2 [no] password

【Command description】 Configure the password of Telnet office device.telnet

Password of the office device

【Parameter description】

password *password*: Configure the password of Telnet office device. Password is a password character

Use no password to delete the configured password and restore it to the default value

【Command mode】

Configuration mode

【Default】

admin

【Use guide】

NO

【example】

GD.LINK(config)# password 123456

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

2.3.3 [no] enable password-encryption

【Command description】 Encryption displays and stores the password for entering privileged mode and telnet password.

【Parameter description】

NO

Use **no enable password encryption** to display the password entering privilege mode and telnet password without encryption

【Command mode】

Configuration mode

【Default】

No encryption.

【Use guide】

NO

【example】

GD.LINK(config)# enable password-encryption

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

2.3.4 [no]terminal timeout

【Command description】

Configure terminal timeout: when the terminal does not hit the key for more than the configured value, the console terminal will automatically exit to the user mode, and the telnet terminal will automatically disconnect.

【Parameter description】

terminal timeout seconds <0-86400> : Configure the terminal timeout. Seconds indicates the number of seconds to timeout. If it is set to 0, the timeout will not occur;

Use **no terminal timeout** to delete the configured time.

【Command mode】

Configuration mode

【Default】

60s。

【Use guide】

NO

【example】

GD.LINK(config)# no terminal timeout

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

2.3.5 [no]terminal length

【Command description】

Configure the maximum number of lines displayed by the terminal at one time.

【Parameter description】

terminal length *lines* <0-512>: Configure the maximum number of lines displayed by the terminal at one time. Lines indicates the maximum number of lines to display at a time. If it is set to 0, it will not be limited;**no terminal length**: Restore the default display lines of the terminal.

【Command mode】

Configuration mode

【Default】

no terminal length, The default value for the system is 100 rows.

【Use guide】

NO

【example】

GD.LINK(config)# no terminal length

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

2.3.6 write

【Command description】

Saves the current system configuration to the file system's startup script file. The startup script file is stored in the non-volatile memory. When the application is started, the shell will execute the commands in the startup script line by line to automatically configure the system.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# write

GD.LINK#

【Related command】

show startup-config

show running-config

【Special notes】

NO

2.3.7 show product description

【Command description】 Displays product description information.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show product description

Product description: ca5202s for FuJian.

【Related command】

NO

【Special notes】

NO

2.3.8 show running-config

【Command description】 Displays the current system configuration.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show running-config

configure terminal

snmp community aaa

snmp server start

snmp sccn trap enable

sccn online mode disable

http server start

ntp set-time-zone GMT

ntp server-ip 1.1.1.1

exit

```
configure terminal
end
```

```
configure terminal
interface manage-interface
ip address 192.168.1.1 255.255.255.0
exit
end
```

```
configure terminal
headend
exit
end
```

```
end
```

【Related command】

```
show startup-config
write
```

【Special notes】

This command only generates scripts according to the current system configuration. The configuration only exists in the system memory and has not been saved to the startup script file.

2.3.9 show startup-config

【Command description】

This command displays the contents of a script file that has been saved to non-volatile memory. What is displayed is the command that the application will execute when it starts again.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

```
GD.LINK# show startup-config
```

@GuangDa NC configuration saved at 1970/01/01 09:36:20

```
configure terminal
snmp community aaa
snmp server start
snmp sccn trap enable
sccn online mode disable
http server start
exit
```

```
configure terminal
end
```

```
configure terminal
interface manage-interface
 ip address 192.168.1.1 255.255.255.0
exit
end
```

```
configure terminal
headend
exit
end
```

```
end
```

【Related command】

```
show running-config
write
```

【Special notes】

NO

2.3.10 system reload

【Command description】

Reboot the system. The last saved startup script will be executed when the application starts, and the current unsaved configuration information will be lost.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# system reload

The system is going down NOW!

Sent SIGTERM to all processes

Sent SIGKILL to all processes

Requesting system reboot

Restarting system.

【Related command】

NO

【Special notes】

NO

2.3.11 debug

【Command description】

Debugging command is used by the technical service personnel of the equipment supplier to view the debugging information of each functional module. The general user does not need to care about this command.

【Parameter description】

debug *function*: Turn on debugging for a function. The function parameter indicates the function module to be debugged. After executing the command, the debugging information of the function module will be printed on the terminal;

undebug *function*: Turn off debugging of a function module. The function parameter indicates the function module to be debugged.

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# debug console

GD.LINK#

【Related command】

NO

【Special notes】

NO

2.3.12 who

【Command description】

View the connected terminal information on this device.

【Parameter description】

This command is used to display all online virtual terminal information on this device. The console terminal does not have an IP address, so the address bar is null.

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# who

Telnet users information: 0 users connect

【Related command】

NO

【Special notes】

NO

2.3.13 hostname

【Command description】

Sets the name of the device.

【Parameter description】

hostname word: Name of configuration equipment;

no hostname: Restore the default device name.

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

NO

【Related command】

NO

【Special notes】

NO

2.3.14 show hw temperature

【Command description】

show hw temperature: Display hardware temperature

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show hw temperature

hardware temperature: 35.500 centigrade

GD.LINK#

【Related command】

NO

【Special notes】

NO

2.3.15 show process

【Command description】

show process: Display system process information, including process name, process ID, process status, scheduling times, number of threads and other information.

【Parameter description】

NO

【Command mode】

Enable mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show process

PID	NAME	STAT	PRIO	SCHED	TIME[S/U]	VMSIZE	PHSIZE	EIP	STACK	THREAD
CPU										
1	init	R	20	167	1808/0	003c1000	000000ba	0fe1141c	bfd68f90 1	0.0
2	kthreadd	R	20	27	0/0	00000000	00000000	00000000	00000000 1	0.0
3	ksoftirqd/0	R	20	368	1/0	00000000	00000000	00000000	00000000 1	4.1

4	kworker/0:0	R	20	4	0/0	00000000 00000000 00000000 00000000 1	0.0
5	kworker/u:0	R	20	4	0/0	00000000 00000000 00000000 00000000 1	0.0
6	rcu_kthread	R	-2	2465	137/0	00000000 00000000 00000000 00000000 1	78.1
7	khelper	R	0	2	0/0	00000000 00000000 00000000 00000000 1	0.0
8	sync_supers	R	20	42	0/7	00000000 00000000 00000000 00000000 1	0.7
9	bdi-default	R	20	4	0/13	00000000 00000000 00000000 00000000 1	0.0
10	kblockd	R	0	2	0/0	00000000 00000000 00000000 00000000 1	0.0
11	kswapd0	R	20	3	0/0	00000000 00000000 00000000 00000000 1	0.0
12	fsnotify_mark	R	20	2	0/0	00000000 00000000 00000000 00000000 1	0.0
13	crypto	R	0	2	0/0	00000000 00000000 00000000 00000000 1	0.0
17	mtdblock0	R	20	2	0/0	00000000 00000000 00000000 00000000 1	0.0
18	mtdblock1	R	20	2	0/0	00000000 00000000 00000000 00000000 1	0.0
19	mtdblock2	R	20	2	0/0	00000000 00000000 00000000 00000000 1	0.0
20	mtdblock3	R	20	2	0/0	00000000 00000000 00000000 00000000 1	0.0
21	mtdblock4	R	20	2	0/0	00000000 00000000 00000000 00000000 1	0.0
22	mtdblock5	R	20	2	0/0	00000000 00000000 00000000 00000000 1	0.0
23	mtdblock6	R	20	2	0/0	00000000 00000000 00000000 00000000 1	0.0
24	kworker/u:1	R	20	10	0/0	00000000 00000000 00000000 00000000 1	0.0
27	gef_nstk_rx	D	20	43	0/0	00000000 00000000 00000000 00000000 1	0.0
38	kworker/0:1	R	20	486	8/0	00000000 00000000 00000000 00000000 1	16.6
39	flush-1:0	R	20	77	39/0	00000000 00000000 00000000 00000000 1	0.0
52	jffs2_gcd_mtd5	R	30	7	0/0	00000000 00000000 00000000 00000000 1	0.0
54	init_main	R	20	7	0/0	003c1000 000000a4 0fe1141c bff80420 1	0.0
55	netmain	R	20	329	216/152	11e5f000 00000834 0fbf792c bf890d80 35	0.0
73	snmpd	R	20	263	12/16	00645000 000001be 0fc22e88 bfbef060 1	0.3
116	dropbear	R	20	3	0/0	004fa000 000000a4 0fd38e88 bff49540 1	0.0

GD.LINK#

【Related command】

NO

【Special notes】

NO

2.3.16 show thread

【Command description】

show thread: Display the thread information in the main process, including thread name, thread ID, thread status, scheduling times and other information.

【Parameter description】

NO

【Command mode】

Enable mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show thread

TID	NAME	STAT	PRIO	SCHED	TIME[S/U]	EIP	STACK	CPU
55	netmain	R	20	329	37/60	0fbf792c bf890d80	0.0	
56	watchdog	R	20	364	4/0	0fbf792c 4882dad0	2.1	
58	sdm	R	20	9333	189/88	0fbf792c 49083ce0	49.6	
74	slog-rx-task	R	20	1	0/0	0fc2bb28 49883cb0	0.0	
75	slog-timer-task	R	20	362	3/1	0fbf792c 4a083b30	2.2	
76	snmpTrapMgmtTas	R	20	42	0/0	0fc2bb28 4a883cf0	0.0	
77	snmpTrapPktTask	R	20	39	0/0	0fc22ed4 4b073e70	0.0	
78	gd_timer	R	20	590	9/2	0fbf792c 4b883b50	3.6	
101	netmain	R	20	368	19/1	0fbf792c 4c083b40	2.3	
106	NC15	R	20	179	2/0	0fc22ed4 4c8834b0	1.1	
107	flow_monitor_sa	R	20	1	0/0	0ffd39c4 4d083c90	0.0	
108	flow_monitor_se	R	20	2	0/0	0ffd39c4 4d883bb0	0.0	
109	auto_update_mon	R	20	119	0/0	0fbf792c 4e083b30	0.6	
117	telnet	R	20	143	1/0	0fbf792c 4e883a20	0.9	
118	__loopd_tx_task	R	20	357	2/1	0fbf792c 4f083b40	2.2	
119	__loopd_rx_task	R	20	72	0/0	0fc22ed4 4f883c60	0.4	
120	loopd_msg_task	R	20	1	0/0	0fc2bb28 50083cc0	0.0	
121	__loopd_restore	R	20	357	1/2	0fbf792c 50883b40	2.2	
122	__loopd_monitor	R	20	357	2/1	0fbf792c 51083b40	2.2	
123	cluster_timer	R	20	357	2/1	0fbf792c 51883b50	2.2	
124	cluster_pkt	R	20	72	0/0	0fc22ed4 52083c40	0.4	
125	cluster_config_	R	20	179	1/0	0fbf792c 528838c0	1.1	
126	vlan_pool_timer	R	20	357	3/2	0fbf792c 53083b30	2.2	
127	wifi_manage_rec	R	20	72	0/0	0fc22ed4 53883c40	0.4	
128	wifi_manage_msg	R	20	1	0/0	0fc2bb28 54083cd0	0.0	
129	ntp	R	20	36	0/0	0fbf792c 54883ab0	0.2	
130	ftp_worker	R	20	180	0/1	0fbf792c 55083a90	1.1	
131	netmain	R	20	12	0/0	0fbf792c 55883b30	0.0	

136	http_main	R	20	367	4/1	0fc22ed4 56083cb0 2.1
139	keepalive	R	20	71	0/0	0fbf792c 5687c5f0 0.4
140	yasnmplibagent	R	20	310	12/13	0fc22ed4 57083c60 0.3
141	upgrade_stub	R	20	1	0/0	0fc2bb28 57883a70 0.0
142	sccn_stub	R	20	1	0/0	0fc2bb28 58083ca0 0.0
143	alm_stub	R	20	37	0/0	0fbf792c 58883af0 0.2
144	console	R	20	777	30/16	0fc1b168 59081cd0 18.8

GD.LINK#

2.3.17 show support

【Command description】

show support: Display information diagnosis information, including system process information, process address space information, thread information, main process related module information.

【Parameter description】

show support [*record*]

record: Save the collected diagnostic information to the file system;

If the norecord parameter, the collected diagnostic information is printed directly to the serial port.

【Command mode】

Enable mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show support

//version

//process info

//thread info

//module info

GD.LINK#

2.3.18 show excep

【Command description】

show excep: View the device exception record.

【Parameter description】

NO

【Command mode】

Enable mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show excep

-----START(IDX:1,SIZE:2075)-----

#####

FATAL ERROR - (Thu Jan 1 08:19:15 1970)

CAUSE: address not mapped to object

ACTION: reset

VERSION: hard(5.0),soft(26611)

TASK: 144(console)

EIP:10006620

REGISTERS:

GPR[00]:00000000	GPR[01]:59082380	GPR[02]:5908b920	GPR[03]:48846ce8
GPR[04]:0000000c	GPR[05]:102d7f47	GPR[06]:00000000	GPR[07]:00000000
GPR[08]:00000000	GPR[09]:48846cf3	GPR[10]:102d7f46	GPR[11]:59082230
GPR[12]:44002424	GPR[13]:103ebd6c	GPR[14]:00000002	GPR[15]:590825e0
GPR[16]:10edbeb0	GPR[17]:10325ce0	GPR[18]:10325c6b	GPR[19]:103b173f
GPR[20]:10325d07	GPR[21]:10325bfa	GPR[22]:103b09ea	GPR[23]:00000000
GPR[24]:00000000	GPR[25]:00000001	GPR[26]:102d7f3f	GPR[27]:102d7f47
GPR[28]:00000000	GPR[29]:0000000b	GPR[30]:00000001	GPR[31]:590823b8

EIP:10006620 LINK:10006600 MSR:0000d032 CCR:44002428 XER:20000000

CTR:00000000 ORG3:00000000 DAR:00000000 DSI:20000000 TRP:00000300

BACKTRACE:

[10006600]<?>

[1000e0d4]<?>

[10254b94]<?>

[10256920]<?>

[10257400]<?>

[0ffcf298]<?>

[0fc2a5b8]<clone>

STACK:

```

59082380: 590823b0 10006600 103b0000 00000000
59082390: 00000001 00000001 00000000 00000000
590823a0: 0000000c 00000000 00000004 48846ce8
590823b0: 590823e0 1000e0d4 0000000c 0000000b
590823c0: 48846ce8 1025bbf0 00000000 59082830
590823d0: 10de59d8 10edbc40 00000003 10edbee8
590823e0: 59082490 10254b94 10edbf08 10edbf18
590823f0: 10325d07 590824a9 00000000 10edbf18
59082400: 00000001 10edbf18 00000004 10edbc40
59082410: 59082430 1025b9d4 00000010 0fcca59c
59082420: 59082440 0fbce374 00000002 10edbc40
59082430: 59082440 1025c050 10edbc40 00000002
59082440: 59082460 1025c0e8 00000001 10edbf18
59082450: 00000001 59084944 590824aa 10edbc40
59082460: 59082490 10251730 10edbc40 59082830
59082470: 10632be8 10325d0f 59084480 590825d8

```

-----TAIL(IDX:1,SIZE:2075)-----

GD.LINK#

2.3.19 support clear

【Command description】

support clear: Clear the diagnostic information recorded by the device

【Parameter description】

NO

【Command mode】

Enable mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# support clear

Clear support OK

GD.LINK#

2.3.20 excep clear

【Command description】

excep clear: Clear the device exception record information.

【Parameter description】

NO

【Command mode】

Enable mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# excep clear

Clear exception OK

GD.LINK#

2.4 file mode command

This section describes the file management of Guangda EOC product file. In privileged mode, you can enter this mode by using the file command. Management interface configuration commands include:

- Configuration file management
- File upgrade command
- File download and upload

2.4.1 profile management

2.4.1.1 file

【Command description】

file: Enter file operation mode.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK#

GD.LINK# file

GD.LINK(file)#

【Related command】

NO

【Special notes】

NO

2.4.1.2 dir

【Command description】

dir: Displays which files are currently available.

【Parameter description】

NO

【Command mode】

File operation mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK#

GD.LINK# file

GD.LINK(file)# dir

185 Bytes	group
0 Bytes	eoc_log
996 Bytes	startup.conf
328 Bytes	passwd
7918464 Bytes	snmp_data

GD.LINK(file)#

【Related command】

NO

【Special notes】

NO

2.4.1.3 del

【Command description】

del *FILENAME*: Delete a file

【Parameter description】

FILENAME: The full name of the file to delete. 【Command mode】

File operation mode.

【Default】

NO

【Use guide】

NO

【example】

GD.LINK#

GD.LINK# file

GD.LINK(file)# del passwd

GD.LINK(file)#

【Related command】

NO

【Special notes】

NO

2.4.1.4 type

【Command description】

type *FILENAME*: Displays the type of a file.

【Parameter description】

FILENAME: The name of the file to display.

【Command mode】

File operation mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(file)# type group

root:*.0:root

bin:*.1:root,bin,daemon

daemon:*.2:root,bin,daemon

sys:*.3:root,bin

tty:*.5:

disk:*.6:root

lp:*.7:daemon

mem:*.8:

kmem:*.9:

ftp:*.50:

nobody*:99:

users*:100:

sshd:x:74:

GD.LINK(file)#

【Related command】

NO

【Special notes】

NO

2.4.2 file upgrade command

2.4.2.1 update-os

【Command description】 Upgrade the operating system.

