PATTON
let's Connect!™

Model 3124
ADSL2+ IPDSLAM

CLI Reference Guide

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Part Number: **07M3124-CLI, Rev. A**
Revised: **March 16, 2012**

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Summary Table of Contents

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About this guide

This user guide describes the commands and parameters of the Command Line Interface (CLI) as implemented in the current version of the Model 3124 system software. These commands are used to set-up, administer and maintain the system. For detailed hardware or set-up information, refer to the product's *User Manual*.

Audience

This guide is intended for the following users:

- Operators
- Installers
- Maintenance technicians

Structure

This guide contains the following chapters and appendices:

Chapter 1 Getting Started

Chapter contents

Overview

This *Model 3124 CLI Reference Guide* provides information about configuring the software for the 3124 ADSL2+ IPDSLAM through the Command Line Interface. For information about setting up the unit, refer to the *Model 3124 User Manual* available online at **www.patton.com/manuals/3124.pdf**. For information about configuring the 3124 through the Web Management Interface (WMI), refer to the *Model 3124 Administrator's Reference Guide* available online at **www.patton.com/manuals/3124-arg.pdf**.

Getting Started with the CLI

Access to the Operations System (OS) /Network Element (NE) system is protected by a log-on security system. You can log on to the NE with the user name and password. After three failed logon attempts, the system refuses further attempts.

After you log on, the system monitors the interface for periods of inactivity. If the interface is inactive for too long, you are automatically logged off.

All the NEs have the same initial user name (admin) and password (admin). You should change the password as soon as possible, because the initial password is known to anyone who reads this manual. You can also change the user name or add additional user names. Use the "account add" command to enter a new user identification, password and authorization level. The system can handle one local logon session and at least four remote/OS sessions.

Connect Interface

Table 1. Connect interface

Interface	Parameter
Console	Baud rate: 9600, Data bit:8, Parity: None, Stop bit :1
Telnet	Port 23
SSH	Port 22 (In Windows, you can run terminal emulator such as PuTTY)

Authorization Level

Table 2. Authorization Level

Level	Description
Super user	Superuser can run all commands.
Engineer	Engineer can run all commands except the commands for creating/modifying/deleting account
Guest (default)	Guest can run most commands except the commands that have creating/modifying/deleting purpose.

CLI Screen Description

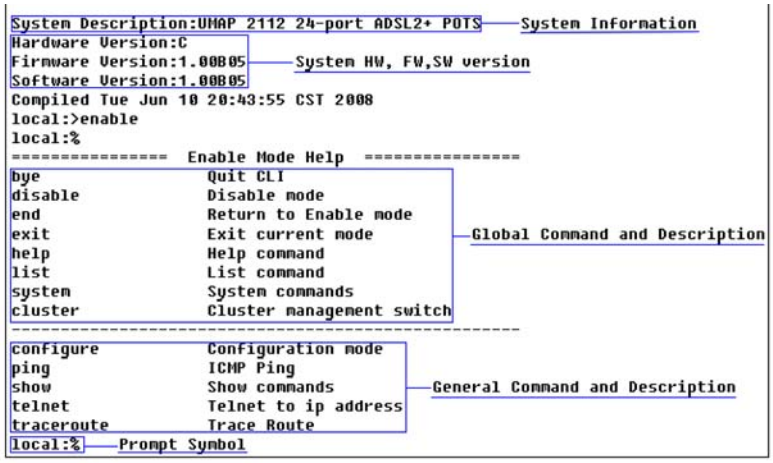

Figure 1. CLI Screen Description

Execution Modes

The CLI contains several execution modes. Users will see a different set of commands under different execution modes. Table 3 lists all the execution modes and their purposes. When users enter a certain execution mode, the corresponding mode prompt will be displayed automatically on the screen. The mode prompts of all the execution modes are also listed in Table 3.

Table 3. List of Execution Modes

Execute Mode	Description	Prompt Symbol
Initialize	Without login prompt or already authenticated	>
Enable	Management capable	%
Configure	Configuration capable	(conf)#
Interface	Interface configure capable	(intf-conf)#
Ethernet Interface	Ethernet Interface configure capable	(ethernet-intf-conf)#
ATM Bridge	ATM Bridge configuration capable	(bridge-atm-conf)#
ATM Description	ATM Description configuration capable	(atm-desc-conf)#
ADSL config	ADSL line configuration capable	(adsl-intf-conf)#
IPoA config	IPoA routed mode configuration capable	(ipoa-intf-conf)#
Bridge	Bridge configuration capable	(bridge-eth-conf)#
Access List	ACL configuration capable	(acl-conf)#
Service Profile	User/Line service profile configuration capable	(service-profile)#
Spectrum Profile	User/Line spectrum profile configuration capable	(spectrum-profile)#
Alarm Profile	User/Line alarm profile configuration capable	(alarm-profile)#
TCA Profile	User/Line TCA profile configuration capable	(tca-profile)#
IGMP ACL Profile	IGMP ACL profile configuration capable	(igmpacl-profile)#
Rate Limit Profile	Priority List configuration capable	(prio-conf)#
Priority List	Priority List configuration capable	(prio-conf)#

Getting Help in the CLI

The user can get help in two ways. The first way is by using the **help** command. The user can also enter a question mark "?" at each position in the command. The displayed result depends on the execution mode and previous input.

Terminal Key Functions

A list of all the terminal keys and their functions are shown in Table 4:

Table 4. List of Terminal Keys

Key	Function
TAB	Attempt to perform completion on the text before point
TAB TAB	Display the next keyword of this command
?	Display help of command
ENTER	Execute input
DEL or BACKSPACE	Delete the character to the left of the cursor
UP Arrow	History of last input line
DOWN Arrow	History of previous input line
CTRL-d	Delete the character at point. If point is at the beginning of the line,there are no characters in the line, and the last character typed was not bound to delete-char, then return EOF.
CTRL-a	Move to the start of the line
CTRL-e	Move to the end of the line
CTRL-f	Move Forward one character
CTRL-b	Move Back one character
CTRL-c	Force to interrupt
CTRL-k	Kill the text from the current cursor to the end
CTRL-p	Move 'back' through the history list, fetching the previouscommand.
CTRL-n	Move 'forward' through the history list, fetching the next command.
CTRL-r	Search backward starting at the current line and moving 'up' through the history as necessary. This is an incremental search.
CTRL-t	Drag the character before the cursor forward over the character at the cursor, moving the cursor forward as well. If the insertion point is at the end of the line, this transposes the last two characters of the line. Negative arguments have no effect.
CTRL-u	Kill backward from the cursor to the beginning of the current line.
CTRL-w	Kill the word behind point, using white space as a word boundary. The killed text is saved on the kill-ring.
CTRL-y	Yank the top of the kill ring into the buffer at point.
CTRL-s	Terminal will not response to what the operator key in
CTRL-q	Back to normal mode from terminal not responding mode
CTRL-z	Exit current execution mode

Notation Conventions

The notation conventions for the parameter syntax of each CLI command are:

- Parameters enclosed in [ ] are optional.
- Parameter values are separated by a vertical bar "|" only when one of the specified values can be used.
- Parameter values are enclosed in { } when you must use one of the values specified.

About String-type Parameters

Some commands have string type parameters. When you type in the values of these parameters, you must be careful not to use the keyword that is actually a part of some command. For example, 'account add default' will cause a syntax mistake, since **default** is the keyword of the command 'igmp default' and some other commands. Therefore, it is recommended to add " " when you have to use the command keyword as the parameter value. In this way, the keyword will be regarded as a common string. For example, account add "default".