【Parameter description】

update-os *A.B.C.D WORD1 WORD2 FILENAME*

A.B.C.D: IP address of the FTP server where the version is stored;

WORD1: ftp login user name;

WORD2: ftp login password;

FILENAME: full name of upgrade file

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(file)#**update-os** *1.1.1.1 a a eoc8308-kernel.bin*

【Related command】

NO

【Special notes】

NO

2.4.2.2 update-app

【Command description】

Upgrade application master

【Parameter description】

update-app *A.B.C.D WORD1 WORD2 FILENAME*

A.B.C.D: IP address of the FTP server where the version is stored;

WORD1: FTP login user name;

WORD2: FTP login password;

FILENAME: Full name of upgrade file;

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(file)#update-app 192.168.1.1 abc abc eoc8308-ramdisk.bin

【Related command】

NO

【Special notes】

NO

2.4.2.3 update-boot

【Command description】

Upgrade the boot file.

【Parameter description】

update-boot *A.B.C.D WORD1 WORD2 FILENAME*

A.B.C.D: IP address of the FTP server where the version is stored;

WORD1: FTP login user name;

WORD2: FTP login password;

FILENAME: Upgrade filename.

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(file)#update-boot 192.168.1.1 abc abc eoc8308-boot.bin

【Related command】

NO

【Special notes】

NO

2.4.2.4 update-oempara

【Command description】 Upgrade OEM files.

【Parameter description】

update- oempara *A.B.C.D WORD1 WORD2 FILENAME*

A.B.C.D: IP address of the FTP server where the version is stored;

WORD1: FTP login user name;

WORD2: FTP login password;

FILENAME: FTP login password;

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(file)#update-oempara 192.168.1.1 abc abc eoc8308-oem.bin.ca5202s

【Related command】

NO

【Special notes】

Unlike using update OEM under boot, using this command to upgrade OEM parameters does not change the MAC address of the system.

2.4.2.5 update-image

【Command description】

Upgrade the entire image package (including OS / APP / boot / oempara, a product has a separate image package) or instb package (including OS / APP / oempara, which can be automatically adapted and upgraded according to the product OEM type).

【Parameter description】

update- image *A.B.C.D WORD1 WORD2 FILENAME*

A.B.C.D: IP address of the FTP server where the version is stored;

WORD1: FTP login user name;

WORD2: FTP login password;

FILENAME: Upgrade filename.

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(file)#**update-image** 192.168.1.1 abc abc CDGD-3.2.1-r32059-ca5202-image.bin

【Related command】

NO

【Special notes】

NO

2.4.2.6 download and upload filesftp-download

【Command description】

Download the file to the local device.

【Parameter description】

ftp-download ip-address *word1* *word2* *filename*

word1: User name of FTP server;

word2: Password for FTP server

filename : File name.

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(file)#**ftp-download** 192.168.1.1 abc abc *test.bin*

【Related command】

NO

【Special notes】

NO

2.4.2.7 ftp-upload

【Command description】 Upload files to the server.

【Parameter description】

ftp-upload ip-address *word1* *word2* *filename*

word1: User name of FTP server;

word2: Password for FTP server

filename : File name.

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(file)#**ftp-upload** 192.168.1.1 abc abc *startup.conf*

【Related command】

NO

【Special notes】

NO

2.4.2.8 update-cfg

【Command description】

Download the configuration file on the server to the system.

【Parameter description】

update-cfg ip-address *word1 word2 filename*

word1: User name of FTP server;

word2: Password of FTP server;

filename : File name.

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(file)#**update-cfg** 192.168.1.1 abc abc startup.conf

【Related command】

NO

【Special notes】

NO

Chapter 3 link layer commands

3.1 equipment alarmsystem monitor

【Command description】

system monitor (*enable | disable*)

Turn on or turn off the local equipment alarm (only for MIB alarm defined by radio and television).

【Parameter description】

enable: Turn on the trap alarm function of the local equipment;

disable: Turn off trap alarm function of local equipment.

【Command mode】

Global configuration mode

【Default】

enable

【Use guide】

NO

【example】

GD.LINK# configure terminal

GD.LINK(config)# system monitor disable

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

3.2performance monitoring

3.2.1 performance-monitor trap

【Command description】

performance-monitor trap (*enable | disable*)

Turn on or off the performance monitoring trap alarm function. The monitoring types of performance monitoring include: CPU monitoring, memory monitoring, up / down flow monitoring of the whole machine at the local terminal, average up / down flow monitoring of the online terminal, and online number monitoring of CPE. When it is found that the current value exceeds the threshold value three times in a row, a trap alarm will be sent to the network management server

【Parameter description】

enable: Turn on the trap alarm function of performance monitoring;

disable: Turn off the trap alarm function of performance monitoring.

【Command mode】

Global configuration mode

【Default】

disable

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# performance-monitor trap enable

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

3.2.2 performance-monitor attention

【Command description】

performance-monitor attention (*enable | disable*).

Turn on or off the focus function of performance monitoring. The performance concern function will send the uplink / downlink rate collected regularly to the NMS server

【Parameter description】

enable: Turn on the attention function of performance monitoring;

disable: Turn off the performance monitoring attention function.

【Command mode】

Global configuration mode

【Default】

disable

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# performance-monitor attention enable

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

3.3 loop detection

3.3.2 loopdetect

【Command description】

loopdetect (*enable|disable*): Turn on / off the loop detection function of the terminal.

【Parameter description】

enable: Turn on loop detection;

disable: Turn off loop detection;

【Command mode】

Template Configuration mode

【Default】

Turn on

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# loopdetect enable

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.3.3 loopdetect interval

【Command description】

loopdetect interval <1-300>: Global loop detection interval

no loopdetect interval: *The cycle of global recovery loop detection is the default value;*

loopdetect interval (1|10|100|300): Set the loop detection interval of the terminal in the template configuration mode.

【Parameter description】

<1-300>: Cycle detection interval of global loop detection, unit: second;

(1|10|100|300): Loop detection interval of terminal, unit: s.

【Command mode】

Global / templateConfiguration mode

【Default】

Global loop detection interval default: 1 second.

Terminal loop detection interval default: 10 seconds

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# loopdetect interval 20

GD.LINK(config)#

【Related command】

NO

【Special notes】

loopdetect interval (1|10|100|300): This setting is effective for EOC terminals using rtl8306e switching chip, including ca5024 and ca5024w.

3.3.4 loopdetect restore enable

【Command description】

loopdetect restore enable: Turn on the automatic recovery function of loop detection port;

no loopdetect restore enable: Turn off the automatic recovery function of the loop detection port.

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

Turn off

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# loopdetect restore enable

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

3.3.5 loopdetect restore interval

【Command description】

loopdetect restore interval <20-86400>: Set the automatic recovery interval of loop detection port.

【Parameter description】

<20-86400>: Loop port auto recovery interval, in seconds.

【Command mode】

Global configuration mode

【Default】

7200 s

【Use guide】

NO

【example】

GD.LINK# config terminal s

GD.LINK(config)# loopdetect restore interval 100

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

3.3.6 loopdetect restore-cpe

【Command description】

loopdetect restore-cpe X:X:X:X:X:X: Manually recover all looping ports of CPE;;

loopdetect restore-cpe X:X:X:X:X:X **port** <1-4> : Manually restore the looping port specified by CPE

【Parameter description】

X:X:X:X:X:X: CPE MAC address;

<1-4>: CPE port number

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# loopdetect restore-cpe 00:00:00:00:00:03 port 1

GD.LINK(config)#

【Related command】

NO

【Special notes】

3.3.7 show loopdetect

【Command description】

show loopdetect: Display the configuration and looping information of loop detection..

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show loopdetect

Loop Detect Configuration

Loop Detect Period : 1 seconds

Loop Detect Restore State : Disabled

Loop Detect Restore Period : 7200 seconds

Loop Port Detected

CPE MAC Port Restore Timer

00:23:1f:30:16:ec 2 7200

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.3.8 fault detectionfch interval

【Command description】

fch interval <0-300>

Configure the fault detection cycle of the local system.

【Parameter description】

<0-300>: Detection cycle, in seconds, 0 means system fault detection is not enabled

【Command mode】

Global configuration mode

【Default】

The system fault detection function is enabled, and the detection cycle is 30 seconds

【Use guide】

NO

【example】

GD.LINK# configure terminal

GD.LINK(config)# fch interval 100

【Related command】

NO

【Special notes】

NO

3.4 VLAN pool

3.4.2 vlan-pool vlan

【Command description】

vlan-pool WORD vlan WORD: Add VLANs to the VLAN pool. If the specified VLAN pool does not exist, create the VLAN pool and set it as a pupv VLAN pool by default;

vlan-pool WORD vlan WORD (pupv | pppv)

If the VLAN pool exists, this command can add VLANs to the VLAN pool or change the type of VLAN pool. If the VLAN pool does not exist, create the VLAN pool

vlan-pool WORD type (pupv | pppv): Change the type of VLAN pool

vlan-pool WORD rename WORD: Change the name of the specified VLAN pool. The first word indicates the old name of the VLAN pool, and the second word indicates the new VLAN pool name

no vlan-pool WORD vlan WORD: Delete the specified VLAN from the VLAN pool;

no vlan-pool WORD: Delete the specified VLAN pool

【Parameter description】

WORD: VLAN pool name; VLAN ID range. The supported input formats of VLAN ID range are "1,3,5,7", "1,3-5,7", "1-7". A single VLAN such as "5".

pupv: Per user per VLAN

pppv: Per port per VLAN

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# vlan-pool a vlan 1-3,100

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

3.4.3 port vlan-pool

【Command description】

port <1-4> vlan-pool WORD{enable|disable}为 Bind VLAN pool for specified CPE port, and turn on / off VLAN pool function;

no port <1-4> vlan-pool: Turn off the VLAN pool function of the specified CPE port and delete the bound VLAN pool.

【Parameter description】

<1-4>: CPE Ethernet port ID;

WORD: VLAN pool name

enable: enable VLAN pool function

disable: disable VLAN pool function

【Command mode】

Template configuration mode

【Default】

CPE port is not bound to VLAN pool.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template a

GD.LINK(template-a)# port 1 vlan-pool 1 enable

【Related command】

NO

【Special notes】

NO

3.4.4 show vlan-pool port vlan

【Command description】

show vlan-pool port vlan mac X:X:X:X:X:X: Displays the VLAN information assigned by the port and other objects of the specified CPE from the VLAN pool.

show vlan-pool port vlan: Displays the VLAN information assigned by all CPE ports and other objects from the VLAN pool.

【Parameter description】

X:X:X:X:X:X: MAC address of CPE.

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show vlan-pool port vlan

CPE MAC : 00:23:1f:32:78:1b

Port VLAN Information

CPE Port	Pool Name	VLAN ID
1	1	23
2	1	24
3	1	25
4	1	26

WIFI VLAN Information

Wan Connect Name	Type	Pool Name	VLAN ID
1	MNG	1	28

CPE MAC : 00:23:1f:32:fb:ce

Port VLAN Information

CPE Port	Pool Name	VLAN ID
3	1	29
4	1	30

WIFI VLAN Information

Wan Connect Name	Type	Pool Name	VLAN ID
1	MNG	1	27

Total Entries: 2

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.4.5 show vlan-pool

【Command description】

show vlan-pool: Display all VLAN pool information;

show vlan-pool WORD: Displays information about the specified VLAN pool.

【Parameter description】

WORD: VLAN pool name

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show vlan-pool

```
VLAN pool Name      : 1
VLANs                : 1-300
VLANs In Use        : 1-2
```

```
VLAN pool Name      : 2
VLANs                : none
VLANs In Use        : none
```

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.5 black and white list

3.5.1black-list

【Command description】

black-list add X:X:X:X:X: Add a blacklist;

black-list del X:X:X:X:X: Delete a blacklist;

black-list clean: Clear the blacklist.

【Parameter description】

X:X:X:X:X: CPE MAC address

【Command mode】

Headend configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# headend

GD.LINK(headend)# black-list add 00:00:00:00:00:05

success

GD.LINK(headend)#

【Related command】

NO

【Special notes】

NO

3.5.2 white-list

【Command description】

white-list add X:X:X:X:X: Add a white list;

white-list del X:X:X:X:X: Delete a white list;

white-list clean: Clear the blank list.

【Parameter description】

X:X:X:X:X: CPE MAC address

【Command mode】

Headend configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# headend

GD.LINK(headend)# white-list add 00:00:00:00:00:05

success

GD.LINK(headend)#

【Related command】

NO

【Special notes】

NO

3.5.3 anyone

【Command description】

anyone (*allowed|refuse*): Global configuration allows CPE to go online by default. 【Parameter description】

allowed: Allow CPE to go online by default;

refuse: CPE is not allowed to go online by default.

【Command mode】

Headend configuration mode

【Default】

allowed

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# headend

GD.LINK(headend)# anyone refuse

success

GD.LINK(headend)#

【Related command】

NO

【Special notes】

NO

3.5.4 show auth-list

【Command description】

show auth-list: Show all CPEs authorized to be online.

【Parameter description】

【Command mode】

Privilege mode

【Default】

【Use guide】

NO

【example】

GD.LINK# show auth-list

Auth List

CPE MAC

00:23:1f:30:21:41

00:23:1f:30:16:ec

Total Number: 2

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.5.5 show unauth-list

【Command description】

show unauth-list: Show all CPEs that are not authorized to go online with no law.

【Parameter description】

【Command mode】

Privilege mode

【Default】

【Use guide】

NO

【example】

GD.LINK# show unauth -list

UnAuth List

CPE MAC

00:23:1f:30:21:41

00:23:1f:30:16:ec

Total Number: 2

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.6 CPE WIFI

3.6.1 cpe-wifi port vlan-pool

【Command description】

cpe-wifi port <1-4> vlan-pool WORD {enable|disable}

no cpe-wifi port <1-4> vlan-pool

WiFi module configures VLAN pool function of CPE port. Using the no format of this command will delete the VLAN pool bound on this port and turn off its VLAN pool function.

【Parameter description】

<1-4>: port ID;

WORD: VLAN pool name

【Command mode】

Template configuration mode

【Default】

The default port VLAN pool function is off.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi port 3 vlan-pool 1 enable

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

NO

3.6.2 cpe-wifi port access-vlan

【Command description】

cpe-wifi port <1-4> access-vlan <0-4094>

no cpe-wifi port <1-4> access-vlan

WiFi module specifies access VLAN for CPE port. Use the no format of the command to restore the access VLAN specified by WiFi module for CPE port to the default value of 0.

【Parameter description】

<1-4>: port ID;

<0-4094>: VLAN ID.

【Command mode】

Template configuration mode

【Default】

The VLAN ID of the port is not set by default.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi port 3 access-vlan 100

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

NO

3.6.3cpe-wifi lan-port mode

【Command description】

cpe-wifi lan-port <1-4> mode {enable|disable}: WiFi module configures the LAN port mode of CPE port.

【Parameter description】

<1-4>: port ID;

enable: Enable to specify the LAN port mode of CPE port;

disable: Release the LAN port mode of the specified CPE port.

【Command mode】

Template configuration mode

【Default】

disable

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi lan-port 1 mode enable

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration is only applicable to Guangda WiFi terminal

3.6.4cpe-wifi user lan-vid

【Command description】

cpe-wifi user lan-vid <0-4094>

no cpe-wifi user lan-vid

Configure LAN VLAN ID for CPE WiFi. Use the no format of this command to restore the LAN VLAN ID of CPE WiFi to the default value.

【Parameter description】

<0-4094>: VLAN ID.

【Command mode】

Template configuration mode

【Default】

0

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi user lan-vid 123

GD.LINK(config-template)#

【Related command】

cpe-wifi lan-port mode

【Special notes】

This configuration is only applicable to Guangda WiFi terminal

3.6.5cpe-wifi cmcc security

【Command description】

cpe-wifi cmcc security {disable | wep | wpa }

no cpe-wifi cmcc security

Configure the security encryption type of the specified CPE CMCC WiFi. Use the no format of the command to restore the security encryption type of the WiFi to the default value

【Parameter description】

disable: Turn off the security encryption function;

wep: Configure encryption type as WEP

wpa: The configuration encryption type is WPA.

【Command mode】

Template configuration mode

【Default】

disable

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi cmcc security wep

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration is only applicable to Guangda WiFi terminal

3.6.6cpe-wifi cmcc security wep auth-type

【Command description】

cpe-wifi cmcc security wep auth-type {auto|open | share}

no cpe-wifi cmcc security wep auth-type

Configure the WEP authentication type for the specified CPE CMCC WiFi.

Using the no format of this command will restore the WEP authentication type of this WiFi to the default value.

【Parameter description】

{auto|open | share}: Authentication type selection.

【Command mode】

Template configuration mode

【Default】

auto

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi cmcc security wep auth-type open

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration is only applicable to Guangda WiFi terminal

3.6.7cpe-wifi cmcc security wep key-format

【Command description】

cpe-wifi cmcc security wep key-format {ascii | hex}

no cpe-wifi cmcc security wep key-format

Configure the WEP key format for the specified CPE CMCC WiFi.

Use the no format of the command to restore the WEP key format of the WiFi to the default value

【Parameter description】

{ascii | hex}: Key format selection.