Chapter 2 Global Commands

Chapter contents

Global Commands

The Global commands can be used in all execution modes.

bye

Description: Exit
Syntax: bye
Parameter: None

cluster

Description: Switch to a NE (network element) in the cluster
Syntax: cluster <string>
Parameter:

Name	Description
<string>	NE name in the cluster you want to switch to **Valid values:** string type value **Default value:** - **Type:** Mandatory

cluster local

Description: Switch to Master in the cluster
Syntax: cluster local
Parameter: None

disable

Description: Go to Disable execution mode from logoff mode
Syntax: disable
Parameter: None

end

Description: Return to Enable mode
Syntax: end
Parameter: None

exit

Description: Go to previous execution mode
Syntax: exit
Parameter: None

help

Description: Display help
Syntax: help
Parameter: None

list opmode

Description: List all the ADSL modes of operation.
Syntax: list opmode
Parameter: None

system contact

Description: Set system contact
Syntax: system contact <contact>
Parameter:

Name	Description
<contact>	System contact **Valid values:** string type value. Max 63 characters. **Default value:** - **Type:** Optional

system location

Description: Set system location
Syntax: system location <location>
Parameter:

Name	Description
<location>	System location **Valid values:** string type value. Max 63 characters. **Default value:** - **Type:** Optional

system name

Description: Set system name

Syntax: system name <name>

Parameter:

Name	Description
<name>	System name **Valid values:** string type value. Max 32 characters. **Default value:** - **Type:** Optional

system restart

Description: Restart the system

Syntax: system restart

Parameter: None

Chapter 3 Initialize Mode Commands

Chapter contents

Initialize Mode Commands

enable

Description: Go to Enable execution mode from disable mode
Syntax: enable
Parameter: None

show license

Description: Display GNU software license
Syntax: show license
Parameter: None

show time

Description: Display current time
Syntax: show time
Parameter: None

show uptime

Description: Display System up time and CPU loading
Syntax: show uptime
Parameter: None

show version

Description: Display CLI software version
Syntax: show version
Parameter: None

Chapter 4 Enable Mode Commands

Chapter contents

Enable Mode Commands

The commands in this section can be executed only in the Enable execution mode. Enable mode commands are executed with the % prompt symbol.

configure

Description: Go to Configure execution mode from Enable mode.
Syntax: configure
Parameter: None

ping

Description: ICMP echo and reply from hostname address or IP address. If there is no reply for a long time, press Ctrl + c to interrupt ping.

Syntax:
ping {ipv4 address}
ping {ipv4 address} count <count>
ping {ipv4 address} size <size>
ping {ipv4 address} count <count> size <size>

Parameter:

Name	Description
ipv4 address	IPv4 address **Valid values:** xxx.xxx.xxx.xxx (xxx: 0~255) **Default value:** -
count	The number of PING packets sent **Default value:** -
size	Packet size **Default value:** -

show access-list bcrate

Description: Display all broadcast rate limiting list
Syntax: show access-list bcrate
Parameter: None

show access-list dstip

Description: Display all dest IP deny access list or by index.

Syntax: show access-list dstip [<index>]

Parameter:

Name	Description
<index>	Destination IP deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show access-list dstmac

Description: Display all destination MAC address deny access list or by index

Syntax: show access-list dstmac [<index>]

Parameter:

Name	Description
<index>	Destination MAC deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show access-list ethertype

Description: Display all EtherType deny access list or by index

Syntax: show access-list ethertype [<index>]

Parameter:

Name	Description
<index>	EtherType deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show access-list ip-allowed

Description: Display all static IP allowed access list or by index

Syntax: show access-list ip-allowed [<index>]

Parameter:

Name	Description
<index>	Static IP allowed access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show access-list ipprotocol

Description: Display all IP protocol deny access list or by index

Syntax: show access-list ipprotocol [<index>]

Parameter:

Name	Description
<index>	IP Protocol deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show access-list l4dstport

Description: Display all L4 dest port deny access list or by index

Syntax: show access-list l4dstport [<index>]

Parameter:

Name	Description
<index>	L4 destination port deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show access-list mcfldrate

Description: Display all flooding rate limiting list or by VLAN ID
Syntax: show access-list mcfldrate [vlan <VLAN ID>]
Parameter:

Name	Description
VLAN ID	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

show access-list srcip

Description: Display all source IP deny access list or by index
Syntax: show access-list srcip [<index>]
Parameter:

Name	Description
<index>	Source IP deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show access-list srcmac

Description: Display all source mac address deny access list or by index
Syntax: show access-list srcmac [<index>]
Parameter:

Name	Description
<index>	Source MAC deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show account

Description: Display system account list / detail information
Syntax: show account [detail]
Parameter: None

show aging

Description: Display bridge aging time
Syntax: show aging
Parameter: None

show alarm current

Description: Display current alarm list
Syntax: show alarm current
Parameter: None

show alarm event

Description: Display event list
Syntax: show alarm event
Parameter: None

show alarm history

Description: Display alarm history list
Syntax: show alarm history
Parameter: None

show atmdesc

Description: Display ATM descriptor
Syntax: show atmdesc
Parameter: None

show atm-loopback

Description: Display ATM loopback status (by port)
Syntax: show atm-loopback [<port>]
Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Optional

show cli-config

Description: Display current setting for CLI configuration (timeout value, session value)
Syntax: show cli-config
Parameter: None

show cluster

Description: Display cluster configuration / cluster member list / cluster status
Syntax: show cluster {config | member | status}
Parameter: None

show cpu

Description: Display CPU information
Syntax: show cpu
Parameter: None

show dot1x

Description: Display 802.1x information
Syntax: show dot1x
Parameter: None

show dot1x profile

Description: Display 802.1x profile
Syntax: show dot1x profile
Parameter: None

show dot1x server

Description: Display 802.1x server configuration
Syntax: show dot1x server
Parameter: None

show dot1x server <index>

Description: Display 802.1x server configuration by index [1...3]

Syntax: show dot1x server <index>

Parameter:

Name	Description
<index>	Display 802.1x server configuration by index **Valid values:** 1 ~ 3 **Default value:** - **Type:** Mandatory

show dsl-line-identify

Description: Display DSL line identify information

Syntax: show dsl-line-identify

Parameter: None

show fdb

Description: Display all MAC learning table or by VLAN ID

Syntax: show fdb [vlan <VLAN ID>]

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

show fdbstatic

Description: Display all static MAC forwarding table or by index

Syntax: show fdbstatic [<index>]

Parameter:

Name	Description
<index>	Static MAC forwarding table number **Valid values:** 1 ~ 512 **Default value:** - **Type:** Optional

show firmware

Description: Display firmware update status or partition information

Note: The **Active** status of the firmware partition information means the active partition for next time restart, not current running partition.

Ex.:

```
local:%show firmware partition
Current Version:1.00B05
Partition  Version      Date          Status
-----------------------------------------
1          1.00B05t1    2008/7/4      --
2          1.00B05      2008/6/18     Active
```

Syntax: show firmware {status | partition}
Parameter: None

show help

Description: Display Help
Syntax: show help
Parameter: None

show http

Description: Display HTTP Web port
Syntax: show http
Parameter: None

show igmp

Description: Display IGMP information
Syntax: show igmp
Parameter: None

show igmp group

Description: Display IGMP VLAN group list

Syntax:
show igmp group list
show igmp group ip <ipv4 address> vlan <VLAN ID>
show igmp group ip <ipv4 address> vlan <VLAN ID> src list
show igmp group ip <ipv4 address> vlan <VLAN ID> src <ipv4 address>

Parameter:

Name	Description
ipv4 address	IGMP group address **Valid values:** 224.0.0.0 ~ 239.255.255.255 The range of addresses from 224.0.0.0 to 224.0.0.255 is reserved for the use of routing protocols and other low-level topology discovery or maintenance protocols. **Default value:** - **Type:** Mandatory
VLAN ID	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

show igmp rtport

Description: Display all IGMP router port list or by VLAN ID

Syntax: show igmp rtport [vlan <VLAN ID>]

Parameter:

Name	Description
VLAN ID	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

show igmp-acl bind gigabit

Description: Display all IGMP ACL bind status for gigabit interface

Syntax: show igmp-acl bind gigabit <port>

Parameter:

Name	Description
port	Gigabit Ethernet port number **Valid values:** 1 **Default value:** - **Type:** Optional

show igmp-acl bind xdsl

Description: Display all IGMP ACL bind status for xdsl bridge port

Syntax: show igmp-acl bind xdsl <port>

Parameter:

Name	Description
port	Port number **Valid values:** 1 -24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier fe ds snr

Description: Display carrier information of far-end snr downstream by Bridge port (the xdsl port must be in diagnostic mode and the test is completed)