【Command mode】

Template configuration mode

【Default】

ascii

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi cmcc security wep key-format ascii

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration is only applicable to Guangda WiFi terminal

3.6.8cpe-wifi cmcc security wep key-id

【Command description】

cpe-wifi cmcc security wep key-id <1-4> key WORD key-type {64-bit | 128-bit }: Configure the WEP key of the specified CPE CMCC WiFi;

cpe-wifi cmcc security wep key-id <1-4> forbid: Disable the specified WEP key;

no cpe-wifi cmcc security wep key-id <1-4>: Delete the specified key.

【Parameter description】

<1-4>: Key ID;

WORD: Key content. The key content entered has the following restrictions:

To select a 64 bit key, you need to enter 10 hexadecimal digits, or 5 ASCII characters. To select a 128 bit key, you need to enter 26 hexadecimal digits, or 13 ASCII characters

{64-bit | 128-bit }:

Key type.

【Command mode】

Template configuration mode

【Default】

No WEP key was created.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi cmcc security wpa key-id 2 forbid

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration is only applicable to Guangda WiFi terminal

3.6.9 cpe-wifi cmcc security wpa auth-type

【Command description】

cpe-wifi cmcc security wpa auth-type {auto|wpa | wpa2}

no cpe-wifi cmcc security wpa auth-type

Configure the WPA authentication type for the specified CPE CMCC WiFi.

Use the no format of the command to restore the configured WPA authentication type to the default configuration.

【Parameter description】

{auto|wpa | wpa2}: WPA certification type selection.

【Command mode】

Template configuration mode

【Default】

auto

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi cmcc security wpa auth-type wpa2

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

NO

3.6.10 cpe-wifi cmcc security wpa algorithm

【Command description】

cpe-wifi cmcc security wpa algorithm {auto| aes| tkip}

no cpe-wifi cmcc security wpa algorithm

Configure the WPA algorithm for the specified CPE CMCC WiFi.

Use the no format of the command to restore the configured WPA algorithm to the default configuration.

【Parameter description】

{auto | aes | tkip}: WPA algorithm selection.

【Command mode】

Template configuration mode

【Default】

auto

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi cmcc security wpa algorithm aes

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration is only applicable to Guangda WiFi terminal

3.6.11 cpe-wifi cmcc security wpa psk-key

【Command description】

cpe-wifi cmcc security wpa psk-key WORD

no cpe-wifi cmcc security wpa psk-key

Configure the WPA key for the specified CPE CMCC WiFi.

Using the no format of the command will remove the configured WPA key.

【Parameter description】

WORD: Key content;

Key length Description: 8-63 ASCII characters or 64 hexadecimal characters.

【Command mode】

Template configuration mode

【Default】

NO

【Use guide】

NO

【example】

```
GD.LINK# config terminal
GD.LINK(config)# template 2
GD.LINK(config-template)# cpe-wifi cmcc security wpa psk-key 1123ghfghfh
GD.LINK(config-template)#
```

【Related command】

NO

【Special notes】

This configuration is only applicable to Guangda WiFi terminal

3.6.12 cpe-wifi add wan

【Command description】

cpe-wifi add (*mgmt* | *data*) **wan** *WORD* [**access-vlan** <0-4094>]

Add a management Wan or business Wan.

【Parameter description】

mgmt: Manage Wan types

data: Business Wan type

WORD: Wan name. Wan name cannot be longer than 254 characters

<0-4094>: VLAN ID

【Command mode】

Template configuration mode

【Default】

If there is no access VLAN configuration, the VLAN defaults to 0.

For the newly created template, there is no WAN connection by default.

For the automatically generated default template, there are three WAN connections by default, which are: "mgmt_wan", "user_wan", "cmcc_wan".

【Use guide】

One management Wan and eight business WANs can be configured on one template at the office of intelon

【example】

```
GD.LINK# config terminal
GD.LINK(config)# template 4
GD.LINK(template-4)# cpe-wifi add mgmt wan mgmt
GD.LINK(template-4)# cpe-wifi add data wan wan1
GD.LINK(template-4)# cpe-wifi add data wan wan2
Different data WAN connect's VLAN can't be the same
GD.LINK(template-4)# cpe-wifi add data wan wan3 access-vlan 3
GD.LINK(template-4)#
```

【Related command】

NO

【Special notes】

This configuration will affect the distribution of our private WiFi terminal and mme2.1 WiFi terminal

3.6.13 cpe-wifi wan type

【Command description】

cpe-wifi wan *WORD* **type** (*mgmt* | *data*)

Change the type of WAN connection

【Parameter description】

WORD: WAN name

mgmt: Change a WAN connection to manage WAN connection types

data: Change a WAN connection to a business WAN connection type

【Command mode】

Template configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi wan yy type data

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration will affect the distribution of our private WiFi terminal and mme2.1 WiFi terminal

3.6.14 cpe-wifi wan rename

【Command description】

cpe-wifi wan *WORD* **rename** *WORD*

Change the name of a WAN connection

【Parameter description】

First word: current name of the WAN connection

Second word: the new name of the WAN connection

【Command mode】

Template configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi wan yy rename cc

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.15 cpe-wifi delete wan

【Command description】

cpe-wifi delete wan *WORD*

Delete a WAN connection

【Parameter description】

WORD: WAN connection name

【Command mode】

Template configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi delete wan cc

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.16 cpe-wifi wan access-vlan

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **access-vlan** *<0-4094>*

Configure access VLAN for WAN connection

【Parameter description】

Mgmt: managing Wan

Data: business Wan

WORD: WAN Connection name

<0-4094>:access VLAN ID

【Command mode】

Template configuration mode

【Default】

NO

【Use guide】

Access VLAN of WAN connection of different services are different and the same

Access VLAN of service Wan and management Wan cannot be the same as user LAN VLAN

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi data wan hh access-vlan 555

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.17 cpe-wifi wan vlan-pool

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **vlan-pool** *WORD* (*enable* | *disable*)

Bind VLAN pool for WAN connection

no cpe-wifi (*mgmt* | *data*) **wan** *WORD* **vlan-pool**

Unbind VLAN pool for specified WAN connection

【Parameter description】

Mgmt: managing Wan

Data: business Wan

First word: WAN connection name

Second word: VLAN pool name (the specified VLAN pool must exist)

Enable: enable VLAN pool function on WAN connection

Disable: turn off VLAN pool function on WAN connection

【Command mode】

Template configuration mode

【Default】

Norvlan pool Association on new WAN connection

【Use guide】

Different business Wan cannot be bound to the same VLAN pool of pupv type

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi data wan hh vlan-pool pool_1 enable

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.18 cpe-wifi wan priority

【Command description】

cpe-wifi (*mgmt | data*) **wan** *WORD* **priority** <0-7>

Configure 802.1p priority for WAN connections

no cpe-wifi (*mgmt | data*) **wan** *WORD* **priority**

Restore the 802.1p priority of the specified WAN connection to the default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

Word: WAN connection name

< 0-7 >: 802.1p priority

【Command mode】

Template configuration mode

【Default】

The default 802.1p priority for both management Wan and service Wan is 0

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi data wan hh priority 5

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.19 cpe-wifi mgmt wan acs-access user

【Command description】

cpe-wifi mgmt wan *WORD* **acs-access user** *WORD* **password** *WORD*

Configure ACS access authentication user name and password for management WAN connection

no cpe-wifi mgmt wan *WORD* **acs-access user**

Restore ACS access authentication user name and password of management WAN connection to default value

【Parameter description】

First word: WAN connection name

Second word: access authentication user name (user name cannot be longer than 254 characters)

Third word: access authentication user password (password length cannot exceed 254 characters)

【Command mode】

Template configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan bbb acs-access user ygg password lgg

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.20 cpe-wifi mgmt wan acs-access url

【Command description】

cpe-wifi mgmt wan *WORD* **acs-access url** *WORD*

Configure ACS access URL for management WAN connection

no cpe-wifi mgmt wan *WORD* **acs-access url**

Restore ACS access URL of management WAN connection to default value

【Parameter description】

First word: WAN connection name

Second word: URL string (URL length cannot exceed 254 characters)

【Command mode】

Template configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy acs-access url www.1fgfkg.com

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.21 cpe-wifi mgmt wan acs-remote-access user

【Command description】

cpe-wifi mgmt wan *WORD* acs-remote-access user *WORD* password *WORD*

Configure ACS remote access user name and password for managing WAN connections

no cpe-wifi mgmt wan *WORD* acs-remote-access user

Restore ACS remote access user name and password of management WAN connection to default value

【Parameter description】

First word: WAN connection name

Second word: remote access authentication user name (user name cannot be longer than 254 characters)

Third word: remote access authentication user password (password length cannot exceed 254 characters)

【Command mode】

Template configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy acs-access url www.1fgfkg.com

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.22 cpe-wifi mgmt wan acs-remote-access url

【Command description】

cpe-wifi mgmt wan *WORD* **acs-remote-access url** *WORD*

Configure the ACS remote access URL for managing WAN connections

no cpe-wifi mgmt wan *WORD* **acs-remote-access url**

Restore ACS remote access URL of management WAN connection to default value

【Parameter description】

First word: WAN connection name

Second word: URL string (URL length cannot exceed 254 characters)

【Command mode】

Template configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy acs-remote-access url www.yyy.com

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.23 cpe-wifi wan mtu

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **mtu** *<46-1500>*

Configure MTU for WAN connection

no cpe-wifi (*mgmt* | *data*) **wan** *WORD* **mtu**

Restore MTU configuration of WAN connection to default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

Word: WAN connection name

<46-1500>: MTU

【Command mode】

Template configuration mode

【Default】

1500

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy mtu 500

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.24 cpe-wifi wan ip-mode

【Command description】

cpe-wifi (*mgmt | data*) **wan** *WORD* **ip-mode** (*dhcp|static|pppoe*)

Configure IP mode of WAN connection

no cpe-wifi (*mgmt | data*) **wan** *WORD* **ip-mode**

Restore the IP mode of WAN connection to the default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

Word: WAN connection name

dhcp:WAN The IP address of the connection is obtained dynamically through DHCP

Static: the IP of WAN connection is static configuration

pppoe:WAN The connected IP is obtained through PPPoE dial-up

【Command mode】

Template configuration mode

【Default】

The default IP mode for managing Wan is static

The default IP mode of business Wan is DHCP

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy ip-mode dhcp

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.25 cpe-wifi wan connect-protocol

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **connect-protocol** (*ipv4|ipv6|both*)

Configure connection protocol for WAN connection

no cpe-wifi (*mgmt* | *data*) **wan** *WORD* **connect-protocol**

Restore the connection protocol configuration of WAN connection to the default value

【Parameter description】

mgmt: mgmt WAN

data:Business Wan

WORD: WAN connection name

IPv4: connection protocol is IPv4

IPv6: connection protocol is IPv6

Both: the connection protocol is IPv4 and IPv6

【Command mode】

Template configuration mode

【Default】

The default connection mode for managing Wan is IPv4

The default connection mode of business Wan is IPv6

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy connect-protocol ipv6

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.26 cpe-wifi wan pppoe user

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **pppoe user** *WORD* **password** *WORD*

Configure PPPoE dial-up user name and password for WAN connection

no cpe-wifi (*mgmt* | *data*) **wan** *WORD* **pppoe user**

Restore PPPoE dial-up user name and password of WAN connection to default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

First word: WAN connection name

Second word: PPPoE user name of WAN connection (user name cannot be longer than 254 characters)

Third word: PPPoE password of WAN connection (password length cannot exceed 254 characters)

【Command mode】

Template configuration mode

【Default】

PPPoE user name and password are both empty

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy pppoe user ysm password 1111

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.27 cpe-wifi wan ipv4 address

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv4 address** *A.B.C.D* **mask** *A.B.C.D*

Configure IPv4 address and subnet mask for WAN connection

no cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv4 address**

Restore the configuration of IPv4 address and subnet mask of WAN connection to the default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

Word: WAN connection name

First A.B.C.D: IPv4 address

Second A.B.C.D: subnet mask

【Command mode】

Template configuration mode

【Default】

The default IPv4 address and subnet mask for managing WAN connections are 192.168.0.1 and 255.255.255.0, respectively

The default IPv4 address and subnet mask of the service WAN connection are 0.0.0.0 and 0.0.0.0 respectively

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy ipv4 address 1.1.1.1 mask 255.0.0.0

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

Manage the IPv4 address configuration of Wan and act on our private WiFi terminal and mme2.1 WiFi terminal at the same time

The IPv4 address configuration of the service Wan only works on the mme2.1 WiFi terminal

3.6.28 cpe-wifi wan ipv4 gateway

【Command description】 **cpe-wifi** (*mgmt | data*) **wan** *WORD* **ipv4 gateway** *A.B.C.D*

Configure IPv4 gateway for WAN connection

no cpe-wifi (*mgmt | data*) **wan** *WORD* **ipv4 gateway**

Restore the IPV4 gateway configuration of WAN connection to the default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

Word: WAN connection name

A. B.C.D: IPv4 gateway address

【Command mode】

Template configuration mode

【Default】

The default IPv4 gateway address for managing WAN connections is: 192.168.0.1

The default IPv4 gateway address for business WAN connection is: 0.0.0.0

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy ipv4 gateway 1.1.1.5

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.29 cpe-wifi wan ipv4 primary dns

【Command description】 **cpe-wifi** (*mgmt* | *data*) **wan** *WORD* **ipv4 primary dns** *A.B.C.D*

Configure IPv4 primary DNS for WAN connections

no cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv4 primary dns**

Restore IPv4 primary DNS configuration of WAN connection to default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

Word: WAN connection name

A. B.C.D: IPv4 DNS address

【Command mode】

Template configuration mode

【Default】

The default primary DNS for both management Wan and business Wan is 0.0.0.0

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy ipv4 primary dns 1.1.1.6

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.30 cpe-wifi wan ipv4 backup dns

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv4 backup dns** *A.B.C.D*

Configure IPv4 backup DNS for WAN connection

no cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv4 backup dns**

Restore the IPv4 backup DNS configuration of WAN connection to the default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

Word: WAN connection name

A.B.C.D: IPv4 DNS address

【Command mode】

Template configuration mode

【Default】

The default backup DNS for both management Wan and business Wan is 0.0.0.0

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy ipv4 backup dns 1.1.1.7

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.31 cpe-wifi wan ipv6 address

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv6 address** *WORD*

Configure IPv6 address of WAN connection

no cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv6 address**

Restore IPv6 address configuration of WAN connection to default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

First word: WAN connection name

Second word: IPv6 address (for example: 2000:1000:1000:3000:6789:abcd:2345:1234/56)

【Command mode】

Template configuration mode

【Default】

default: 0:0:0:0:0:0:0:0

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy ipv6 address

2000:1000:1000:3000:6789:abcd:2345:1234/56

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.32 cpe-wifi wan ipv6 gateway

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv6 gateway** *WORD*

Configure IPv6 gateway address of WAN connection

no cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv6 gateway**

Restore IPv6 gateway configuration of WAN connection to default

【Parameter description】

Mgmt: managing Wan

Data: business Wan

First word: WAN connection name

Second word: IPv6 gateway address (for example:2000:1000:1000:3000:6789:abcd:2345:1234)

【Command mode】

Template configuration mode

【Default】

default: 0:0:0:0:0:0:0:0

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy ipv6 gateway

2000:1000:1000:3000:6789:abcd:2345:1230

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.33 cpe-wifi wan ipv6 primary dns

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv6 primary dns** *WORD*

Configure IPv6 primary DNS address of WAN connection

no cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv6 primary dns**

Recover IPv6 primary DNS address of WAN connection to default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

First word: WAN connection name

Second word: IPv6 DNS address (for example: 2000:1000:1000:3000:6789:abcd:2345:1234)

【Command mode】

Template configuration mode

【Default】

default: 0:0:0:0:0:0:0:0

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy ipv6 primary dns

2000:1000:1000:3000:6789:abcd:2345:1230

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.34 cpe-wifi wan ipv6 backup dns

【Command description】

cpe-wifi (*mgmt* | *data*) **wan** *WORD* **ipv6 backup dns** *WORD*

Configure IPv6 backup DNS address for WAN connection

no cpe-wifi (*mgmt | data*) **wan** *WORD* **ipv6 backup dns**

Restore IPv6 backup DNS address of WAN connection to default value

【Parameter description】

Mgmt: managing Wan

Data: business Wan

First word: WAN connection name

Second word: IPv6 DNS address (for example:2000:1000:1000:3000:6789:abcd:2345:1234)

【Command mode】

Template configuration mode

【Default】

default: 0:0:0:0:0:0:0:0

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mgmt wan yy ipv6 backup dns

2000:1000:1000:3000:6789:abcd:2345:1111

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.35 cpe-wifi data wan connect-mode

【Command description】

cpe-wifi data wan *WORD* **connect-mode** (*route|bridge*)

Configure the connection mode of business Wan

no cpe-wifi data wan *WORD* **connect-mode**

Restore the connection mode configuration of the business wan to the default value

【Parameter description】

Word: WAN connection name

Route: the connection mode is route

Bridge: the connection mode is bridge

【Command mode】

Template configuration mode

【Default】

default: route

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi data wan hh connect-mode bridge

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

1. This configuration only works on the WiFi terminal of mme2.1.
2. In bridge mode, VLAN 0 is not supported.

3.6.36 cpe-wifi data wan service-type

【Command description】

cpe-wifi data wan *WORD* **service-type** (*internet|vod|voip*)

Configure service type of business Wan

no cpe-wifi data wan *WORD* **service-type**

Restore the service type configuration of the business wan to the default value

【Parameter description】

Word: WAN connection name

Internet: service type is Internet service

VOD: the service type is video on demand

VoIP: service type is network phone

【Command mode】

Template configuration mode

【Default】

default: internet

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi data wan hh service-type vod

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

This configuration only works on the WiFi terminal of mme2.1

3.6.37 cpe-wifi data wan bind-interface

【Command description】

cpe-wifi data wan WORD bind-interface (ssid-1|ssid-2|ssid-3|ssid-4|lan-1|lan-2|lan-3|lan-4|none)

Configure the binding interface of the business Wan. You can use this command to configure multiple binding interfaces for the business Wan.

no cpe-wifi data wan WORD bind-interface (ssid-1|ssid-2|ssid-3|ssid-4|lan-1|lan-2|lan-3|lan-4)

Remove a binding interface from the business Wan

no cpe-wifi data wan WORD bind-interface

Delete all binding interfaces on the business Wan

【Parameter description】

WORD: WAN connection name

(ssid-1|ssid-2|ssid-3|ssid-4|lan-1|lan-2|lan-3|lan-4|none):

Binding interface name, none: indicates the binding interface to cancel the business Wan

【Command mode】

Template configuration mode

【Default】

default: none

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi data wan hh bind-interface lan-2

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.38 cpe-wifi mode

【Command description】

cpe-wifi mode (ap|repeater)

Configure home gateway mode.

no cpe-wifi mode

Restore home gateway mode to default

【Parameter description】

(ap|repeater): Home gateway mode selection

【Command mode】

Template configuration mode

【Default】

ap

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi mode repeater

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.39 cpe-wifi ssid-name

【Command description】

cpe-wifi ssid-name <2-4> *WORD*

Configure SSID name.

【Parameter description】

<2-4>: SSID ID

WORD: SSID name

【Command mode】

Template configuration mode

【Default】

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi ssid-name 2 gfhj

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.40 cpe-wifi ssid-state

【Command description】

cpe-wifi ssid-state <2-4> (*enable* | *disable*)

Configure SSID enable switch.

【Parameter description】

<2-4>: SSID ID 号

Enable: enable the specified SSID

isable: turns off the specified SSID

【Command mode】

Template configuration mode

【Default】

disable

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi ssid-state 3 enable

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.41 cpe-wifi wlan

【Command description】

cpe-wifi wlan (*enable* | *disable*)

Configure the home gateway WLAN switch.

【Parameter description】

Enable: turn on home gateway WLAN

Disable: turn off home gateway WLAN

【Command mode】

Template configuration mode

【Default】

enable

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 2

GD.LINK(config-template)# cpe-wifi wlan enable

GD.LINK(config-template)#

【Related command】

NO

【Special notes】

3.6.42 show cpe-wifi config mac

【Command description】

show cpe-wifi config mac X:X:X:X:X:X: Displays all WiFi configurations for the specified online CPE.

【Parameter description】

X:X:X:X:X:X: CPE MAC address

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

Display the WiFi configuration information of our WiFi terminal

GD.LINK# show cpe-wifi config mac 00:23:1f:18:16:56

Real-time WIFI Infomation

GuangDa ios 3.2.1 release(33351) - hardware(ap121-2.6.31).

Compile at 2014-07-09-11:15 Copyright 2000-2016.

CPE MAC : 00:23:1f:18:16:56

Management Interface Configuration

Static IP Address And Net Mask

IP Address : 0.0.0.0

Net Mask : 0.0.0.0

PPPOE Configuration

User :

Password :

DHCP Configuration

Status : Disabled
IP Pool : 0.0.0.0-0.0.0.0
Mask : 0.0.0.0
GateWay : 0.0.0.0

Basic WIFI Configuration

User Configuration

SSID :
Mode :
WAN Mode : Dynamic IP
Frequency : auto
Access VLAN : 0
LAN VID : 0
Manage VID : 0

CMCC Configuration

SSID :
Mode :
Status : Disabled
WAN Mode : Bridge
Frequency : auto
Access VLAN : 0

Security Configuration

User Configuration

Security Type : Disabled

WEP Configuration

Authentication Type :

Key Format :

Keys : None

WPA Configuration

Authentication Type :

Algorithm :

Key : None

CMCC Configuration

Security Type : Disabled

WEP Configuration

Authentication Type :

Key Format :

Keys : None

WPA Configuration

Authentication Type :

Algorithm :

Key : None

GD.LINK#

Display WiFi configuration information of mme2.1 WiFi terminal

GD.LINK# show cpe-wifi config mac 00:23:1f:32:78:1b

Home Gateway Software Version : 47126
Home Gateway Hardware Version : GuangDa-wifi-v2.0
Home Gateway Startup Status : Startup
Home Gateway Mode : AP
Home Gateway WLAN Status : Enable

SSID Configuration

SSID Index	SSID Name	SSID Status

1	SCCN_892BA	Enable
2	SCCN_892BB	Disable
3	SCCN_892BC	Disable
4	SCCN_892BD	Disable

WIFI LAN Port Configuration

Port	Link	Duplex	Speed	Auto-Nego

2	Down	none	none	none
4	Down	none	none	none

MGMT WAN Connect Configuration

WAN Name : 1
Status : Enable
MTU : 1500
MGMT VLAN : 0
VLAN Priority : 0
IP Assigned Mode : Static
Connection Protocol : IPV4
IPV4 Address : 192.168.1.2
IPV4 Mask : 255.255.255.0
IPV4 Default Gateway : 192.168.0.1
IPV4 Primary DNS Server : 0.0.0.0
IPV4 Backup DNS Server : 0.0.0.0

IPV6 Address : ::/0
 IPV6 Default Gateway : ::
 IPV6 Primary DNS Server : ::
 IPV6 Backup DNS Server : ::
 PPPOE User Name :
 PPPOE User Password :
 ACS Access URL :
 ACS Access User Name :
 ACS Access User Password :
 ACS Remote Access URL :
 ACS Remote Access User Name :
 ACS Remote Access User Password :

Data WAN Connect Configuration

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.6.43 show wifi-user

【Command description】

show wifi-user: Displays information about the online CPE WiFi.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show wifi-user

ID	CpeMAC	WifiMAC	SndID	AckID	VID	MngIP	Version
EchoFailCnt							
---	-----	-----	----	----	----	-----	-----
0	00:23:1f:32:78:1b	64:51:7e:00:89:2b	-	-	0	192.168.1.2	47126 -

1 00:23:1f:32:fb:ce c8:9f:1d:06:60:7e 1 1 0 192.168.1.2 47164 1

GD.LINK#

【Related command】

NO

【Special notes】

"-" "-" means the field is not supported

3.6.44 wifi discover-interval

【Command description】

wifi discover-interval <1-200>: WiFi message transmission interval.

【Parameter description】

<1-200>: WiFi transmission interval.

【Command mode】

Global configuration mode

【Default】

3s

【Use guide】

NO

【example】

GD.LINK# configure terminal

GD.LINK(config)# wifi discover-interval 2

GD.LINK#

【Related command】

NO

【Special notes】

When the WiFi discover interval is greater than 15, the old version of WiFi (lower than 30845) may cause the following problems:

- 1) The web restores the factory settings of WiFi, which results in that the office will not issue configuration after the WiFi is restarted
- 2) The version number displayed by show WiFi user may be incorrect

Therefore, it is not recommended to modify the value.

3.6.45 cpe-wifi version-update

【Command description】

cpe-wifi mac X:X:X:X:X **version-update** A.B.C.D *WORD*: Upgrade the WiFi version for our private WiFi terminal.

【Parameter description】

X:X:X:X:X: Terminal MAC address;

A. B.c.d: IP address of TFTP server where the upgrade file is located;

Word: upgrade file path name.

【Command mode】

CPE mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# con terminal

GD.LINK(config)# cpe

GD.LINK(cpe)# cpe-wifi mac 00:23:1f:30:13:f7 version-update 192.168.0.10 wifi-image

【Related command】

NO

【Special notes】

This command needs to configure terminal management IP address to be able to communicate with TFTP server IP address.

This command can only upgrade the WiFi version of a single private WiFi terminal of our company.cpe-wifi reboot mac wifi

【Command description】

cpe-wifi reboot mac X:X:X:X:X:X wifi

Restart WiFi chip of specified terminal

【Parameter description】

X:X:X:X:X: Terminal MAC address

【Command mode】

CPE mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# con terminal

GD.LINK(config)# cpe

GD.LINK(cpe)# cpe-wifi reboot mac 00:23:1f:32:fb:ce wifi

【Related command】

NO

【Special notes】

The order is applied to both our private WiFi terminal and mme2.1 WiFi terminal.

This order does not take effect on our WiFi terminals that are already in use in the current network.

3.6.46 cpe-wifi reboot mac cnu

【Command description】

cpe-wifi reboot mac X:X:X:X:X cnu

Restart the WiFi terminal of the whole machine, including the restart of EOC chip and WiFi chip

【Parameter description】

X:X:X:X:X: Terminal MAC address;

【Command mode】

CPE mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# con terminal

GD.LINK(config)# cpe

GD.LINK(cpe)# cpe-wifi reboot mac 00:23:1f:32:fb:ce cnu

【Related command】

NO

【Special notes】

The order is applied to both our private WiFi terminal and mme2.1 WiFi terminal.

This order does not take effect on our WiFi terminals that are already in use in the current network.

【Command description】

cpe-wifi reset mac X:X:X:X:X wifi-factory-cfg

Restore WiFi configuration to factory configuration

【Parameter description】

X:X:X:X:X: Terminal MAC address;

【Command mode】

CPE mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# con terminal

GD.LINK(config)# cpe

GD.LINK(cpe)# cpe-wifi reset mac 00:23:1f:32:fb:ce wifi-factory-cfg

【Related command】

NO

【Special notes】

The order is applied to both our private WiFi terminal and mme2.1 WiFi terminal.

This order does not take effect on our WiFi terminals that are already in use in the current network.。

3.6.47 cpe-wifi delete mac wan

【Command description】

cpe-wifi delete mac X:X:X:X:X:X wan

Delete all WAN connections of the specified terminalN

cpe-wifi delete mac X:X:X:X:X:X wan WORD

Delete the specified WAN connection of the specified terminal

【Parameter description】

X:X:X:X:X:X: Terminal MAC address;

WORD: WAN connection name

【Command mode】

CPE mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# con terminal

GD.LINK(config)# cpe

GD.LINK(cpe)# cpe-wifi delete mac 00:23:1f:32:fb:ce wan

【Related command】

NO

【Special notes】

This command is only valid for mme2.1 WiFi terminal.

3.6.48 cpe-wifi upgrade

【Command description】

Configure WiFi version upgrade through IPv4 protocol

1) **cpe-wifi upgrade X:X:X:X:X:X A.B.C.D (image|config) WORD WORD WORD WORD WORD**

Configure the WiFi version upgrade for the specified mme2.1 WiFi terminal through IPv4 protocol

2) cpe-wifi upgrade online

A.B.C.D (image|config) WORD WORD WORD WORD WORD

Configure to upgrade WiFi version for all mme2.1 WiFi terminals through IPv4 protocol

First word: upgrade filename

Second word: upgrade file version

Third WORD:FTP Server port

Fourth WORD:FTP Authentication user name

Fifth WORD:FTP Authentication password

Configure WiFi version upgrade through IPv6 protocol

cpe-wifi upgrade *X:X:X:X:X:X WORD (image|config) WORD WORD WORD WORD WORD*

Configure the WiFi version upgrade for the specified mme2.1 WiFi terminal through IPv6 protocol

cpe-wifi upgrade online *WORD (image|config) WORD WORD WORD WORD WORD*

Configure to upgrade WiFi version for all mme2.1 WiFi terminals through IPv6 protocol

first WORD:IPV6 address

Second word: upgrade filename

Third word: upgrade file version

Fourth WORD:FTP Server port

Fifth WORD:FTP Authentication user name

Sixth WORD:FTP Authentication password

【Parameter description】

10: X: X: X: X: X: X: X: X: terminal MAC address;

A. B.C.D:IP V4 address of FTP server

Image: upgrade file type is software

Config: upgrade file type is configuration file

【Command mode】

CPE mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# con terminal

GD.LINK(config)# cpe

GD.LINK(cpe)# cpe-wifi upgrade online 192.168.1.29 image wifi-9331-sccn-r47126.bin 47126 21 1

1

【Related command】

NO

【Special notes】

This command is only valid for mme2.1 WiFi terminal.

3.6.49 wifi-cfg auto-apply

【Command description】

wifi-cfg auto-apply (enable | disable)

The template is configured with an automatic distribution enable switch. Only for WiFi non port configuration. If it is closed, the WiFi configuration of the template will not be distributed to WiFi when WiFi is online.

【Parameter description】

Enable: enable automatic distribution of template configuration

Disable: disable automatic distribution of template configuration

【Command mode】

Template configuration mode

【Default】

enable

【Use guide】

NO

【example】

GD.LINK# con terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# wifi-cfg auto-apply disable

【Related command】

NO

【Special notes】

3.7 CPE template

3.7.1template

【Command description】

template WORD: Create template / enter the specified template for configuration;

no template WORD: Delete template.

【Parameter description】

WORD: Template name.

【Command mode】

Global configuration mode

【Default】

A default template exists.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template wifi

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

3.7.2name

【Command description】

name *WORD*: Is a template command. The template name cannot exceed 32 characters.

【Parameter description】

WORD: Template name

【Command mode】

Template configuration mode

【Default】

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(config-template 1)# name gjfdkjfdhj

【Related command】

NO

【Special notes】

NO

3.7.3show template

【Command description】

show template: Display basic information of all templates;

show template *WORD*: Displays the configuration of the specified template.

【Parameter description】

WORD: Template name

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show template

default: rr

NO	Name	MAC Count	Last Time
1	2	0	1970-01-01 09:34:41
2	default	0	1970-01-01 08:00:24
3	rr	0	1970-01-01 08:19:02

GD.LINK#

GD.LINK# show template rr

default enable

aging time-override enable 10 10

tx-power 118

storm-control broadcast on

storm-control multicast off

storm-control unknown off

storm-control speed-pps 80

loopdetect enable

loopdetect interval 10

8021q on

port 1 enable

port 1 mac-limit off

port 1 mode trunk

port 1 access-vlan 1

port 1 tx-rate off

port 1 rx-rate off

port 2 enable

port 2 mac-limit off

port 2 mode access

port 2 access-vlan 1

port 2 tx-rate off
port 2 rx-rate off
port 3 enable
port 3 mac-limit off
port 3 mode access
port 3 access-vlan 1
port 3 tx-rate off
port 3 rx-rate off
port 4 enable
port 4 mac-limit off
port 4 mode access
port 4 access-vlan 1
port 4 tx-rate off
port 4 rx-rate off
upport mode trunk
upport access-vlan 1
upport tx-rate off
upport rx-rate off
port 1 vlan-pool 1 enable
port 2 vlan-pool 2 enable
port 3 vlan-pool 3 enable
port 4 vlan-pool 4 enable
cpe-wifi manage-vid 0
cpe-wifi user lan-vid 0
cpe-wifi cmcc disable
cpe-wifi ip-addr 192.168.0.1 255.255.255.0
cpe-wifi user access-vlan 0
cpe-wifi cmcc access-vlan 2
cpe-wifi cmcc ssid CMCC
cpe-wifi cmcc security disable
cpe-wifi cmcc security wep auth-type auto
cpe-wifi cmcc security wep key-format ascii
cpe-wifi cmcc security wep key-id 1 forbid
cpe-wifi cmcc security wep key-id 2 forbid
cpe-wifi cmcc security wep key-id 3 forbid
cpe-wifi cmcc security wep key-id 4 forbid
cpe-wifi cmcc security wpa auth-type auto
cpe-wifi cmcc security wpa algorithm auto

```
cpe-wifi cmcc security wpa psk-key
cpe-wifi port 1 access-vlan 0
cpe-wifi lan-port 1 mode disable
cpe-wifi port 2 access-vlan 0
cpe-wifi lan-port 2 mode disable
cpe-wifi port 3 access-vlan 0
cpe-wifi lan-port 3 mode disable
cpe-wifi port 4 access-vlan 0
lasttime 1970-01-01 08:19:02
```

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.7.4restart template

【Command description】

restart template *WORD*: Restart all CPEs that are using the specified template.

WORD: Template name

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

```
GD.LINK# restart  template rr
```

```
*Jun 01 09:40:51.331 %WIFI-5-WIFIOFFLINE:CPE(00:23:1f:30:16:ec):wifi is offline
```

```
*Jun 01 09:40:51.331 %STATION-5-RESET:CPE(00:23:1f:30:16:ec): tei 2 reset, INTL74
```

```
GD.LINK#
```

【Related command】

NO

【Special notes】

NO

3.7.5mac

【Command description】

mac X:X:X:X:X: Binding a CPE to a template;

no mac X:X:X:X:X: Unbind a CPE from the specified template.

【Parameter description】

X:X:X:X:X: CPE MAC address

【Command mode】

Template configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)# template 1

GD.LINK(template-1)# mac 00:23:1f:30:16:ec

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.7.6cnu-type

【Command description】

cnu-type add WORD: In template mode, bind the terminal model to the template,

cnu-type delete WORD: In template mode, remove the bound terminal model from the template.

cnu-type WORD **description** WORD: Global add supported terminal models,

no cnu-type WORD: Global deletion of supported terminal models

【Parameter description】

WORD: Terminal model, "CA5024", "CA5024W".

description WORD: Description of terminal model

【Command mode】

Template configuration mode, global mode.