Syntax: show interface xdsl {all | <port>} adsl carrier fe ds snr

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 - 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier fe ds qln

Description: Display carrier information of far-end qln downstream by Bridge port (the xdsl port must be in diagnostic mode and the test is completed)

Syntax: show interface xdsl {all | <port>} adsl carrier fe ds qln

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier fe ds hlin

Description: Display carrier information of far-end hlin downstream by Bridge port (the xdsl port must be in diagnostic mode and the test is completed)

Syntax: show interface xdsl {all | <port>} adsl carrier fe ds hlin

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier fe ds hlog

Description: Display carrier information of far-end hlog downstream by Bridge port (the xdsl port must be in diagnostic mode and the test is completed)

Syntax: show interface xdsl {all | <port>} adsl carrier fe ds hlog

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier fe us load

Description: Display carrier information of far-end load upstream by Bridge port

Syntax: show interface xdsl {all | <port>} adsl carrier fe us load

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier fe us gain

Description: Display carrier information of far-end gain upstream by Bridge port

Syntax: show interface xdsl {all | <port>} adsl carrier fe us gain

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier fe us tss

Description: Display carrier information of far-end tss upstream by Bridge port (the xdsl port must be in diagnostic mode and the test is completed)

Syntax: show interface xdsl {all | <port>} adsl carrier fe us tss

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier ne us snr

Description: Display carrier information of near-end snr upstream by Bridge port (the xdsl port must be in diagnostic mode and the test is completed)

Syntax: show interface xdsl {all | <port>} adsl carrier ne us snr

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier ne us qln

Description: Display carrier information of near-end qln upstream by Bridge port (the xdsl port must be in diagnostic mode and the test is completed)

Syntax: show interface xdsl {all | <port>} adsl carrier ne us qln

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier ne us hlin

Description: Display carrier information of near-end hlin upstream by Bridge port (the xdsl port must be in diagnostic mode and the test is completed)

Syntax: show interface xdsl {all | <port>} adsl carrier ne us hlin

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl carrier ne us hlog

Description: Display carrier information of near-end hlog upstream by Bridge port (the xdsl port must be in diagnostic mode and the test is completed)

Syntax: show interface xdsl {all | <port>} adsl carrier ne us hlog

Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} adsl carrier ne ds load

Description: Display carrier information of near-end load downstream by Bridge port

Syntax: show interface xdsl {all | <port>} adsl carrier ne ds load

Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} adsl carrier ne ds gain

Description: Display carrier information of near-end gain downstream by Bridge port

Syntax: show interface xdsl {all | <port>} adsl carrier ne ds gain

Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} adsl carrier ne ds tss

Description: Display carrier information of near-end tss downstream by Bridge port (the xdsl port must be in diagnostic mode and the test is completed)

Syntax: show interface xdsl {all | <port>} adsl carrier ne ds tss

Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} adsl channel

Description: Display xDSL line channel information by Bridge port

Syntax: show interface xdsl {all | <port>} adsl channel

Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} adsl failure

Description: Display xDSL failure by Bridge port

Syntax: show interface xdsl {all | <port>} adsl failure

Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} adsl line

Description: Display xDSL line status by Bridge port

Syntax: show interface xdsl {all | <port>} adsl line

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl line config

Description: Display xDSL line configuration information by Bridge port

Syntax: show interface xdsl {all | <port>} adsl line config

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl line delt-test

Description: Display xDSL line DELT test information by Bridge port

Syntax: show interface xdsl {all | <port>} adsl line delt-test

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

show interface xdsl {all | <port>} adsl line information

Description: Display xDSL line information by Bridge port

Syntax: show interface xdsl {all | <port>} adsl line information

Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} adsl inventory

Description: Display xDSL inventory by Bridge port

Syntax: show interface xdsl {all | <port>} adsl inventory

Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} adsl operational

Description: Display xDSL far-end/near-end operational information by Bridge port

Syntax: show interface xdsl {all | <port>} adsl operational {fe | ne}

Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} bridge

Description: Display Bridge information by Bridge port
Syntax: show interface xdsl {all | <port>} bridge
Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} cellcount

Description: Display ATM cell counter by Bridge port
Syntax: show interface xdsl {all | <port>} cellcount
Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} counter

Description: Display Ethernet packet counter by Bridge port
Syntax: show interface xdsl {all | <port>} counter
Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} ipoa

Description: Display IPoA (RFC 2684) information by Bridge port
Syntax: show interface xdsl {all | <port>} ipoa
Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} vc

Description: Display VC information by Bridge port
Syntax: show interface xdsl {all | <port>} vc
Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface xdsl {all | <port>} vlan

Description: Display VLAN information by Bridge port
Syntax: show interface xdsl {all | <port>} vlan
Parameter:

Name	Description
<port>	Port number
	Valid values: 1 ~ 24 (48)
	Default value: -
	Type: Mandatory

show interface bridge

Description: Display All interface Bridge information
Syntax: show interface bridge
Parameter: None

show interface counter

Description: Display All interface Ethernet packet counter
Syntax: show interface counter
Parameter: None

show interface gigabit [<port>] bridge

Description: Display Bridge information of all Gigabit Ethernet interfaces or by Gigabit Ethernet port
Syntax: interface gigabit [<port>] bridge
Parameter:

Name	Description
port	Gigabit Ethernet port number **Valid values:** 1 **Default value:** - **Type:** Optional

show interface gigabit [<port>] counter

Description: Display Gigabit Ethernet counter of all Gigabit Ethernet interfaces or by Gigabit Ethernet port
Syntax: show interface gigabit [<port>] counter
Parameter:

Name	Description
port	Gigabit Ethernet port number **Valid values:** 1 **Default value:** - **Type:** Optional

show interface gigabit [<port>] vlan

Description: Display VLAN information of all Gigabit Ethernet interface or by Gigabit Ethernet port
Syntax: show interface gigabit [<port>] vlan
Parameter:

Name	Description
port	Gigabit Ethernet port number **Valid values:** 1 **Default value:** - **Type:** Optional

show mac-spoofing-detect config

Description: Display MAC Spoofing Detect configuration
Syntax: show mac-spoofing-detect config
Parameter: None

show mac-spoofing-detect log

Description: Display MAC Spoofing Detect log
Syntax: show mac-spoofing-detect log
Parameter: None

show management all

Description: Display all system management port ip setting
Syntax: show management all
Parameter: None

show management gbe

Description: Display GBE management port ip setting
Syntax: show management gbe
Parameter: None

show pm <port> adsl day

Description: Display performance monitoring data for previous 1 day or current day

Syntax: show pm <port> adsl day {<number> | current}

Parameter:

Name	Description
port	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory
number	Day number **Valid values:** 1 ~ 1 **Default value:** - **Type:** Mandatory

show pm <port> adsl interval

Description: Display performance monitoring data for previous 1~96 intervals or current interval

Syntax: show pm <port> adsl interval {<number> | current}

Parameter:

Name	Description
port	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory
number	Day number **Valid values:** 1 ~ 96 **Default value:** - **Type:** Mandatory

show port-template parameter

Description: Display parameter mask. That is, display which profiles (or function) of the template port are selected to be duplicated to other ports. Mask means selected; Unmask means not-selected

Syntax: show port-template parameter

Parameter: None

show priority-list ds

Description: Display differentiated services priority list

Syntax: show priority-list ds [<number>]

Parameter:

Name	Description
number	Differentiate services priority list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show priority-list dstip

Description: Display destination IP address priority list

Syntax: show priority-list dstip [<number>]

Parameter:

Name	Description
number	Destination IP address priority list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show priority-list dstmac

Description: Display destination MAC address priority list

Syntax: show priority-list dstmac [<number>]

Parameter:

Name	Description
number	Destination MAC address priority list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show priority-list ethertype

Description: Display specific Ether Type VLAN priority list

Syntax: show priority-list ethertype [<number>]

Parameter:

Name	Description
number	Ether Type priority list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show priority-list ipprotocol

Description: Display IP Protocol VLAN priority list

Syntax: show priority-list ipprotocol [<number>]

Parameter:

Name	Description
number	IP Protocol VLAN priority list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show priority-list srcip

Description: Display source IP address priority list

Syntax: show priority-list srcip [<number>]

Parameter:

Name	Description
number	Source IP address priority list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show priority-list srcmac

Description: Display source MAC address priority list

Syntax: show priority-list srcmac [<number>]

Parameter:

Name	Description
number	Source MAC address priority list number. **Valid values:** 1 ~ 256 **Default value:** - **Type:** Optional

show priority-list tos

Description: Display ToS (IP Precedence) priority list

Syntax: show priority-list tos [<number>]

Parameter:

Name	Description
number	ToS (IP Precedence) priority list number. **Valid values:** 1 ~ 256 **Default value:** - **Type:** Mandatory

show priority-list vlanid

Description: Display VLAN ID priority list

Syntax: show priority-list vlanid [<number>]

Parameter:

Name	Description
number	VLAN ID priority list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Mandatory

show priority-queue config

Description: Display Priority and Queue mapping configuration

Syntax: show priority-queue config

Parameter: None

show priority-regen

Description: Display VLAN priority tag filter
Syntax: show priority-regen
Parameter: None

show profile alarm all

Description: Display alarm profile
Syntax: sshow profile alarm all
Parameter: None

show profile igmp-acl

Description: Display IGMP ACL profile
Syntax: show profile igmp-acl <number>
Parameter:

Name	Description
<number>	Profile index **Valid values:** 1 ~ 15 **Default value:** - **Type:** Mandatory

show profile rate-limit policer

Description: Display rate limit policer information
Syntax: sshow profile rate-limit policer
Parameter: None

show profile service adsl

Description: Display ADSL service profile

Syntax: show profile service adsl {<number> | all}

Parameter:

Name	Description
<number>	Profile index **Valid values:** 1 ~ 120 **Default value:** - **Type:** Optional

show profile spectrum adsl

Description: Display ADSL service profile

Syntax: show profile service adsl {<number> | all}

Parameter:

Name	Description
<number>	Profile index **Valid values:** 1 ~ 120 **Default value:** - **Type:** Optional

show profile tca adsl

Description: Display threshold crossing alert profile or all profiles

Syntax: show profile tca adsl {<index> | all}

Parameter:

Name	Description
<index>	Port number **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory

show rmon alarm

Description: Display RMON alarm information

Syntax: show rmon alarm {all | <number>}

Parameter:

Name	Description
number	RMON alarm entry index **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory

show rmon ether_history

Description: Display RMON Ether history information

Syntax: show rmon ether_history <number>

Parameter:

Name	Description
number	RMON index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory

show rmon event

Description: Display RMON event information

Syntax: show rmon event {all | <number>}

Parameter:

Name	Description
number	RMON event entry index **Valid values:** 1 ~ 128 **Default value:** - **Type:** Mandatory

show rmon history

Description: Display RMON history control information
Syntax: show rmon history {all | <number>}
Parameter:

Name	Description
number	RMON history control entry index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory

show rmon log

Description: Display RMON log
Syntax: show rmon log
Parameter: None

show rmon statistic

Description: Display RMON statistic information
Syntax: show rmon statistic {all | <number>}
Parameter:

Name	Description
number	RMON statistic entry index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory

show route

Description: Display GBE routing table and default gateway
Syntax: show route
Parameter: None

show runningcfg

Description: Display running config
Syntax: show runningcfg
Parameter: None

show runningcfg interface gigabit

Description: Display running config by Gigabit Ethernet interface
Syntax: show runningcfg interface gigabit <port>
Parameter:

Name	Description
port	Gigabit port number **Valid values:** 1 **Default value:** - **Type:** Mandatory

show runningcfg interface xdsl

Description: Display running config by xDSL interface
Syntax: show runningcfg interface xdsl <port>
Parameter:

Name	Description
port	xDSL port number **Valid values:** 1~24 (48) **Default value:** - **Type:** Mandatory

show snmp

Description: Display SNMP community/notify/target setting
Syntax: show snmp {community | notify | target}
Parameter: None

show sntp

Description: Display SNTP setting
Syntax: show sntp
Parameter: None

show syslog server

Description: Display IP address of the syslog server
Syntax: show syslog server
Parameter: None

show system

Description: Display system information, system inventory, or system name
Syntax: show system {information | inventory | name}
Parameter: None

show tcm config

Description: Display TCM (Three-Color-Marking) Policer configuration
Syntax: show tcm config
Parameter: None

show tcm-policer

Description: Display TCM Policer Binding Table
Syntax: show tcm-policer
Parameter: None

show temperature

Description: Display system temperature
Syntax: show temperature
Parameter: None

show time

Description: Display current time
Syntax: show time
Parameter: None

show uptime

Description: Display System up time and CPU loading
Syntax: show uptime
Parameter: None

show version

Description: Display CLI software version
Syntax: show version
Parameter: None

show version detail

Description: Display CLI software version and system information
Syntax: show version detail
Parameter: None

show vlan

Description: Display bridge port member set
Syntax: show vlan [<VLAN ID>]
Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Optional

show vlan ethertype

Description: Show VLAN S-Tag Ether type
Syntax: show vlan ether type
Parameter: None

show vlan protocol-base

Description: Display protocol based VLAN table
Syntax: show vlan ether type
Parameter: None

show vlan-translation one-to-one

Description: Display one-to-one VLAn translation table
Syntax: show vlan-translation one-to-one
Parameter: None

show vlan-translation many-to-one

Description: Display many-to-one VLAN translation table
Syntax: show vlan-translation many-to-one
Parameter: None

telnet

Description: Telnet to a destination (If you're not connecting to the DSLAM through its console port, this command is not provided.)
Syntax: telnet <target address>
Parameter:

Name	Description
target address	IPV4 address or hostname **Valid values:** xxx.xxx.xxx.xxx (xxx: 0~255) **Default value:** - **Type:** Mandatory

traceroute

Description: Trace route (and not use ICMP ECHO instead of UDP datagrams)
Syntax: traceroute <target address> [no_icmp]
Parameter:

Name	Description
target address	IPV4 address **Valid values:** xxx.xxx.xxx.xxx (xxx: 0~255) **Default value:** - **Type:** Mandatory

Chapter 5 Configure Mode Commands

Chapter contents

Configure Mode Commands

The commands in this section can be executed only in the Configure execution mode. Configure mode commands are executed with the (**conf**)# prompt.

access-list

Description: Go to access-list execution mode from Configure mode.
Syntax: access-list
Parameter: None

account add

Description: Add new account.
Syntax: account add <name>
account add <name> password <password> comment <comment>
account add <name> password <password> level <level> [comment <comment>]
account add <name> password <password> password-expiration <day number>

Parameter:

Name	Description
<name>	ID name (max 31 characters). Only 0-9, a-z, A-Z, and symbol "_-." are accepted for account name. For example, abc_12_XYZ-10.1 is a valid user name. Note that the 3124 does not accept user names beginning with a digital number. For example, 123abc or 123456 are not a valid name. **Default value:** - **Type:** Mandatory
<password>	Input password (max 31 characters) **Default value:** space char **Type:** Optional
<level>	Set access level **Valid values:** superuser, engineer, guest **Default value:** guest **Type:** Optional
<comment>	Set comment (max 31 characters) **Default value:** space char **Type:** Optional
<day number>	Set password expiration days (0:disable) **Default value:** - **Type:** Optional

account delete

Description: Delete account

Syntax: account delete <name>

Parameter:

Name	Description
<name>	ID name (max 31 characters). **Default value:** - **Type:** Mandatory

account modify

Description: Modify account.