【Default】

No terminal model binding under the template.

No terminal models supported by global configuration

【Use guide】

NO

【example】

GD.LINK(config)# template 1

GD.LINK(template-1)# cnu-type add CA5024

success

GD.LINK(template-1)#

GD.LINK(config)# cnu-type CA5024W description fdgfgj

success

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

3.7.7default

【Command description】

default (enable|disable): Configure the template as the default template.

【Parameter description】

Enable: specifies a template as the default template;

Disable: specifies a template as a non default template.

【Command mode】

Template configuration mode

【Default】

default disable

【Use guide】

NO

【example】

GD.LINK(config)# template 1

GD.LINK(template-1)# default enable

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.8 MAC address aging time configuration of office / terminal

3.8.1aging time-override

【Command description】

Configure the MAC address aging time of the local / terminal equipment.

【Parameter description】

aging time-override <4-1440> <4-1440> : The first parameter means the aging time of MAC address learned on Ethernet port, and the second parameter means the aging time of MAC address learned on coaxial cable. Aging time is in minutes;

【Command mode】

Headend configuration mode

【Default】

Default value of the first parameter: 10 minutes;

The default value for the second parameter: 10 minutes.

【Use guide】

NO

【example】

Configure headend:

GD.LINK(config-headend)# aging time-override 5 7

Configure the terminals under the template:

GD.LINK(template-111)# aging time-override 5 7

【Related command】

NO

【Special notes】

Executing this command in head end mode means setting MAC aging time for local devices

Executing this command in template mode means setting MAC aging time for terminal device

3.9 headend/ terminal QoS configuration

3.9.1qos buffer-threshold

【Command description】

qos buffer-threshold enable <0-100> <0-100> <0-100>: Configure the percentage of low, medium, and high buffers for terminal or headend QoS. The highest buffer value is automatically generated (100 minus the configured low, medium, and high values).

qos buffer-threshold disable : Configure the buffer occupied by the QoS queue of the terminal or headend not to be allocated proportionally

【Parameter description】

<0-100>: %

【Command mode】

Headend mode /Template configuration mode

【Default】

Low priority queue: 20

Medium priority queue: 25

High priority queue: 45

【Use guide】

NO

【example】

headend

GD.LINK(config-headend)# qos buffer-threshold enable 20 20 30

terminal

GD.LINK(template-111)# qos buffer-threshold enable 20 20 30

【Related command】

NO

【Special notes】

NO

3.9.2qos classify

【Command description】

qos classify add vid (*is|not*) <1-4094> **policy** (*low|middle|high|important|drop*) 。 Add QoS rules of matching packet VLAN

qos classify remove vid (*is|not*) <1-4094> 。 Delete the specified QoS rules of matched packet VLAN

qos classify add pri (*is|not*) <0-7> **policy** (*low|middle|high|important|drop*) 。 Adding QoS rules of matching message 8021. P priority

qos classify remove pri (*is|not*) <0-7>Delete the specified QoS rule of matching message 8021. P priority

【Parameter description】

Is: indicates that packets matching the specified vid / priority use this QoS rule

Not: indicates that packets that do not match the specified vid / priority use this QoS rule

Drop: discard the message matching the rule;

Low: put the message matched to the rule into the low priority queue;

Middle: put the message matched to the rule into the medium priority queue;

High: put the message matched to the rule into the high priority queue;

Important: put messages matching to the rule into the highest priority queue

【Command mode】

Headend mode/Template configuration mode

【Default】

NO qos rule

【Use guide】

NO

【example】

Headend:

GD.LINK(config-headend)# qos classify add vid is 100 policy high

Terminal:

GD.LINK(template-111)# qos classify add pri is 5 policy low

【Related command】

NO

【Special notes】

NO

3.10 Headend / terminal frequency configuration

3.10.1 freq-band

【Command description】

freq-band enable <1807-67500> <1807-67500>:Set the working frequency of headend / terminal

freq-band disable: Restore the working frequency of office / terminal to the default value

【Parameter description】

The first < 1807-67500 >: initial frequency configuration;

Second < 1807-67500 >: cut off frequency configuration

【Command mode】

Headend/Template configuration mode

【Default】

Starting frequency: 7500;

Cut off frequency: 67500.

【Use guide】

NO

【example】

Headend

GD.LINK(config-headend)# freq-band enable 2000 60000

Terminal

GD.LINK(template-111)# freq-band enable 2000 40000

【Related command】

NO

【Special notes】

NO

3.11 Headend / terminal transmission level configuration

3.12 Config

3.12.1 tx-power

【Command description】

tx-power <90-120>: Configure the transmission level of the office / terminal.

【Parameter description】

<90-120>: Value range of transmission level, unit: dBuV.

【Command mode】

Headend and template configuration mode

【Default】

118dBuV.

【Use guide】

Users can configure the transmission power according to the signal strength of the actual environment.

【example】

Headend:

GD.LINK(config-headend)# tx-power 100

Terminal

GD.LINK(template-111)# tx-power 100

【Related command】

NO

【Special notes】

If the command is executed in the head end mode, it means that the transmitting power is configured for the local end;

When the command is executed in template mode, it means that the terminal is configured with transmission power.

3.13 headend / terminal configuration application command

3.13.1 apply

【Command description】

apply: If the command is executed in the head end mode, the configuration under the head end is applied to the local chip;

If you execute this command in template mode, the configuration under the template will be applied to all terminals bound to the template and terminals matching the terminal model.

【Parameter description】

NO

【Command mode】

Headend mode/Template configuration mode

【Default】

【Use guide】

NO

【example】

Headend:

GD.LINK(config-headend)# apply

Configure the terminals under the template:

GD.LINK(template-111)# apply

【Related command】

NO

【Special notes】

NO

3.14 basic configuration of headend

3.14.1 silence-time

【Command description】

Configure the time when the terminal requests the online interval again after being kicked offline.

【Parameter description】

silence-time <1-14>: The time, in minutes, for the terminal to request the online interval again after being kicked offline.

【Command mode】

Headend configuration mode

【Default】

3mins

【Use guide】

NO

【example】

GD.LINK(config-headend)# silence-time 5

【Related command】

NO

【Special notes】

NO

3.14.2 igmp-snooping

【Command description】

igmp-snooping {enable|disable}: Turn on / off IGMP snooping function at headend

【Parameter description】

enable: enable IGMP snooping

disable: disable IGMP snooping

【Command mode】

Headend configuration mode

【Default】

Disable IGMP snooping function

【Use guide】

NO

【example】

GD.LINK(config-headend)# igmp-snooping disable

【Related command】

NO

【Special notes】

NO

3.14.3 compat

【Command description】

compat {enable|disable}: Configure whether the office is compatible with 64 terminal devices.

【Parameter description】

enable: Compatible with 64 terminal equipment;

disable: Not compatible with 64 terminal devices.。

【Command mode】

Headend configuration mode

【Default】

Not compatible with 64 terminal devices.

【Use guide】

NO

【example】

GD.LINK(config-headend)# compat enable

【Related command】

NO

【Special notes】

NO

3.15 configuration of data interface on the headend

3.15.1 port data

【Command description】

Enter the configuration mode of the data interface on the headend

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)# port data

GD.LINK(config-data)#

【Related command】

NO

【Special notes】

NO

3.15.2 aging

【Command description】

aging {enable | disable}: The MAC address aging function of the data port on the switch.

【Parameter description】

NO

【Command mode】

Headend uplink port configuration mode

【Default】

Enable

【Use guide】

The MAC address aging function of the uplink data port cannot be turned off in normal use. The MAC address aging function can only be turned off when there is a long-term unidirectional downlink data stream

【example】

GD.LINK(config)# port data

GD.LINK(config-data)#

GD.LINK(config-data)# aging disable

success

GD.LINK(config-data)#

【Related command】

NO

【Special notes】

In a normal network environment, there will be no one-way downlink traffic for a long time, so the MAC address aging function cannot be turned off by default.

3.15.3 storm-control speed

【Command description】

storm-control (unknown | broadcast | multicast) speed <0-1000000>: Configure the limit rate of storm control for the uplink data port (unknown unicast, broadcast, multicast).

【Parameter description】

<0-1000000>: XXXX, unit:kbps.

【Command mode】

Headend uplink port configuration mode

【Default】

1600

【Use guide】

NO

【example】

GD.LINK(config)# port data

GD.LINK(config-data)#

GD.LINK(config-data)# storm-control unknown speed 10000

success

GD.LINK(config-data)#

【Related command】

storm-control unknown {enable | disable}

【Special notes】

NO

3.15.4 storm-control

【Command description】

storm-control (unknown | broadcast | multicast) {enable | disable}: Configure the limit switch of storm control for the uplink data port (unknown unicast, broadcast, multicast).

【Parameter description】

NO

【Command mode】

Headend uplink port configuration mode

【Default】

enable

【Use guide】

NO

【example】

GD.LINK(config)# port data

GD.LINK(config-data)#

GD.LINK(config-data)# storm-control unknown disable

success

GD.LINK(config-data)#

【Related command】

NO

【Special notes】

NO

3.16 EOC interface configuration of headend

3.16.1 eoc-port tx-pause {enable | disable|auto}

【Command description】

Send flow control of EOC chip interface

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

Disable

【Use guide】

It is recommended to shut down the normal use of network environment. When testing the uplink forwarding performance of multi-module devices and testing the online performance of single module dual uplink devices, it is recommended to set to auto mode.

【example】

GD.LINK(config)# eoc-port tx-pause enable

【Related command】

NO

【Special notes】

Auto mode is to automatically set the flow control of the EOC chip interface according to the negotiation rate of the upper interface. When the negotiation result is not 1000m, turn on the flow control. Otherwise, turn off the flow control.

3.17 headend management command

3.17.1 show headend

【Command description】 **show headend <0-31>**: Displays the head end configuration.

show headend: Display chip information of headend

【Parameter description】

NO

【Command mode】

Privileged mode

【Default】

【Use guide】

NO

【example】

GD.LINK# show headend

NO	Headend ID	Type	MAC	CPE Count
1	0	INTL74	00:23:1f:ff:ff:ff	0

GD.LINK#

GD.LINK# show headend 0

aging time-override enable 10 10

cco-learn disable

cco-tx-fc enable

cco-rx-fc enable

compat disable

igmp-snooping disable

silence-time 3

freq-band enable 7500 67500

tx-power 118

anyone allowed

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.17.2 show headend firmware

【Command description】

show headend firmware: Display header firmware and PIB file version information

【Parameter description】

NO

【Command mode】

Privileged mode

【Default】

【Use guide】

NO

【example】

GD.LINK# show headend firmware

NO	ID	MAC	Firmware	PIB
1	0	00:23:1f:ff:ff:ff	INT7400-MAC-7-1-7131-00-17-20131108-FINAL-AR7410-A	7.1.0

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.17.3 show device data rate

【Command description】

show device data rate: Display the up and down speed of the headedn equipment.

【Parameter description】

NO

【Command mode】

Privileged mode

【Default】

【Use guide】

NO

【example】

GD.LINK# show device data rate

Upstream Rate : 20Kbps

Downstream Rate : 5Kbps

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.17.4show device data statistic

【Command description】 This command is used to check the message receiving and sending statistics of the upper interface

【Parameter description】

NO

【Command mode】

Privileged mode

【Default】

【Use guide】

NO

【example】

GD.LINK# show device data statistic

rx-packets	rx-bytes	tx-packets	tx-bytes
36	4279	0	0

【Related command】

NO

【Special notes】

RX packets: number of messages received by the upper interface

RX bytes: the number of bytes received by the upper interface

TX packets: number of messages sent by the upper interface

TX bytes: the number of bytes of the message sent by the upper interface

【Command description】 This command is used to view and clear the message receiving and sending statistics of the upper interface.

【Parameter description】

NO

【Command mode】

Privileged mode

【Default】

【Use guide】

NO

【example】

GD.LINK# clear device data statistic

【Related command】

NO

【Special notes】

NO

3.18 terminal storm control

3.18.1 storm-control

【Command description】

storm-control (*broadcast|multicast|unknown*) (*on|off*) : Turn on / off the storm control of the message specified by the terminal;

storm-control speed-pps (*10|20|40|80|160|320|640|1280|2560*) ; Configure the rate of storm control.

【Parameter description】

Broadcast: control the storm control of broadcast;

Multicast: control the storm control of multicast;

Unknown: storm control to control unknown unicast;

On: turn on storm control;

Off: turn off storm control;

(10|20|40|80|160|320|640|1280|2560): Unit: number of messages / second.

【Command mode】

Template configuration mode

【Default】

Broadcast storm control on;

Multicast storm control is off;

Unknown unicast storm control is off.

Storm control rate: 80pps

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# storm-control broadcast on

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.19 Terminal port isolation configuration

3.19.1 port isolation

【Command description】

port isolation (*enable|disable*). Turn on / off the port isolation function of the terminal

【Parameter description】

Enable: enable port isolation;

Disable: disable port isolation.

【Command mode】

Template configuration mode

【Default】

Port isolation closed.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# port isolation enable

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.20 terminal 802.1Q configuration

3.20.1 8021q

【Command description】

8021q (*on|off*): Enable / disable 802.1Q mode of terminal.

【Parameter description】

On: enable 802.1Q;

Off: disable 802.1Q.

【Command mode】

Template configuration mode

【Default】

802.1q off.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)#8021q on

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.21 upport configuration on terminal

3.21.1 upport mode

【Command description】

upport mode (*access|trunk*): Set the tag mode of the upport on the terminal.

【Parameter description】

If the access mode is set, the tag will be stripped from the message sent from the upper interface, and the upper interface can receive untag and tag message (the VLAN of tag must be the access VLAN of any CPE port). Generally, the upper interface of single service is configured as access mode;

If the uplink port is set to trunk mode, all VLANs will be added to the uplink port (the added VLAN includes access VLAN of CPE port and service VLAN of WiFi)

【Command mode】

Template configuration mode

【Default】

The upper port is trunk mode.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# upport mode access

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.21.2 upport access-vlan

【Command description】

upport access-vlan <1-4094>: Set the access VLAN of the upport on the terminal

【Parameter description】

<1-4094>: VLAN ID.

【Command mode】

Template configuration mode

【Default】

The access VLAN of the upper port is 1.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# upport access-vlan 100

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.21.3 upport tx-rate

【Command description】

upport tx-rate < 1-100000 >: Set the tx- rate of the upport on the terminal;

upport tx-rate off: There is no limit to the packet rate of the upport on the terminal.

【Parameter description】

< 1-100000 >: unit: kbps。

【Command mode】

Template configuration mode

【Default】

There is no limit to the packet rate of the upport on the terminal.。

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# upport tx-rate 1000

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.21.4 upport rx-rate

【Command description】

upport rx-rate < 1-100000 >: Set the packet receiving rate of the upport on the terminal;

upport rx-rate off: It does not limit the packet receiving rate of the interface on the terminal.

【Parameter description】

< 1-100000 >: unit: kbps。

【Command mode】

Template configuration mode

【Default】

It does not limit the packet receiving rate of the upport on the terminal.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# upport rx-rate 2000

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.22 terminal user port configuration

3.22.1 port

【Command description】

port <1-4> (*enable|disable*): Turn on / off the specified port of the terminal.

【Parameter description】

<1-4>: port ID;

enable: enable port;

disable: disable port

【Command mode】

Template configuration mode

【Default】

Terminal four ports enable

【Use guide】

NO

【example】

GD.LINK# config terminal
GD.LINK(config)# template 1
GD.LINK(template-1)# port 1 enable

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.22.2 port mac-limit

【Command description】

port <1-4> mac-limit <1-31>: Configure the maximum number of MACS allowed to pass through the terminal user port

port <1-4> mac-limit off: Turn off MAC limit function of terminal user port

【Parameter description】

<1-4>: port ID;

<1-31>: MAC number

【Command mode】

Template configuration mode

【Default】

Port1-4 turn off

【Use guide】

NO

【example】

GD.LINK# config terminal
GD.LINK(config)# template 1
GD.LINK(template-1)# port 2 mac-limit 10

success

GD.LINK(template-1)#

【Related command】

cnu mac-limit <1-127>

【Special notes】

The port MAC number limit and the terminal MAC number limit can work at the same time. For example: if the MAC limit of four ports is set to 20, and the terminal MAC limit is set to 60, the upper limit of the individual MAC of four ports is 20, but the total number of terminal Macs cannot exceed 60.

3.22.3 port mode

【Command description】

port <1-4> mode (*access|trunk*): *Configure the TAG mode of the user port*

【Parameter description】

<1-4>: port ID;

If the port is set to access mode, the message sent from the port will strip tag, and the port can only receive untag and PVID tag messages. Generally, the port of single service is configured as access mode;

If the port is set to trunk mode, the message sent from the port will be accompanied with tag, and the port can receive the tag message and untag message of all vids supported by the terminal. In general, multi service ports are configured in trunk mode.

【Command mode】

Template configuration mode

【Default】

The tag mode of the four ports of the terminal is access mode.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# port 2 mode trunk

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.22.4 port access-vlan

【Command description】

port <1-4> access-vlan <1-4094>: *Configure access VLAN of user port VLAN。*

【Parameter description】

<1-4>: port ID;

<1-4094>: VLAN ID。

【Command mode】

Template configuration mode

【Default】

The access VLAN of all four ports of the terminal is 1.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# port 2 access-vlan 20

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.22.5 port tx-rate

【Command description】

port <1-4> tx-rate <1-100000>: Configure the end-user port's packet rate

port <1-4> tx-rate off: It does not limit the end-user port's packet rate.

【Parameter description】

<1-4>: port ID;

<1-100000>: unit: kbps。

【Command mode】

Template configuration mode

【Default】

It does not limit the packet rate of the four ports of the terminal.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# port 2 tx-rate 10000

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.22.6 port rx-rate

【Command description】

port <1-4> rx-rate <1-100000>: Configure the packet receiving rate of the end user port

port <1-4> rx-rate off: It does not limit the packet receiving rate of the terminal user port.

【Parameter description】

<1-4>: port ID;

<1-100000>: unit: kbps。

【Command mode】

Template configuration mode

【Default】

The packet receiving rate of the four user ports of the terminal is not limited.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# port 2 rx-rate 1000

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.22.7 port nego

【Command description】

port <1-4> nego (auto | force): Terminal port negotiation mode configuration.式

【Parameter description】

<1-4>: port ID

Auto: set the negotiation mode to self negotiation;

Force: set negotiation mode to force

【Command mode】

Template configuration mode

【Default】

auto。

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# port 2 nego force

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.22.8 port speed

【Command description】

port <1-4> speed (10 | 100): Terminal port rate configuration.

【Parameter description】

<1-4>: port ID

(10 | 100): unit: Mbps

【Command mode】

Template configuration mode

【Default】

100M。

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# port 2 speed 10

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.22.9 port duplex

【Command description】

port <1-4> duplex (full | half): Terminal port duplex mode configuration

【Parameter description】

<1-4>: port ID

full:full duplex

half:half duplex

【Command mode】

Template configuration mode

【Default】

full

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# port 2 duplex half

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.22.10 port dot1p

【Command description】

port <1-4> dot1p <0-7>: Terminal port 802.1p priority configuration

【Parameter description】

<1-4>: port ID

<0-7>: 802.1p priority

【Command mode】

Template configuration mode

【Default】

0

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# port 2 dot1p 5

success

GD.LINK(template-1)#

【Related command】

NO

【Special notes】

NO

3.22.11 port trunk-vlan

【Command description】

port <1-4> trunk-vlan [WORD] Configure trunk VLANs for terminal ports VLANs。

【Parameter description】

<1-4>: port ID

[WORD]: VLANs string, supported formats are: (1,3,5,7), (1,3-5,7), (1-7). As no in the command Word means clear trunk VLANs of the specified port

【Command mode】

Template configuration mode

【Default】

NO trunk VLAN

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# template 1

GD.LINK(template-1)# port 2 trunk-vlan 1-3

success

GD.LINK(template-1)#

【Related command】

NO

3.23 terminal management command

3.23.1 reboot cpe

【Command description】

reboot cpe online: Restart all online CPEs;

reboot cpe X:X:X:X:X: Restart specified CPE

【Parameter description】

NO

【Command mode】

CPE operation mode.

【Default】

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# cpe

GD.LINK(cpe)# reboot cpe online

*Jun 01 13:13:43.618 %WIFI-5-WIFIOFFLINE:CPE(00:23:1f:30:16:ec):wifi is offline
 *Jun 01 13:13:43.619 %STATION-5-RESET:CPE(00:23:1f:30:16:ec): tei 3 reset, INTL74
 00:23:1f:30:16:ec: success
 *Jun 01 13:13:43.627 %STATION-5-RESET:CPE(00:23:1f:30:21:41): tei 2 reset, INTL74
 00:23:1f:30:21:41: success
 GD.LINK(cpe)#
 【Related command】
 NO
 【Special notes】
 NO

3.23.2 clear cpe port stat

【Command description】
clear cpe X:X:X:X:X port <1-5> stat: Clear the message statistics of CPE port。
clear cpe X:X:X:X:X stat : Clear the message statistics of all CPE ports
 【Parameter description】
 X:X:X:X:X: CPE MAC address
 <1-5>: 1-4: Represents the four user ports of the terminal, 5: the upper interface of the terminal.。
 【Command mode】
 CPE operation mode.
 【Default】
 【Use guide】
 NO
 【example】
 GD.LINK# config terminal
 GD.LINK(config)# cpe
 GD.LINK(cpe)# clear cpe 00:23:1f:30:16:ec port 1 stat
 success
 GD.LINK(cpe)#
 【Related command】
 NO
 【Special notes】
 NO

3.23.3 show cpe

【Command description】
show cpe: Display basic information of all online terminals;
show cpe phy: Display the PHY rate, SNR and attenuation value of all online terminals
show cpe port: Display port information of all online terminals;

show cpe firmware: Display firmware and PIB file version information of all online terminals;

show cpe oasclient: Display the oasclient information of all online terminals;

show cpe X:X:X:X:X: Display all information of the designated terminal;

show cpe <0-31> <1-1024>: Display all information of the specified terminal.

【Parameter description】

X:X:X:X:X: Terminal MAC address;

<0-31>: headend ID

<1-1024>: CPE TEI。

【Command mode】

Privilege mode

【Default】

【Use guide】

NO

【example】

Example 1: display basic information of all online terminals

GD.LINK# show cpe

Headend: 0

NO	Model	Type	TEI	MAC	Template Name	Up Time	Online Time
1	CA5024W	INTL74	3	00:23:1f:30:16:ec	1 1970-01-01 13:14:24	0:16:20	
2	CA5024	INTL74	2	00:23:1f:30:21:41	1 1970-01-01 13:14:15	2:17:03	

Example 2: display port information of all online terminals

GD.LINK# show cpe port

Headend: 0

TEI	MAC	Port	Duplex	Link	VID	Mode	LoopStatus	Speed
3	00:23:1f:30:16:ec	1	None	Down	None	None	Normal	None
3	00:23:1f:30:16:ec	2	Full	Up	None	None	Normal	100M
3	00:23:1f:30:16:ec	3	Full	Up	None	None	Normal	100M
3	00:23:1f:30:16:ec	4	Full	Up	None	None	Normal	100M
2	00:23:1f:30:21:41	1	None	Down	None	None	Normal	None
2	00:23:1f:30:21:41	2	None	Down	None	None	Normal	None
2	00:23:1f:30:21:41	3	None	Down	None	None	Normal	None
2	00:23:1f:30:21:41	4	None	Down	None	None	Normal	None

Example 3: display oasclient information of all online terminals

GD.LINK# show cpe oasclient

Headend: 00:23:1f:ff:ff:ff

NO	TEI	MAC	OasClient
1			2

00:23:1f:01:02:03

OAS-Client-7-1-3-20150629-00-WIFI-AR9331-switch-RTL8306E-GD

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.23.4 show mac-address-table

【Command description】

Display terminal MAC and IP information.

【Parameter description】

cpe-MAC: Display the MAC and IP of all users under a terminal under the office;

user-MAC : Display the terminal MAC corresponding to a user.

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show mac-address-table

cpe-MAC station mac address

user-MAC station mac address

<cr>

GD.LINK#

Display when no user:

GD.LINK# show mac-address-table

user-IP	user-MAC	cpe-MAC
=====		
---	---	00:23:1f:31:1c:60
---	---	00:23:1f:30:1c:fb
=====		

GD.LINK#

Display when there are users:

GD.LINK# show mac-address-table

user-IP	user-MAC	cpe-MAC
---------	----------	---------

```
=====
192.168.98.100      ec:88:8f:eb:16:53      00:23:1f:31:1c:60
192.168.98.200      00:1f:23:00:01:03      00:23:1f:30:1c:fb
=====
```

GD.LINK#

User IP and MAC display under a terminal:

GD.LINK# show mac-address-table cpe-MAC 00:23:1f:31:1c:60

```
=====
user-IP      user-MAC      cpe-MAC
=====
192.168.98.100      ec:88:8f:eb:16:53      00:23:1f:31:1c:60
=====
```

GD.LINK#

Display when entering the wrong terminal address:

GD.LINK# show mac-address-table cpe-MAC 00:00:00:00:00:00

```
=====
user-IP      user-MAC      cpe-MAC
=====
cpe-MAC address error!
=====
```

GD.LINK#

MAC display of terminal corresponding to a user:

GD.LINK# show mac-address-table user-MAC 00:1f:23:00:01:03

```
=====
user-IP      user-MAC      cpe-MAC
=====
192.168.98.200      00:1f:23:00:01:03      00:23:1f:30:1c:fb
=====
```

GD.LINK#

Display when entering the wrong user address:

GD.LINK# show mac-address-table user-MAC 00:00:00:00:00:00

```
=====
user-IP      user-MAC      cpe-MAC
=====
user-MAC address error!
=====
```

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.23.5 show cpe-log

【Command description】

Display the system log of the terminal.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show cpe-log

00:23:1f:30:29:54 ON-LINE Jan 01 08:01:09.333

00:23:1f:30:29:54 OFF-LINE Jan 01 08:01:07.991

00:23:1f:30:29:54 ON-LINE Jan 01 08:00:45.511

00:23:1f:30:29:54 OFF-LINE Jan 01 08:01:49.186

GD.LINK#

【Related command】

NO

【Special notes】

NO

3.24 maximum number of online CPEs

3.24.1 max-cnu-num

【Command description】

max-cnu-num <1-256>: In global mode, configure the maximum number of CPEs online, and the maximum number of CPEs configured will affect all CPEs under the whole Bureau;

max-cnu-num <1-64> : In the headend mode, the maximum number of online CPEs is configured, and the maximum number of configured CPEs will affect all CPEs under the head end

no max-cnu-num:

Execute the command in global mode to limit the maximum number of online CPEs to the default value;

Execute the command in the header mode to limit the maximum number of online CPEs to the default value;;

【Parameter description】

Different product types support different maximum number of configurable online CPEs. If the configured maximum number of online CPEs exceeds the supported number of configurable CPEs, the configuration fails.

Ca5204d: the maximum number of configurable global CPEs supported is limited to 128

The maximum number of CPEs supported for configurable headers is limited to: 64

Other interlon office end: the maximum number of global configurable CPEs supported is limited to: 64

The maximum number of CPEs supported for configurable headers is limited to: 64

【Command mode】

Global mode / headend mode

【Default】

Ca5204d: global maximum number of CPEs limit default value: 128

The default value of the maximum number of CPE at the head end is 64

Other Intel lon office: global maximum number of CPEs limit default value: 64

The default value of the maximum number of CPEs at the head end is: 64

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# max-cnu-num 50

GD.LINK(config)#

【Related command】

NO

【Special notes】

For a CPE, only after it has passed the maximum number of CPE limited certification and black and white list certification can it finally go online.

3.25 number limit of terminal MACs

3.25.1 cnu mac-limit

【Command description】

cnu mac-limit <1-127>: Configure the maximum number of MAC allowed by the terminal;

cnu mac-limit off: Turn off the terminal MAC restriction function.

【Parameter description】

<1-127>: MAC numbers

【Command mode】

Template configuration mode

【Default】

Terminal MAC limit function is off.

【Use guide】

NO

【example】

GD.LINK(config)# template 1

GD.LINK(template-1)# cnu mac-limit 10

success

GD.LINK(template-1)#

【Related command】

port <1-4> mac-limit <1-31>

【Special notes】

The port MAC number limit and the terminal MAC number limit can work at the same time. For example: if the MAC limit of four ports is set to 20, and the terminal MAC limit is set to 60, the upper limit of the individual MAC of four ports is 20, but the total number of terminal Macs cannot exceed 60.

3.25.2 terminal information managementcnu mac

【Command description】

cnu mac X:X:X:X:X username WORD: Configure terminal user name

cnu mac X:X:X:X:X phone WORD: Configure end user phone

cnu mac X:X:X:X:X addr WORD: Configure the end user's home address

cnu mac X:X:X:X:X description WORD: Add description information to end users

no cnu mac X:X:X:X:X: Delete a terminal information management entry

【Parameter description】

X:X:X:X:X: Terminal MAC address

username WORD: User name cannot be longer than 36 characters

phone WORD: Phone number cannot be longer than 14 digits

addr WORD: Address characters cannot be longer than 66 characters

description WORD: Description cannot exceed 84 characters

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# cnu mac 00:23:1f:32:78:1b username fdgj

GD.LINK(config)#

【Related command】

【Special notes】

3.26 ONU management

3.26.1 onu

【Command description】 **onu**:

Enter ONU (optical network unit) configuration mode

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# onu

GD.LINK(onu)#

【Related command】

NO

【Special notes】

This command is only supported on multiple in one devices (two in one / three in one) devices.

3.26.2 reboot

【Command description】 **reboot**: restart the ONU module.

【Parameter description】

NO

【Command mode】

ONUConfiguration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# onu

GD.LINK(onu)#reboot

GD.LINK(onu)#

【Related command】

NO

【Special notes】

NO

3.26.3 show onu

【Command description】

show onu [X:X:X:X:X]: View ONU module information.

【Parameter description】

X:X:X:X:X: The MAC address of the ONU.

【Command mode】

ONU mode/Privileged mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show onu

ONU online info:

----MAC Address----Software Version----Hardware Version----

00:23:1F:70:61:27 3.1.7(42973) PL0500130A-V010

GD.LINK#

GD.LINK# configure terminal

GD.LINK(config)#

GD.LINK(config)# onu

GD.LINK(onu)# show onu 00:23:1F:70:61:27

ONU MAC Address: 00:23:1F:70:61:27

Regist status: Unregist

Software Version: 3.1.7(42973)

Hardware Version: PL0500130A-V010

Optical rx-power: -18 dB

Optical tx-power: -40 dB

Optical Temperature: 43

Voltage: 3246 mV

Electricity: 0 mA

GD.LINK(onu)#

【Related command】

NO

【Special notes】

NO

3.27 ORM management

3.27.1 orm

【Command description】 **orm**: enter ORM(Optical Receive Module)光机 Configuration mode

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# orm

GD.LINK(orm)#

【Related command】

NO

【Special notes】

Only three in one devices support this command.

3.27.2 reboot

【Command description】

reboot: Restart the optical machine。

【Parameter description】

NO

【Command mode】

Orm configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# orm

GD.LINK(orm)#reboot

GD.LINK(orm)#

【Related command】

NO

【Special notes】

NO

3.27.3 factory

【Command description】

factory: reset the orm

【Parameter description】

NO

【Command mode】

Orm configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# orm

GD.LINK(orm)#factory

GD.LINK(orm)#

【Related command】

NO

【Special notes】

NO

3.27.4 rf equipoise

【Command description】

rf <1-2> equipoise {0dB | 3 dB | 6 dB | 9dB | 12dB}: RF equalization adjustment of optical machine

【Parameter description】

<1-2>: The way of optical video

{0dB | 3 dB | 6 dB | 9dB | 12dB}: Balance adjustment value, which must be configured as a multiple of 3.

【Command mode】

ORM configuration mode

【Default】

0dB

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# orm

GD.LINK(orm)# rf 1 equipoise 3dB

GD.LINK(orm)#

【Related command】

NO

【Special notes】

NO

3.27.5 rf attenuation

【Command description】

rf <1-2> attenuation <0-20>: Configure the RF output level of the optical machine

【Parameter description】

< 1-2 >: *the way of optical video*

< 0-20 >: *RF output level value. In dB.*

【Command mode】

ORM configuration mode

【Default】

0

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# orm

GD.LINK(orm)# rf 1 attenuation 4

GD.LINK(orm)#

【Related command】

NO

【Special notes】

NO

3.27.6 trap optical rx-power

【Command description】

trap optical rx-power *WORD WORD WORD WORD*: Configure the four levels (ultra-high, high, low, ultra-low) threshold values of the optical input alarm.

trap optical rx-power dead *<0-10>*: Configure the deadband value of optical input alarm of optical machine.

【Parameter description】

Word: threshold value of alarm level. The value range is - 20 ~ 10. In DBM.

< 0-10 >: alarm deadband value range. In dbm

【Command mode】

ORM configuration mode

【Default】

Super high level threshold: 1.

High level threshold: 0.

Low level threshold: - 6.

Ultra low level threshold: - 7.

Deadband: 1.

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# orm

GD.LINK(orm)# trap optical rx-power 10 5 0 -5

GD.LINK(orm)# trap optical rx-power dead 3

GD.LINK(orm)#

【Related command】

NO

【Special notes】

NO

3.27.7 trap rf tx-power

【Command description】

trap rf tx-power <0-150> <0-150> <0-150> <0-150>: Configure the four levels (ultra-high, high, low, ultra-low) threshold values of the radio frequency output alarm of the optical machine.

trap rf tx-power dead <0-150>: Configure the dead band value of the RF output alarm of the optical machine.

【Parameter description】

< 0-150 >: *threshold value of alarm level. Unit: dbmv.*

< 0-150 >: *alarm deadband value range. Unit: dbmv.*

【Command mode】

ORM configuration mode

【Default】

Super high level threshold: 110.

High level threshold: 105.

Low level threshold: 86.

Ultra low level threshold: 80.

Deadband: 2.