Syntax:
account modify <name> comment <comment>
account modify <name> password <password> [{ level <level> [comment <comment>] | comment <comment> | password-expiration <day number> }]
account modify <name> level <level> [comment <comment>
account modify <name> password-expiration <day number>

Parameter:

Name	Description
<name>	ID name (max 31 characters). **Default value:** - **Type:** Mandatory
<password>	Input password (max 31 characters) **Default value:** space char **Type:** Optional
<level>	Set access level **Valid values:** superuser, engineer, guest **Default value:** guest **Type:** Optional
<comment>	Set comment (max 31 characters) **Default value:** space char **Type:** Optional
day number	Set password expiration days (0:disable) **Default value:** - **Type:** Optional

aging

Description: Bridge aging time
Syntax: aging <number>
Parameter:

Name	Description
number	Aging time (sec) **Valid values**: (10-1000000) sec. **Default value:** 300 **Type:** Mandatory

alarm event clear

Description: Clear alarm event log
Syntax: alarm event clear
Parameter: None

alarm history clear

Description: Clear alarm history
Syntax: alarm history clear
Parameter: None

atmdesc

Description: Go to ATM-description execution mode from Configure mode
Syntax: atmdesc
Parameter: None

atm-loopback

Description: ATM loopback testing OAM Cell generation enable / OAM Cell Generation disable / Set ATM loopback type or clear loopback status for a PVC

Syntax: atm-loopback enable
atm-loopback disable
atm-loopback <port>/<pvc> {type <type> | clear}

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
<type>	ATM loopback type **Valid values:** f5-e2e, f5-segment **Default value:** - **Type:** Mandatory

cli-config session

Description: Set CLI max number of connection sessions

Syntax: cli-config session <number>

Parameter:

Name	Description
<number>	Set CLI max number of connection sessions **Valid values:** 1 ~ 10 **Default value:** 5 **Type:** Mandatory

cli-config timeout

Description: Set CLI configuration timeout value

Syntax: cli-config timeout <number>

Parameter:

Name	Description
<number>	Set CLI connection timeout value **Valid values**: 180 ~ 3600 (sec) **Default value:** 300 (sec) **Type:** Mandatory

cluster-cfg domain

Description: Set cluster domain name

Syntax: cluster-cfg domain <string>

Parameter:

Name	Description
<string>	Cluster domain name **Valid values**: Max length 31 **Default value:** - **Type:** Mandatory

cluster-cfg management

Description: Set cluster management IP configuration

Syntax: cluster-cfg management {ip <ipv4 address> | netmask <netmask> | gateway <ipv4 address>}

Parameter:

Name	Description
<ipv4 address>	IP address **Valid values**: xxx.xxx.xxx.xxx (xxx: 0~255) **Default value:** 0.0.0.0 **Type:** Mandatory
<netmask>	Netmask of the management port **Valid values**: xxx.xxx.xxx.xxx (xxx: 0~255) **Default value:** 0.0.0.0 **Type:** Optional

cluster-cfg name

Description: Set the NE name in a cluster
Syntax: cluster-cfg name <string>
Parameter:

Name	Description
<string>	A name for NE Identification **Valid values**: Max length 31 **Default value:** - **Type:** Mandatory

cluster-cfg role

Description: Set cluster role to System-decide, Slave only or Not in a cluster (default)
Syntax: cluster-cfg role {cluster | slave-only | individual}
Parameter: None

cluster-cfg voting-key

Description: Set cluster voting-key for the priority to be a Master
Syntax: cluster-cfg voting key <number>
Parameter:

Name	Description
<number>	Cluster voting key **Valid values**: 0~4294967295 **Default value:** 0 **Type:** Mandatory

dot1x

Description: Go to 802.1x configuration mode
Syntax: dot1x
Parameter: None

dot1x disable

Description: Disable 802.1x authentication function of the system
Syntax: dot1x disable
Parameter: None

dot1x enable

Description: Enable 802.1x authentication function of the system
Syntax: dot1x enable
Parameter: None

dsl-line-identify dhcp

Description: Set DHCP Relay Option82 enable/disable
Syntax: dsl-line-identify dhcp {enable | disable}
Parameter: None

dsl-line-identify dhcp option82 circuit

Description: Set DHCP Option82 Circuit ID type (default type is <DSLAM name>:<circuit number>:<vpi>:<vci> / or customer-defined type)
Syntax: dsl-line-identify dhcp option82 circuit {default | customer}
Parameter: None

dsl-line-identify dhcp option82 dslam-name

Description: Set DSLAM name
Syntax: dsl-line-identify dhcp option82 dslam-name <string>
Parameter:

Name	Description
<string>	Set DSLAM name (max length 15) **Default value:** - **Type:** Mandatory

dsl-line-identify dhcp option82 dslam-name-cluster

Description: Set DSLAM name by Cluster name
Syntax: dsl-line-identify dhcp option82 dslam-name-cluster
Parameter: None

dsl-line-identify dhcp option82 dslam-name-customer

Description: Set DSLAM name by customer-defined
Syntax: dsl-line-identify dhcp option82 dslam-name-customer
Parameter: None

dsl-line-identify dhcp option82 sub

Description: Set DHCP Option82 sub mode (send Circuit ID/send Remote ID/send Both)
Syntax: dsl-line-identify dhcp option82 sub {circuit | remote | both}
Parameter: None

dsl-line-identify dhcp option82 remote

Description: Set Remote ID type as Default / Line ID / Line Description / Line phone number / Customer (default type is <DSLAM nae>:<bridge port index>; customer type means the customer-defined type
Syntax: dsl-line-identify dhcp option82 remote {default | line-id | line-descr | line-phone | customer}
Parameter: None

dsl-line-identify pppoe srv-name

Description: Set Service Name
Syntax: dsl-line-identify pppoe srv-name <string>
Parameter:

Name	Description
<string>	Set Service name **Default value:** - **Type:** Mandatory

dsl-line-identify pppoe srv-name-check

Description: Disable/Enable PPPoE Service Name check
Syntax: dsl-line-identify pppoe srv-name-check {disable | enable}
Parameter: None

fdbstatic <number> {xdsl | gigabit}

Description: Static MAC forwarding table setting

Syntax: fdbstatic <number> xdsl <port>/<pvc> vlan <VLAN ID> mac <mac address> {deny | pass}
fdbstatic <number> gigabit <port> vlan <VLAN ID> mac <mac address> {deny | pass}

Parameter:

Name	Description
<number>	Static MAC forwarding table number **Valid values:** 1 ~ 512 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values:** 1 ~ 24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory
<mac address>	MAC address **Valid values:** xx:xx:xx:xx:xx:xx (xx:00~ff) **Default value:** - **Type:** Mandatory

fdbstatic <number> disable

Description: Disable specify static MAC forwarding entry

Syntax: fdbstatic <number> disable

Parameter:

Name	Description
<number>	Static MAC forwarding table number **Valid values:** 1 ~ 512 **Default value:** - **Type:** Mandatory

fdbstatic list

Description: Show static MAC forwarding table or specified static MAC forwarding entry

Syntax: fdbstatic [<number>] list

Parameter:

Name	Description
<number>	Static MAC forwarding table number **Valid values:** 1 ~ 512 **Default value:** - **Type:** Optional

firmware bootcode-upgrade

Description: Get bootcode from FTP server and write to Flash ROM

Syntax: firmware bootcode-upgrade <filename>

Parameter:

Name	Description
<filename>	Boot code path and file name (max 31 characters) **Default value:** - **Type:** Mandatory

firmware login

Description: Login FTP server that firmware image belongs to

Syntax: firmware login <ipv4 address> username <name> password <password>

Parameter:

Name	Description
<ipv4address>	IPV4 address **Valid values:** xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** - **Type:** Mandatory
<name>	User name (max 31 characters) **Default value:** - **Type:** Mandatory
<password>	Input password (max 31 characters) **Default value:** - **Type:** Mandatory

firmware partition

Description: Set booting partition

Syntax: firmware partition <number>

Parameter:

Name	Description
<number>	Partition number **Valid values:** 1 ~ 2 **Default value:** - **Type:** Mandatory

firmware upgrade

Description: Get firmware image from FTP server and write to Flash ROM

Syntax: firmware upgrade <filename>

Parameter:

Name	Description
<filename>	Path and File name (max 31 characters) **Default value:** - **Type:** Mandatory

http port

Description: Set http server listening port
Syntax: http port <port number>
Parameter:

Name	Description
port number	The port number **Valid values:** Integer range 0-65535 **Default value:** 80 **Type:** Mandatory

igmp acl

Description: IGMP ACL control mode
Syntax: igmp acl {enable | disable}
Parameter: None

igmp default

Description: IGMP set default
Syntax: igmp [default]
Parameter: None

igmp deny no-router alert

Description: Enable or disable the function that the system will deny IGMP packets that have no router alert option in their IP header. Default is “disable”; the system doesn’t care router alert option.
Syntax: igmp deny no-router-alert {enable | disable}
Parameter: None

igmp disable

Description: Disable snooping mode and proxy mode
Syntax: igmp disable
Parameter: None

igmp max-group-limit

Description: Enable or disable the function that maximum active counter of IGMP groups
Syntax: igmp max-group-limit {enable | disable}
Parameter: None

igmp proxy

Description: Enable IGMP proxy snooping mode
Syntax: igmp proxy
Parameter: None

igmp snooping

Description: Enable IGMP normal snooping mode enable
Syntax: igmp snooping
Parameter: None

igmp rtport gigabit

Description: Set IGMP router port (giga1) and set IGMP router IP address
Syntax: igmp rtport gigabit <port> vlan <VLAN ID> [disable | ip <ipv4 address>]
Parameter:

Name	Description
port	Port number **Valid values:** 1 **Default value:** - **Type:** Mandatory
VLAN ID	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory
ipv4 address	Set router IP address for proxy mode IGMP general query packet reference **Valid values:** xxx.xxx.xxx.xxx (xxx: 0~255) **Default value:** 0.0.0.0 **Type:** Optional

igmp rtport list

Description: Show IGMP router port list

Syntax: igmp rtport list [<VLAN ID>]

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

igmp timeout

Description: IGMP timeout setting (BC/LMQT/MRT/Query/URI)

Syntax: igmp timeout {bc | lmqt | mrt | query | uri} <number>

Parameter:

Name	Description
<number>	Timeout value **Valid values:** 1 ~ 500 (second) **Default value:** BC: 400 LMQT: 1 MRT: 10 Query: 125 URI: 1 **Type:** Mandatory

igmp version

Description: Set IGMP protocol version

Syntax: igmp version {v1 | v2 | v3}

Parameter: None

interface gigabit

Description: Go to Gigabit Ethernet Interface execution mode from Configure mode

Syntax: interface gigabit <port>

Parameter:

Name	Description
<port>	Gigabit Ethernet port number **Valid values:** 1 **Default value:** - **Type:** Mandatory

interface xdsl

Description: Go to xDSL Interface execution mode from Configure mode

Syntax: interface xdsl <port>

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** **Type:** Mandatory

mac-spoofing-detect

Description: Enable/Disable MAC spoofing detection

Syntax: mac-spoofing-detect {enable | disable}

Parameter: None

management gbe

Description: Set GBE port IP address

Syntax: management gbe <ipv4 address>

Parameter:

Name	Description
ipv4address	IP address **Valid values:** xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** 0.0.0.0 **Type:** Mandatory

management gbe vlan

Description: Set incoming VLAN tag management (only allowing incoming packets with the specified VLAn ID or no limit of VLAN ID)

Syntax: management gbe vlan <VLAN ID> {no-limit | <VLAN ID>}

Parameter:

Name	Description
VLAN ID	VLAN ID **Valid values:** 1~4094 **Default value:** - **Type:** Mandatory

management gbe vlan priority

Description: Set priority level of the inband management traffic sent out from the GBE port

Syntax: management gbe vlan priority <prio ID>

Parameter:

Name	Description
prio ID	Priority ID **Valid values:** 0~7 **Default value:** 0 **Type:** Mandatory

pm clear

Description: Clear current performance monitoring data.

Syntax: pm clear <port>

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

port-template mask

Description: Mask the function (profile) of template line port.
Mask means to select this item to be copied to other ports.

Syntax: port-template mask {xdsl-lineconf | xdsl-profile | xdsl-admstatus | dsl-dentify-trust | pvc-vlan-bridge | igmp-acl | filter | priority-remark | priority-regen | ethernet-policer}

Parameter: None

port-template unmask

Description: Unmask the function (profile) of template line port.
Un-Mask means to de-select this item to be copied to other ports.

Syntax: port-template mask {xdsl-lineconf | xdsl-profile | xdsl-admstatus | dsl-dentify-trust | pvc-vlan-bridge | igmp-acl | filter | priority-remark | priority-regen | ethernet-policer}

Parameter: None

port-template template-port

Description: Select the template line port and pasted line port (copy configuration from template port)

Syntax: port-template template-port <port> paste-port <port>

Parameter:

Name	Description
<port>	xDSL port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

priority-list

Description: Go to Priority-list execution mode from Configure mode.

Syntax: priority-list

Parameter: None

priority-queue atm priority

Description: Set ATM interface priority queue mapping

Syntax: priority-queue atm priority <prio ID> queue <number>

Parameter:

Name	Description
<prio ID>	Priority ID **Valid values:** 0~7 **Default value:** 0 **Type:** Mandatory
<number>	Priority queue value **Valid values:** 0~7 **Default value:** - **Type:** Mandatory

priority-queue atm queue0-weight

Description: Set weight value of ATM Priority Queue 0

Syntax: priority-queue atm queue0-weight <number>

Parameter:

Name	Description
<number>	Weight value of ATM Priority Queue 0 **Valid values:** 1~255 **Default value:** 10 **Type:** Mandatory

priority-queue atm queue1-weight

Description: Set weight value of ATM Priority Queue 1

Syntax: priority-queue atm queue1-weight <number>

Parameter:

Name	Description
<number>	Weight value of ATM Priority Queue 1 **Valid values:** 1~255 **Default value:** 20 **Type:** Mandatory

priority-queue atm queue2-weight

Description: Set weight value of ATM Priority Queue 2

Syntax: priority-queue atm queue2-weight <number>

Parameter:

Name	Description
<number>	Weight value of ATM Priority Queue 2 **Valid values:** 1~255 **Default value:** 30 **Type:** Mandatory

priority-queue atm queue3-weight

Description: Set weight value of ATM Priority Queue 3

Syntax: priority-queue atm queue3-weight <number>

Parameter:

Name	Description
<number>	Weight value of ATM Priority Queue 3 **Valid values:** 1~255 **Default value:** 40 **Type:** Mandatory

priority-queue atm scheduling

Description: Set priority queue scheduling only support SPQ mode or support SQP and WFQ modes

Syntax: priority-queue atm scheduling {sqp | spq-wfq}

Parameter: None

priority-queue gigabit priority

Description: Set gigabit interface priority queue mapping

Syntax: priority-queue atm priority <prio ID> queue <number>

Parameter:

Name	Description
<prio ID>	Priority ID **Valid values:** 0~7 **Default value:** 0 **Type:** Mandatory
<number>	Priority queue value **Valid values:** 0~3 **Default value:** - **Type:** Mandatory

profile alarm

Description: Enter this command to go to alarm profile configuration mode.

Syntax: profile alarm

Parameter: None

profile igmp-acl

Description: Enter this command to go to IGMP ACL profile configuration mode

Syntax: profile igmp-acl <profile index>

Parameter:

Name	Description
<profile index>	Profile index **Valid values:**1 ~ 15 **Default value:** - **Type:** Mandatory

profile service adsl

Description: Enter this command to go to service profile configuration mode

Syntax: profile service adsl <profile index>[disable]

Parameter:

Name	Description
<profile index>	Profile index **Valid values:** 2 ~ 120 **Default value:** - **Type:** Mandatory

profile spectrum

Description: Enter this command to go to service profile configuration mode or delete a spectrum profile

Syntax: profile spectrum {adsl2 | adsl2plus | readsl2} <profile index> [disable]

Parameter:

Name	Description
<profile index>	Profile index **Valid values:** 2 ~ 120 **Default value:** - **Type:** Mandatory

profile tca xdsl

Description: Enter this command to go to TCA profile configuration mode or delete the specified TCA profile

Syntax: profile tca xdsl <index> [disable]

Parameter:

Name	Description
<index>	TCA profile index **Valid values:** 2~64 **Default value:** - **Type:** Mandatory

profile rate-limit

Description: Enter this command to go to rate-limit profile configuration mode.