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# orm

GD.LINK(orm)# trap rf tx-power 140 100 80 60

GD.LINK(orm)# trap rf tx-power dead 5

GD.LINK(orm)#

【Related command】

NO

【Special notes】

NO

3.27.8 trap temperature

【Command description】

trap temperature WORD WORD WORD WORD: Configure the threshold values of four levels (ultra-high, high, low and ultra-low) of optical temperature alarm.

trap temperature dead <0-127>:

Configure the deadband value of optical temperature alarm.

【Parameter description】

Word: threshold value of alarm level. The value range is - 128 ~ 127. In Celsius.

< 0-127 >: *alarm deadband value range.*

【Command mode】

ORM configuration mode

【Default】

Super high level threshold: 60.

High level threshold: 50.

Low level threshold: 0.

Ultra low level threshold: - 15.

Deadband: 3

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# orm

GD.LINK(orm)# trap temperature 50 40 0 -10

GD.LINK(orm)# trap temperature dead 5

GD.LINK(orm)#

【Related command】

NO

【Special notes】

NO

3.27.9 trap enable/disable

【Command description】

trap {enable | disable}: Turn on / off the optical alarm function.

【Parameter description】

NO

【Command mode】

ORM configuration mode

【Default】

disable

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# orm

GD.LINK(orm)# trap enable

GD.LINK(orm)#

【Related command】

NO

【Special notes】

NO

3.27.10 show orm

【Command description】

show orm: View the optical information.

【Parameter description】

NO

【Command mode】

ORM/Privilege mode

【Default】

disable

【Use guide】

NO

【example】

GD.LINK(config)#

GD.LINK(config)# orm

GD.LINK(orm)# show orm

ORM Information:

Status: Online

SoftWare Version: 40001

HardWare Version: 1.0

Optical Rx Power: Low

RF1 Tx Power: Low

RF2 Tx Power: Low

Temperature: Normal(43)

GD.LINK(orm)#

【Related command】

NO

【Special notes】

NO

Chapter 4 configuration command of IP routing module

4. 1 layer 3 interface configuration command

4.1.1 interface manage-interface

【Command description】

interface manage-interface: Enter in band management port mode;

no interface manage-interface: Close the in band management port.

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# interface manage-interface

GD.LINK(config-if)#

【Related command】

NO

【Special notes】

NO

4.1.2 interface mgmt

【Command description】

interface mgmt: Enter out of band management port mode;

no interface mgmt: Close the out of band management port.

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# interface mgmt

GD.LINK(config-if)#

【Related command】

NO

【Special notes】

NO

4.1.3 [no]ip address

【Command description】

ip address *A.B.C.D a.b.c.d*: Configure the IP address and subnet mask of the management interface;

no ip address *A.B.C.D a.b.c.d*: Delete the specified IP address and subnet mask on the management interface;

ip address dhcp: The configuration management interface dynamically obtains the IP address through DHCP;

no ip address dhcp: Cancel the configuration of the management port to dynamically obtain the IP address through DHCP。

【Parameter description】

A.B.C.D: IP address

a.b.c.d: subnet mask

【Command mode】

Mgmt configuration mode

【Default】

For single uplink device, the default IP address of only in band management is 192.168.1.1;

For dual uplink and dual chip devices, the default IP address for in band management is 192.168.1.1, and the default IP address for out band management is 192.168.2.1.

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# interface manage-interface

GD.LINK(config-if)# ip address 1.1.1.1 255.0.0.0

GD.LINK(config-if)#

【Related command】

NO

【Special notes】

NO

4.1.4 [no]vlan

【Command description】

vlan <1-4094>: In the management interface mode, configure the VLAN to which the management interface belongs;

no vlan: In management port mode, the VLAN of the management port to which the configuration is cancelled.

【Parameter description】

NO

【Command mode】

Mgmt configuration mode

【Default】

NO vlan。

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# interface manage-interface

GD.LINK(config-if)# vlan 100

GD.LINK(config-if)#

GD.LINK(config-if)#no vlan 100

【Related command】

NO

【Special notes】

NO

4.1.5 show manage-interface

【Command description】

show manage-interface: Displays the configuration information of the management interface.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show manage-interface

Management port is br0

```
br0      Link encap: Ethernet HWaddr: 00:23:1F:00:00:00
        inet addr: 1.1.1.1 Bcast: 1.255.255.255 Mask: 255.0.0.0
        UP BROADCAST RUNNING PROMISC MULTICAST  MTU:1500  Metric:1
        RX packets:464 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:233039 (227.5 Kb)  TX bytes:0 (0.0 b)
```

GD.LINK#

【Related command】

NO

【Special notes】

NO

4.1.6 show interface

【Command description】

show interface: Displays information for all interfaces.。

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show interface

```
br0      Link encap: Ethernet HWaddr: 00:23:1F:00:00:00
        inet addr: 1.1.1.1 Bcast: 1.255.255.255 Mask: 255.0.0.0
        UP BROADCAST RUNNING PROMISC MULTICAST  MTU:1500  Metric:1
        RX packets:469 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:235919 (230.3 Kb)  TX bytes:0 (0.0 b)
```

```
eth0     Link encap: Ethernet HWaddr: 00:23:1F:00:00:00
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
```

RX packets:76 errors:0 dropped:0 overruns:0 frame:0
TX packets:420 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:10615 (10.3 Kb) TX bytes:233112 (227.6 Kb)
Interrupt:23

eth1 Link encap: Ethernet HWaddr: 00:23:24:25:33:43
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:368 errors:0 dropped:0 overruns:0 frame:0
TX packets:6749 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:162
RX bytes:217120 (212.0 Kb) TX bytes:8220514 (7.8 Mb)
Interrupt:25

lo Link encap:Local Loopback
inet addr: 127.0.0.1 Mask: 255.0.0.0
UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:2 errors:0 dropped:0 overruns:0 frame:0
TX packets:2 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:178 (178.0 b) TX bytes:178 (178.0 b)

GD.LINK#

【Related command】

NO

【Special notes】

NO

4.1.7 ip route

【Command description】

ip route A.B.C.D A.B.C.D A.B.C.D: Configure static routes.

【Parameter description】

First A.B.C.D: routing segment address;

Second A.B.C.D: subnet mask;

Third A.B.C.D: route next hop address.

【Command mode】

Global configuration mode

【Default】

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# ip route 0.0.0.0 0.0.0.0 192.168.106.5

【Related command】

NO

【Special notes】

当 When both the routing segment address and the routing mask are configured as 0.0.0.0, the default gateway address is actually configured.

4.1.8 show route-table

【Command description】

show route-table: Displays the routing table.

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show route-table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
1.0.0.0	0.0.0.0	255.0.0.0	U	0	0	0	br0

GD.LINK#

【Related command】

NO

【Special notes】

NO

4.1.9 show arp-table

【Command description】

show arp-table: Show ARP table

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show arp-table

IP address	HW type	Flags	HW address	Mask	Device
192.168.0.10	0x1	0x2	54:04:a6:d2:38:f0	*	br0

GD.LINK#

【Related command】

NO

【Special notes】

NO

4. 2 IP layer access control module command

4.2.1 dhcp filter

【Command description】

dhcp filter module: Used to filter parameters related to setting DHCP.

【Parameter description】

dhcp filter set serverport <0-65535>: Configure parameters of DHCP filtering;

dhcp filter {enable |disable}: Enable DHCP filtering.

【Command mode】

NO

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# dhcp filter enable

【Related command】

NO

【Special notes】

NO

4.2.2 ip-access-list add

【Command description】

ip-access-list add A.B.C.D/M: Add the range of IP addresses allowed to access headend;

ip-access-list add A.B.C.D: Add an IP address that allows access to the headend

【Parameter description】

A.B.C.D: IP address;

M: Number of subnet mask bits.

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# ip-access-list add 1.1.1.0/8

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

4.2.3 ip-access-list del

【Command description】

ip-access-list del A.B.C.D/M: Delete a part of the IP address range allowed to access headend;

ip-access-list del A.B.C.D: Delete an IP address that allows access to headend

【Parameter description】

A.B.C.D: IP address;

M: Number of subnet mask bits.

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# ip-access-list del 1.1.1.0/8

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

4.2.4 ip-access-list clean

【Command description】

ip-access-list clean: Clear the list of IP addresses allowed to access headend

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# ip-access-list clean

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

4.2.5 show ip-access-list

【Command description】

show ip-access-list: Displays the list of IP addresses that are allowed to access the headend

【Parameter description】

NO

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show ip-access-list

Access IP-mask number: 3

IP/mask: 1.1.1.0/8

IP/mask: 1.1.1.3/8

IP/mask: 2.2.2.2/8

-----ip access list kernel show (num:2)-----

ipaddress:1.0.0.0, mask:255.0.0.0, action:0

ipaddress:2.0.0.0, mask:255.0.0.0, action:0

-----ip access list kernel show end-----

GD.LINK#

【Related command】

NO

【Special notes】

NO

Chapter 5 network management configuration command

Network management includes two parts: Embedded Web network management and server network management. Among them, the embedded web network management is integrated in the office equipment (such as EoC, OLT, etc.), which is simply configured through the browser; the server network management is installed on the server computer, which manages multiple office equipment through SNMP protocol.

5.1 server network management configuration

The network management platform of GDOS supports SNMPv1, snmpv2c and SNMPv3 protocol standards. Compared with SNMPv1, snmpv2c adds support for multiple variable types and get-bulk access. SNMPv3 provides more secure and reliable access, but also requires more configuration. Snmpv2c protocol can be used for general application.

The system supports the view based access control of SNMPv3. Users can set different read and write views for each group. When using SNMPv1 / 2C to access devices, users can also set different view rules for each community name.

The system supports SNMPv1 and snmpv2c standards for trap sending, and supports trap sending to multiple destination hosts at the same time

5.1.1 snmp-server community

【Command description】 **snmp-server community** *COMMUNITY_RO* [**view** *VIEW_NAME*] **ro** :
Configure SNMPv2 read community name;

snmp-server community *COMMUNITY_RW* [**view** *VIEW_NAME*] **rw**: Configure SNMPv2 write community name.

【Parameter description】

COMMUNITY_RO: Read the community name;

COMMUNITY_RW: Write the community name;;

VIEW_NAME: View name.

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

1. SNMPv1 / V2C;
2. The management end can access the MIB only when using the same community name;
3. Write group name with read / write permission;
4. When configuring a community name, you can specify a view rule for the community name. When you do not specify a view rule, all MIBs on the device are visible to the management side.

【example】

Create read-only community name *community_nms_1*. All MIBs on the device side can be read by using the community name

GD.LINK(config) # **snmp-server community** *community_nms_1* **ro**

Create read-write community name *community_nms_2*. The NMS of the device can be read and written by using the community name_ MIB in view 2

GD.LINK(config) # **snmp-server community** *community_nms_2* **view** *nms_2* **rw**

【Related command】

snmp-server view

【Special notes】

NO

5.1.2 snmp-server user

【Command description】

snmp-server user *USER_NAME* *GROUP_NAME* **v3**: Create SNMPv3 user, which is used for not authenticating the security level of not encrypting;

snmp-server user *USER_NAME* *GROUP_NAME* **v3 auth (md5|sha) AUTH_KEY**: Create SNMPv3 users to authenticate but not encrypt the security level;

snmp-server user *USER_NAME* *GROUP_NAME* **v3 auth (md5|sha) AUTH_KEY priv des PRIV_KEY**: Create SNMPv3 users to authenticate and encrypt the security level.

【Parameter description】

USER_Name: SNMPv3 user name;

GROUP_Name: SNMPv3 group name;

AUTH_ Key: authentication key;

PRIV_ Key: encryption key.

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

1. The authentication mode supports MD5 and Sha, and the encryption mode supports des;
2. The key length shall be at least 8;
3. There can be multiple users in a group, but a user can only belong to one group.

【example】

Create SNMPv3 user `auth_sha_priv_des_User`, which belongs to `auth_sha_priv_des_Group` group. The user uses Sha authentication and DES encryption. The authentication key is 12345678 and the encryption key is 87654321

```
GD.LINK(config) # snmp-server user auth_sha_priv_des_user auth_sha_priv_des_group v3 auth sha 12345678 priv des 87654321
```

【Related command】

snmp-server group

snmp-server view

【Special notes】

NO

5.1.3 snmp-server group

【Command description】

snmp-server group *GROUP_NAME* v3 (noauth|auth|priv): Create SNMPv3 group;

snmp-server group *GROUP_NAME* v3 (noauth|auth|priv) **read** *READ_VIEW_NAME*: Create SNMPv3 group and specify view rules for its reading;

snmp-server group *GROUP_NAME* v3 (noauth|auth|priv) **read** *READ_VIEW_NAME* **write** *WRITE_VIEW_NAME*: Create SNMPv3 group and specify view rules for its read and write.

【Parameter description】

GROUP_ Name: SNMPv3 group name;

READ_ VIEW_ Name: the view name used for read permission;

WRITE_ VIEW_ Name: the name of the view used to write permissions.

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

1. Packet supports three security levels: no authentication, no encryption, authentication only, authentication and encryption;
2. When creating a group, you can configure read and write view rules for the group.

【example】

Create SNMPv3 group auth_sha_priv_des_Group, security level is authentication and encryption, read and write views are NMS_3_view

```
GD.LINK(config) # snmp-server group auth_sha_priv_des_group v3 priv read nms_3_view write nms_3_view
```

【Related command】

snmp-server user

snmp-server view

【Special notes】

NO

5.1.4 snmp-server view

【Command description】

snmp-server view VIEW_NAME OID (included|excluded): Create a view rule.

VIEW_NAME: View name;

OID: View OID;

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

1. Example 1.3 of oid input format indicates the subtree starting with 1.3;
2. Multiple oid rules can be configured for the same view name to be used in combination. Included means to include this subtree, and excluded means to exclude this subtree.

【example】

Create NMS_3_ The view rule of view includes the subtree whose oid starts with 1, but excludes subtree 1.3.6.1.4.1.17409.2.3.

```
GD.LINK(config) # snmp-server view nms_3_view 1 included
```

```
GD.LINK(config) # snmp-server view nms_3_view 1.3.6.1.4.1.17409.2.3 excluded
```

【Related command】

NO

【Special notes】

NO

5.1.5 snmp-server host

【Command description】

snmp-server host A.B.C.D version (v1|v2c) COMMUNITY_NAME [udp-port <0-65535>] :

Configure SNMP trap sending destination IP, version, community name and port number.

【Parameter description】

A.B.C.D: trap destination address;

COMMUNITY_NAME: community name

0-65535: port number。

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

Trap can be sent to multiple destinations or the same address at the same time, but with different versions or community names.

【example】

Add trap sending destination address 192.168.1.1, version snmpv2c, group name trap_community_

3. Use the SNMP trap default port number.

GD.LINK(config) # **snmp-server host 192.168.1.1 version v2c trap_community_3**

【Related command】

NO

【Special notes】

NO

5.1.6 snmp-server contact

【Command description】

snmp-server contact WORD: Configure the identity of the person accessing the management node.

【Parameter description】

WORD: string。

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config) # **snmp-server contact gddz@catvgd.com**

【Related command】

NO

【Special notes】

NO

5.1.7 snmp-server location

【Command description】

snmp-server location *WORD*: Configure the physical location of the access management node

【Parameter description】

WORD: string。

【Command mode】

Global configuration mode

【Default】

China

【Use guide】

NO

【example】

GD.LINK(config) # **snmp-server location** china

【Related command】

NO

【Special notes】

NO

5.1.1 snmp-server trap-authentication

【Command description】

snmp-server trap-authentication: Enable SNMP authentication failed trap.

【Parameter description】

WORD: string。

【Command mode】

Global configuration mode

【Default】

China

【Use guide】

SNMP authentication failure trap is SNMPv2 standard trap. When enabled, this alarm will be generated when the management uses unauthorized community name or user access device.

【example】

GD.LINK(config) # **snmp-server trap-authentication**

【Related command】

NO

【Special notes】

NO

5.2 web configuration command

5.2.1 http server start

【Command description】

Start the embedded network management service.

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

start

【Use guide】

NO

【example】

GD.LINK(config) # http server start

【Related command】

http server stop

【Special notes】

If it is not started, the web page cannot be accessed.

5.2.2 http server stop

【Command description】

Turn off the embedded network management service.

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

start

【Use guide】

NO

【example】

GD.LINK(config) # http server stop

【Related command】

http server start

【Special notes】

NO

Chapter 6 Application module configuration command

6.1 NTP client

6.1.1 ntp start

【Command description】

Start the NTP client.

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

disable

【Use guide】

NO

【example】

GD.LINK(config)#ntp start

【Related command】

NO

【Special notes】

NO

6.1.2 ntp stop

【Command description】

Close the NTP client.

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)#ntp stop

【Related command】

NO

【Special notes】

NO

6.1.3 ntp server-ip

【Command description】

ntp server-ip A.B.C.D: Configure the NTP server IP address.

【Parameter description】

A.B.C.D: The IP address of the server.

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)# ntp server-ip 1.1.1.1

Add NTP server IP 1.1.1.1 !

【Related command】

NO

【Special notes】

NO

6.1.4 ntp set-time-zone

【Command description】

Configure NTP time zone

【Parameter description】

The following time zones are available:

GMT	Greenwich	Mean	Time
GMT+01	European	Central	Time
GMT+02	Egypt	Standard	Time
GMT+03	Eastern	European	Time
GMT+03:30	Iran	Standard	Time
GMT+04	Arabian	Standard	Time
GMT+04:30	Kabul	Time	
GMT+05	West	Asia	Standard Time
GMT+05:30	India	Standard	Time
GMT+05:45	Katmandu	Time	
GMT+06	Central	Asia	Standard
GMT+06:30	Rangoon	Time	
GMT+07	SE	Asia	Standard Time

GMT+08	China	Standard	Time
GMT+09	Tokyo	Standard	Time
GMT+09:30	Australia	Central	Time
GMT+10	AUS	Eastern	Standard Time
GMT+11	Central	Pacific	Standard Time
GMT+12	New Zealand	Standard	Time
GMT+13	GMT+13		
GMT-01	Central	African	Time
GMT-02	Middle	Atlantic	Time
GMT-03	Argentina	Standard	Time
GMT-04	Atlantic	Standard	Time
GMT-05	Indiana	Eastern	Standard
GMT-06	Central	Standard	Time
GMT-07	Arizona	Standard	Time
GMT-08	Pacific	Standard	Time
GMT-09	Alaskan	Standard	Time
GMT-10	Hawaiian	Standard	Time
GMT-11	Samoa	Standard	Time
GMT-12	International Date Line		

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK(config)# ntp set-time-zone GMT

【Related command】

NO

【Special notes】

NO

6.1 system time

6.1.1 show clock

【Command description】

View system time

【Parameter description】

NO

【Command mode】

Privileged mode

【Default】

NO

【Use guide】

GD.LINK# show clock

【example】

NO

6.1.2 clock set

【Command description】

Set system time

【Parameter description】

clock set <hh:mm:ss> day month year

<hh:mm:ss>: Time (hours: Minutes: seconds).

day: date

month: month

year: year

【Command mode】

Privileged mode

【Default】

NO

【Use guide】

GD.LINK# clock set 0:12:30 28 6 2014

【example】

GD.LINK# clock set 0:12:30 28 6 2014

GD.LINK# show clock

Sat Jun 28 00:12:32 2014

6.2 syslog

6.2.1 show syslog

【Command description】

show syslog config: Display syslog configuration;

show syslog (*important* | *middle* | *normal*) Show log of specified type

show syslog (*emergencies*|*alerts*|*critical*|*errors*|*warnings*|*notifications*|*informational*|*debugging*) :

Show logs at the specified level

【Parameter description】

important: (emergencies & alerts & critical & errors)

middle: (warnings & notifications)

normal: (informational & debugging)

emergencies: EMERY

alerts: ALERT

Critical: fatal error crit, critical problem of equipment, including process crash, overflow;

Error: error err anything wrong, error event;

Warnings: warning any alarm, warning event;

Notifications: prompt for common but important events;

Information: information info, useful information;

debugging: Diagnosis debug, for debugging, program, product equipment.

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# show syslog config

```
Facility                : local0
Logging State           : ON
Syslog Severity Logging On Console : notifications
Syslog Severity Logging In File   : notifications
Syslog Severity Logging To Server : notifications
AUTO FTP Upload State      : OFF
AUTO FTP Upload Syslog Type     :
Syslog Servers            :
AUTO FTP Upload Servers     :
```

GD.LINK#

【Related command】

NO

【Special notes】

NO

6.2.2 clear syslog

【Command description】

clear syslog: Clear all logs

clear syslog (*important* | *middle* | *normal*): Clear all logs in the specified log file

【Parameter description】

important: (emergencies & alerts & critical & errors)

middle: (warnings & notifications)

normal: (informational & debugging)

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# clear syslog

GD.LINK#

【Related command】

NO

【Special notes】

NO

6.2.3 logging trap

【Command description】

logging trap {*emergencies*|*alerts*|*critical*|*errors*|*warnings*|*notifications*|*informational*|*debugging* } :

Configure which level of syslog records need to be sent to the log server. If it is configured as warnings, the energy, alerts, critical and error log records higher than warnings will be sent to the log server;

no logging trap: Restore the logging trap configuration to the default configuration.

【Parameter description】

Emergencies: emergency, any emergency, including system panic;

Alerts: alert, any occurrence requiring immediate attention;

Critical: fatal error crit, critical problem of equipment, including process crash, overflow;

Error: error thing wrong, error event;

Warnings: warning any alarm, warning event;

Notifications: prompt for common but important events;

Information: information info, useful information;

Debugging: diagnostic debug, used for debugging, program, product equipment.

【Command mode】

Global configuration mode

【Default】

notifications

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# logging trap errors

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

6.2.4 logging host ip-address

【Command description】

logging host ip-address *A.B.C.D*: Configure the log server. The maximum support configuration is 4 log servers;

no logging host ip-address *A.B.C.D*: Delete the specified log server.

【Parameter description】

A.B.C.D: The IP address of the log server.

【Command mode】

Global configuration mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# logging host ip-address 2.2.2.2

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

6.2.5 logging facility

【Command description】

logging facility *{local0|local1|local2|local3|local4|local5|local6|local7}*: configure the facility of the log server;

no logging facility: Restore logging facility configuration to default.

【Parameter description】

local0: local use 0;

local1: local use 1;

local2: local use 2;

local3: local use 3;

local4: local use 4;

local5: local use 5;

local6: local use 6;

local7: local use 7。

【Command mode】

Global configuration mode

【Default】

local0。

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# logging facility local2

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

6.2.6 logging console

【Command description】

Logging console

{emergencies|alerts|critical|errors|warnings|notifications|informational|debugging }: Configure which level of syslog records need to be printed on the console. If it is configured as warnings, then the events, alerts, critical and error log records higher than warnings will be printed on the console;

no logging console: Restore the logging console configuration to the default configuration.

【Parameter description】

Emergencies: emergency, any emergency, including system panic;

Alerts: alert, any occurrence requiring immediate attention;

Critical: fatal error crit, critical problem of equipment, including process crash, overflow;

Error: error erranything wrong, error event;

Warnings: warning any alarm, warning event;

Notifications: prompt for common but important events;

Information: information info, useful information;

Debugging: diagnostic debug, used for debugging, program, product equipment.

【Command mode】

Global configuration mode

【Default】

notifications

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# logging console errors

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

6.2.7 logging file

【Command description】

logging file

{emergencies|alerts|critical|errors|warnings|notifications|informational|debugging }: Configure which level of syslog records need to be saved to the log file. If it is configured as warnings, the energy, alerts, critical and error log records higher than warnings will be saved to the log file;

No logging file: restore the logging file configuration to the default configuration.

【Parameter description】

Emergencies: emergency, any emergency, including system panic;

Alerts: alert, any occurrence requiring immediate attention;

Critical: fatal error crit, critical problem of equipment, including process crash, overflow;

Error: error erranything wrong, error event;

Warnings: warning any alarm, warning event;

Notifications: prompt for common but important events;

Information: information info, useful information;

Debugging: diagnostic debug, used for debugging, program, product equipment.

【Command mode】

Global configuration mode

【Default】

notifications

【Use guide】

NO

【example】

GD.LINK# config terminal
GD.LINK(config)# logging file errors
GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

6.2.8 logging on

【Command description】

logging on: Turn on the logging function

no logging on: Turn off logging.

【Parameter description】

NO

【Command mode】

Global configuration mode

【Default】

enable。

【Use guide】

NO

【example】

GD.LINK# config terminal
GD.LINK(config)# logging on
GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

6.2.9 logging auto-ftp-upload

【Command description】

logging auto-ftp-upload on: Enable the automatic FTP upload function of log files;

no logging auto-ftp-upload on: Turn off the automatic FTP upload function of log files;

logging auto-ftp-upload type (*important* | *middle* | *normal*): Configure the type of log file to be uploaded to the FTP server automatically

.no logging auto-ftp-upload type (*important* | *middle* | *normal*): Undo the specified log file type to be uploaded to FTP server automatically

logging auto-ftp-upload server A.B.C.D user WORD password WORD: Configure the IP address, authentication user name and password of the FTP server for log upload. Maximum allowed configuration of 4 FTP servers

no logging auto-ftp-upload server A.B.C.D: Delete the specified FTP server

【Parameter description】

Important: the corresponding log level of this file is (Energies & alerts & Critical & errors)

Middle: the corresponding log level of this file is (warnings & notifications)

Normal: the corresponding log level of this file is (informational & debugging)

A. B.c.d: IP address of FTP server

First word: user name string, string length cannot exceed 32 characters

Second word: password string, string length cannot exceed 32 characters

【Command mode】

Global configuration mode

【Default】

disable

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# logging auto-ftp-upload on

GD.LINK(config)#

【Related command】

NO

【Special notes】

NO

Chapter 7 basic network detection command

7.1 telnet

【Command description】

telnet A.B.C.D: Remotely log on to a server.

【Parameter description】

A.B.C.D: Is the IP address of the remote server.

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# telnet 127.0.0.1

Entering character mode

Escape character is '^'].

Welcome to GuangDa operating system (version 3.1.2(EGD1) release(4692), hard(2.0) Oct 24 2012--16:22:29).

Copyright 1996-2012.

GD.LINK>

【Related command】

NO

【Special notes】

NO

7.2 traceroute ip

【Command description】

traceroute ip A.B.C.D: Use traceroute for network detection.

【Parameter description】

A.B.C.D: Indicates the IP address of the device to be detected.

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# traceroute ip 127.0.0.1

traceroute to 127.0.0.1 (127.0.0.1), 30 hops max, 38 byte packets

1 127.0.0.1 (127.0.0.1) 0.457 ms 0.358 ms 0.293 ms

【Related command】

NO

【Special notes】

NO

7.3 ping

【Command description】

ping ip A.B.C.D size <36-30000>: The reachability of the target device is detected by sending ICMP echo message.

【Parameter description】

A.B.C.D: Indicates the IP address of the device to be detected;

size: Configure the length of the probe message.

【Command mode】

Privilege mode

【Default】

NO

【Use guide】

NO

【example】

GD.LINK# ping ip 192.168.1.10

PING 192.168.1.10: 64 data bytes ICMP-ID is 56

64 bytes from 192.168.1.10: icmp_seq=0 ttl=64 time=0.9 ms

64 bytes from 192.168.1.10: icmp_seq=1 ttl=64 time=0.7 ms

64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=0.7 ms

64 bytes from 192.168.1.10: icmp_seq=3 ttl=64 time=1.0 ms

64 bytes from 192.168.1.10: icmp_seq=4 ttl=64 time=1.0 ms

64 bytes from 192.168.1.10: icmp_seq=5 ttl=64 time=1.0 ms

【Related command】

NO

【Special notes】

During Ping, you can terminate by typing the q character.

7.4 ssh

7.4.1 ip ssh server

【Command description】

ip ssh server {start | stop | restart}

Start / shut down / restart ssh server

【Parameter description】

Start: start ssh server

Stop: shut down ssh server

Restart: restart ssh server

【Command mode】

Global mode

【Default】

enable

【Use guide】

NO

【example】

Turn on ssh server

GD.LINK(config)# ip ssh server start

7.4.2 ip ssh user

【Command description】

ip ssh user Enter SSH user configuration mode

username *username-code user-password-code* Configure SSH user name and password

no username *username-code* Delete SSH user account

【Parameter description】

username-code : user name

user-password-code: password

【Command mode】

Global mode

【Default】

NO

【Use guide】

NO

【example】

Username:admin, password:admin

GD.LINK(config)# ip ssh user

GD.LINK(config-ssh-usr)#username admin admin

7.4.3 ip ssh port

【Command description】

ip ssh port *listen-port-number*

Configure ssh server listening port

no ip ssh port

Restore the default listening port, port 22

【Parameter description】

listen-port-number: Ssh server listening port, range<2000-10000>

【Command mode】

Global

【Default】

The default listening port is 22

【Use guide】

NO

【example】

Configure listening port as 2000

GD.LINK(config)# ip ssh port 2000

7.4.4 ip ssh generate-key

【Command description】

ip ssh generate-key [**dss** | {**rsa modulus** *modulus-length* [**passphrase** *phrase-password*]}]

Generate SSH key for the encryption algorithm of SSH channel.。

【Parameter description】

dss: dss key type (optional parameter)

rsa: rsa key type (optional parameter)

Module length: key length, range < 768-2048 >

Phrase password: key password (optional parameter).

When the key type is not specified, the RSA type key is generated, and the key length is 2048

【Command mode】

Global mode

【Default】

NO

【Use guide】

NO

【example】

Generate RSA key with length of 1000

GD.LINK(config)# ip ssh generate-key rsa modulus 1000

7.4.5 ip ssh destory-key

【Command description】

ip ssh destory-key [**rsa** | **dss**]

Delete SSH key

【Parameter description】

rsa: delete rsa type key

dss: delete dss type key

If no key type is specified, all SSH keys will be deleted.。

【Command mode】

Global mode

【Default】

NO

【Use guide】

NO

【example】

Delete all SSH keys

GD.LINK(config)# ip ssh destory-key

Chapter 8 local terminal upgrade

8.1 headend upgrade

8.1.1 update fw

【Command description】

update fw *WORD*: Upgrade the firmware for the headend

【Parameter description】

WORD: Firmware name in the local file system (refer to FTP download command to download firmware file to the local file system).

【Command mode】

Headend configuration mode

【Default】

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config-headend)# update fw INT7400-MAC-7-1-7131-00-17-20131108-FINAL.nvm

【Related command】

NO

【Special notes】

8.1.2 After upgrading, you need to restart the headend

8.1.3 update pib

【Command description】

update pib *WORD*: Upgrade the PIB file for the headend

【Parameter description】

WORD: PIB file name in the local file system (refer to FTP download command to download PIB file to the local file system).

【Command mode】

Headend configuration mode

【Default】

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config-headend)# update pib nc.pib

【Related command】

NO

【Special notes】

After upgrading, you need to restart the Office

8.2 terminal upgrade

8.2.1 auto-update pib cpe

【Command description】

auto-update pib cpe **WORD file** **WORD:** Configure the PIB file name of automatic upgrade for CPE of specified type;

auto-update pib cpe **WORD (enable|disable):** Turn on / off the PIB file automatic upgrade function of the specified type CPE.

auto-update pib cpe **WORD del :** Delete the configured terminal firmware auto upgrade entry

【Parameter description】

First word: CPE type name;

Second word: the name of the upgraded PIB file (refer to FTP download command to download the PIB file to the local file system).

【Command mode】

CPE Operation mode.

【Default】

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# cpe

GD.LINK(cpe)# auto-update pib cpe CA5024 enable

success

GD.LINK(cpe)#

NO

NO

【Command description】

auto-update fw cpe WORD (enable|disable): Turns on / off the firmware automatic upgrade feature for the specified type of CPE.

【Parameter description】

The second word: the name of the upgraded firmware (refer to the FTP download command to download the firmware file to the local file system);

Disable: turn off the firmware automatic upgrade function.

CPE operation mode.

【Use guide】

NO

GD.LINK# config terminal

GD.LINK(config)# cpe

GD.LINK(cpe)#	auto-update	fw	cpe	CA5024	file
INT7400-MAC-7-1-7131-00-17-20131108-FINAL.nvm					

success

GD.LINK(cpe)#

NO

NO

【Command description】

ftp-load auto-update-file A.B.C.D WORD WORD FILENAME : FTP automatically matches the terminal to upgrade after downloading the upgrade file

【Parameter description】

A. B.C.D: IP address of FTP server.

First word: user name

Second word: user password

Filename: automatically upgrade filename

【Command mode】

CPE operation mode.

【Default】

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# cpe

GD.LINK(cpe)#ftp-load auto-update-file 192.168.1.10 2 2

INT7400-MAC-7-1-7131-00-17-20131108-FINAL.nvm

ftp download: 120 kb.--100%.

success

GD.LINK(cpe)#

【Related command】

NO

【Special notes】

NO

8.2.4 update fw

【Command description】

update fw online WORD: Firmware upgrade for all online terminals;

update fw mac X:X:X:X:X:X WORD: Upgrade the firmware for the specified online terminal.

【Parameter description】

WORD : Firmware name in the local file system (refer to FTP download command to download firmware file to the local file system);

X:X:X:X:X:X: MAC address of the terminal.

【Command mode】

CPE operation mode.

【Default】

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# cpe

GD.LINK(cpe)# update fw online INT7400-MAC-7-1-7131-00-17-20131108-FINAL.nvm

success

GD.LINK(cpe)#

【Related command】

NO

【Special notes】

Restart the terminal after upgrading

8.2.5 update pib

【Command description】

update pib online WORD: Upgrade PIB files for all online terminals;

update pib mac X:X:X:X:X WORD: Upgrade the PIB file for the specified online terminal.

【Parameter description】

WORD: PIB file name in the local file system (refer to FTP download command to download PIB file to the local file system);

X:X:X:X:X: MAC address of terminal

【Command mode】

CPE operation mode.

【Default】

【Use guide】

NO

【example】

GD.LINK# config terminal

GD.LINK(config)# cpe

GD.LINK(cpe)# update pib online INT7400-MAC-7-1-7131-00-17-20131108-FINAL.pib

success

GD.LINK(cpe)#

【Related command】

NO

【Special notes】

Restart the terminal after upgrading

8.2.6 show auto-update

【Command description】

show auto-update: Displays the auto upgrade configuration.

【Parameter description】

【Command mode】

Privilege mode

【Default】

【Use guide】

NO

【example】

GD.LINK# show auto-update

auto-update fw cpe CA5024 file INT7400-MAC-7-1-7131-00-17-20131108-FINAL.nvm

auto-update fw cpe CA5024 enable

GD.LINK#

【Related command】

NO

【Special notes】

NO