Syntax: profile tca xdsl <index> [disable]

Parameter: None

remotecfg login

Description: Login FTP server to get remote configuration and load it to running configuration or write remote configuration to memory

Syntax: remotecfg login <ipv4 address> get <filename> {load | write partition <number>}

Parameter:

Name	Description
<ipv4 address>	IP address of TFTP server **Valid values:** xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** - **Type:** Mandatory
<filename>	Remote path and file name (max 31 character) **Default value:** - **Type:** Mandatory
<number>	Partition number **Valid values:** 1 ~ 2 **Default value:** - **Type:** Mandatory

restore-factory

Description: Restore factory setting (Must restart system after executing the restore-factory command in order for the setting to take effect.)

Syntax: restore-factory

Parameter: None

rmon alarm <index> alarm_interval

Description: Set RMON alarm interval

Syntax: rmon alarm <index> alarm_interval <number>

Parameter:

Name	Description
<index>	RMON alarm entry index **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory
<number>	Alarm interval **Valid values: 0~2147483647 (0: disable)** **Default value:** - **Type:** Mandatory

rmon alarm <index> delete

Description: Delete RMON alarm entry

Syntax: rmon alarm <index> delete <number>

Parameter:

Name	Description
<index>	RMON alarm entry index **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory

rmon alarm <index> falling_eventindex

Description: Set RMON alarm falling event index

Syntax: rmon alarm <index> falling_eventindex <number>

Parameter:

Name	Description
<index>	RMON alarm entry index **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory
<number>	RMON alarm falling event index **Valid values:** 1 ~ 128 **Default value:** - **Type:** Mandatory

rmon alarm <index> falling_threshold

Description: Set RMON alarm falling threshold

Syntax: rmon alarm <index> falling_threshold <number>

Parameter:

Name	Description
<index>	RMON alarm entry index **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory
<number>	RMON alarm falling threshold **Valid values: 0 ~ 4294967295** **Default value:** - **Type:** Mandatory

rmon alarm <index> owner

Description: RMON alarm owner

Syntax: rmon alarm <index> owner <string>

Parameter:

Name	Description
<string>	Owner name **Valid values:** (max 31 characters) **Default value:** - **Type:** Mandatory

rmon alarm <index> rising_eventindex

Description: Set RMON alarm rising event index

Syntax: rmon alarm <index> rising_eventindex <number>

Parameter:

Name	Description
<index>	RMON alarm entry index **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory
<number>	RMON alarm rising event index **Valid values:** 1 ~ 128 **Default value:** - **Type:** Mandatory

rmon alarm <index> rising_threshold

Description: Set RMON alarm rising threshold

Syntax: rmon alarm <index> rising_threshold <number>

Parameter:

Name	Description
<index>	RMON alarm entry index **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory
<number>	RMON alarm rising threshold **Valid values:** 0 ~ 4294967295 **Default value:** - **Type:** Mandatory

rmon alarm <index> sample_type

Description: RMON alarm sample type (Compared directly with the thresholds or Difference compared with the thresholds)

Syntax: rmon alarm <index> sample_type {absolute | delta}

Parameter:

Name	Description
<index>	RMON alarm entry index **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory

rmon alarm <index> startup_alarm

Description: RMON startup alarm (Rising threshold alarm, Falling threshold alarm or Both rising and falling threshold alarm)

Syntax: rmon alarm <index> startup_alarm {rising | falling | both}

Parameter:

Name	Description
<index>	RMON alarm entry index **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory

rmon alarm <index> variable

Description: Source sample in statistic table

Variable	Description
rx_broadcast	Monitoring rx broadcast packets
rx_bytes	Monitoring rx bytes packets
rx_dropped	Monitoring rx dropped packets
rx_err_aligment	Monitoring rx error aligment packets
rx_fragments	Monitoring rx fragments packets
rx_jabber	Monitoring rx jabber packets
rx_multicast	Monitoring rx multicast packets
rx_oversize	Monitoring rx oversize packets
rx_packets	Monitoring rx packets
rx_undersize	Monitoring rx undersize packets
tx_single_collision	Monitoring tx single collision packets
txrx_frames_64	Monitoring tx 64 octets
txrx_frames_127	Monitoring tx 65 to 127 octets
txrx_frames_255	Monitoring tx 128 to 255 octets
txrx_frames_511	Monitoring tx 256 to 511 octets
txrx_frames_1023	Monitoring tx 512 to 1023 octets
txrx_frames_1518	Monitoring tx 1024 to 1518 octets

Syntax:

rmon alarm <index> variable {rx_broadcast | rx_bytes | rx_dropped | rx_err_aligment | rx_fragments | rx_jabber | rx_multicast | rx_oversize rx_packets | rx_undersize} index <number>
rmon alarm <index> variable {tx_single_collision | txrx_frames_64 | txrx_frames_127 | txrx_frames_255 | txrx_frames_511 | txrx_frames_1023 | txrx_frames_1518} index <number>

Parameter:

Name	Description
<index>	RMON alarm entry index **Valid values:** 1 ~ 64 **Default value:** - **Type:** Mandatory
<number>	Source index in statistic table **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory

rmon event <index> community

Description: Set RMON event community

Syntax: rmon event <index> community <string>

Parameter:

Name	Description
<index>	RMON event entry index **Valid values:** 1 ~ 128 **Default value:** - **Type:** Mandatory
<string>	RMON event community **Valid values:** string type value. (max 31 characters) **Default value:** - **Type:** Mandatory

rmon event <index> delete

Description: Delete RMON event entry

Syntax: rmon event <index> delete

Parameter:

Name	Description
<index>	RMON event entry index **Valid values:** 1 ~ 128 **Default value:** - **Type:** Mandatory

rmon event <index> description

Description: Description for the RMON event

Syntax: rmon event <index> description <string>

Parameter:

Name	Description
<index>	RMON event entry index **Valid values:** 1 ~ 128 **Default value:** - **Type:** Mandatory
<string>	Event description **Valid values:** string type value. (max 31 characters) **Default value:** - **Type:** Mandatory

rmon event <index> owner

Description: Set RMON event owner

Syntax: rmon event <index> owner <string>

Parameter:

Name	Description
<index>	RMON event entry index **Valid values:** 1 ~ 128 **Default value:** - **Type:** Mandatory
<string>	Owner name **Valid values:** string type value. (max 31 characters) **Default value:** - **Type:** Mandatory

rmon event <index> type

Description: Set RMON event type (no alarm, only syslog, only SNMP trap, or both syslog and SNMP trap)

Syntax: rmon event <index> type {none | log | trap | both}

Parameter:

Name	Description
<index>	RMON event entry index **Valid values:** 1 ~ 128 **Default value:** - **Type:** Mandatory

rmon history <index> buckets_requested

Description: Set RMON history buckets requested

Syntax: rmon history <index> buckets_requested <number>

Parameter:

Name	Description
<index>	RMON history control entry index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory
<string>	Buckets requested value **Valid values:** 1 ~ 65535 **Default value:** - **Type:** Mandatory

rmon history <index> delete

Description: Delete RMON history entry

Syntax: rmon history <index> delete

Parameter:

Name	Description
<index>	RMON history control entry index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory

rmon history <index> ifc

Description: Set Physical interface

Syntax: rmon history <index> ifc <number>

Parameter:

Name	Description
<index>	RMON history control entry index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory
<number>	Physical interface index **Valid values:** 1 ~ 2 **Default value:** - **Type:** Mandatory

rmon history <index> interval

Description: Set RMON history interval

Syntax: rmon history <index> interval <number>

Parameter:

Name	Description
<index>	RMON history control entry index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory
<number>	History interval **Valid values:** 1~3600 (sec) **Default value:** - **Type:** Mandatory

rmon history <index> owner

Description: Set RMON history owner

Syntax: rmon history <index> owner <string>

Parameter:

Name	Description
<index>	RMON history control entry index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory
<string>	Owner name **Valid values:** string type value. (max 31 characters) **Default value:** - **Type:** Mandatory

rmon statistic <index> delete

Description: Delete RMON statistic entry

Syntax: rmon statistic <index> delete

Parameter:

Name	Description
<index>	RMON statistic entry index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory

rmon statistic <index> ifc

Description: Set Physical interface

Syntax: rmon statistic <index> ifc <number>

Parameter:

Name	Description
<index>	RMON history control entry index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory
<number>	Physical interface index **Valid values:** 1 ~ 2 **Default value:** - **Type:** Mandatory

rmon statistic <index> owner

Description: Set RMON statistic owner

Syntax: rmon statistic <index> owner <string>

Parameter:

Name	Description
<index>	RMON history control entry index **Valid values:** 1 ~ 10 **Default value:** - **Type:** Mandatory
<string>	Owner name **Valid values:** string type value. (max 31 characters) **Default value:** - **Type:** Mandatory

route

Description: Add routing to route table

Syntax: route <ipv4 address > netmask <ipv4 address > gateway <ipv4 address >

Parameter:

Name	Description
<ipv4 address>	IP address
	Valid values: xxx.xxx.xxx.xxx (xxx:0~255)
	Default value: -
	Type: Mandatory

route default

Description: Set default route

Syntax: route default <ipv4 address>

Parameter:

Name	Description
<ipv4 address>	Default route IP address
	Valid values: xxx.xxx.xxx.xxx (xxx:0~255)
	Default value: -
	Type: Mandatory

route delete

Description: Delete routing from route table

Syntax: route delete <ipv4 address> netmask <ipv4 address>

Parameter:

Name	Description
<ipv4 address>	IP address
	Valid values: xxx.xxx.xxx.xxx (xxx:0~255)
	Default value: -
	Type: Mandatory

runningcfg active partition

Description: There are two memory partitions for storing the configuration data. This command allows you to select the flash boot point (partition) for the next power-on.

Syntax: runningcfg load partition <number>

Parameter:

Name	Description
<number>	Partition number **Valid values:** 1 ~ 2 **Default value:** - **Type:** Mandatory

runningcfg load partition

Description: Load running configuration from memory

Syntax: runningcfg load partition <number>

Parameter:

Name	Description
<number>	Partition number **Valid values:** 1 ~ 2 **Default value:** - **Type:** Mandatory

runningcfg login

Description: Login FTP server

Syntax: runningcfg login <ipv4 address> put <filename>

Parameter:

Name	Description
<ipv4 address>	IP address of TFTP server. **Valid values:** xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** - **Type:** Mandatory
<filename>	Path and File name (max 31 characters) **Default value:** - **Type:** Mandatory

runningcfg write partition

Description: Write running configuration to memory

Syntax: runningcfg write partition <number>

Parameter:

Name	Description
<number>	Partition number **Valid values:** 1 ~ 2 **Default value:** - **Type:** Mandatory

snmp <index> community

Description: Set snmp read only or read/write community string

Syntax: snmp <index> community {ro | rw} <community>

Parameter:

Name	Description
<index>	SNMP community index **Valid values:** 1 ~ 32 **Default value:** - **Type:** Mandatory
<community>	Community string. (max 31 characters; note that community names beginning with a digital number are not allowed) **Default value:** public **Type:** Mandatory

snmp notify

Description: Set SNMP notify information / Delete SNMP notify tag

Syntax: snmp notify <name> {tag <tag> | delete}

Parameter:

Name	Description
<name>	Notify name string. (max 31 characters) **Default value:** - **Type:** Mandatory
<tag>	Notify Tag string. (max 31 characters) **Default value:** - **Type:** Mandatory

snmp target <name> address

Description: Set SNMP target address

Syntax: snmp target <name> address <ipv4 address> port <port>

Parameter:

Name	Description
<name>	SNMP target name **Valid values:** (max 31 characters) **Default value:** - **Type:** Mandatory
<ipv4 address>	Target IP address **Valid values:** xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** - **Type:** Mandatory
<port>	SNMP target port **Valid values:** 1 ~ 65535 **Default value:** 162 **Type:** Mandatory

snmp target <name> delete

Description: Delete SNMP target tag list

Syntax: snmp target <name> delete

Parameter:

Name	Description
<name>	SNMP target name **Valid values:** (max 31 characters) **Default value:** - **Type:** Mandatory

snmp target <name> tag-list

Description: Set SNMP target tag list

Syntax: snmp target <name> tag-list <string>

Parameter:

Name	Description
<name>	SNMP target name **Valid values:** (max 31 characters) **Default value:** - **Type:** Mandatory
<string>	SNMP target tag list **Valid values:** (max 31 characters) **Default value:** - **Type:** Mandatory

snmp target <name> version

Description: Set SNTP target trap version to V1 or V2C

Syntax: snmp target <name> version {v1 | v2c}

Parameter:

Name	Description
<name>	SNMP target name **Valid values:** (max 31 characters) **Default value:** - **Type:** Mandatory

sntp polling interval

Description: Set SNTP polling interval
Syntax: sntp polling interval <number>
Parameter:

Name	Description
<number>	Polling interval (in seconds) **Valid values:** 60~65535 **Default value:** 600 **Type:** Mandatory

sntp server address

Description: Set SNTP server ip address
Syntax: snmp server address <ipv4 address>
Parameter:

Name	Description
<ipv4 address>	IP address of SNTP server. **Valid values:** xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** 0.0.0.0 **Type:** Mandatory

syslog server

Description: Set system log server
Syntax: syslog server <ipv4 address>
Parameter:

Name	Description
<ipv4 address>	Syslog server IP address **Valid values:** xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** 0.0.0.0 **Type:** Mandatory

tcm color-aware

Description: Set Color Aware or Color Blind TCM Policer
Syntax: tcm color-aware {aware | blind}
Parameter: None

tcm color-field

Description: Set TCM color field to be VLAN priority or DSCP
Syntax: tcm color-field {vprio | dscp}
Parameter: None

tcm green

Description: Set TCM green color value
Syntax: tcm green <number>
Parameter:

Name	Description
<number>	TCM green color value **Valid values:** 0~7 for VLAN priority color field; 0~63 for DSCP color field **Default value:** 1 **Type:** Mandatory

tcm non-conform-pkt

Description: Set the action for non-conforming packets; discard or tag. If "Tag" is selected, then all the packets will be markes as green, yellow or red in the Color field.
Syntax: tcm non-conform-pkt {discard | tag}
Parameter: None

tcm red

Description: Set TCM red color value
Syntax: tcm red <number>
Parameter:

Name	Description
<number>	TCM red color value **Valid values:** 0~7 for VLAN priority color field; 0~63 for DSCP color field **Default value:** 7 **Type:** Mandatory

tcm yellow

Description: Set TCM yellow color value

Syntax: tcm yellow <number>

Parameter:

Name	Description
<number>	TCM yellow color value **Valid values:** 0~7 for VLAN priority color field; 0~63 for DSCP color field **Default value:** 3 **Type:** Mandatory

temperature threshold

Description: Shelf temperature threshold

Syntax: temperature threshold {up | down | fan} <number>

Parameter:

Name	Description
<number>	Temperature threshold value **Valid values:** up: -55 ~ 85 down: -55 ~ 85 fan: -40 ~ 15 **Default value:** up: 65 down: 65 fan: -40 **Type:** Mandatory

temperature shelf time

Description: Shelf time

Syntax: temperature shelf time {up | down} <number>

Parameter:

Name	Description
<number>	Shelf time value **Valid values:** 1 ~ 255 **Default value:** 10 **Type:** Mandatory

time set date

Description: Set date of the system (default is current system date)

Syntax: time set date {MM-DD-YY | MM-DD-CCYY}

Parameter:

Name	Description
MM	Month **Valid values:** 01-12 **Type:** Mandatory
DD	Day of month **Valid values:** 01-31 **Type:** Mandatory
CC	Century **Valid values:** 0 **Type:** Optional
YY	Short year start from 2000 **Valid values:** 00-99 **Type:** Mandatory

time set time

Description: Set time of the system (default is current system time)

Syntax: time set time {hh:mm | hh:mm:ss}

Parameter:

Name	Description
hh	Hour in 24-hour format **Valid values:** 00-23 **Type:** Mandatory
mm	Minute **Valid values:** 00-59 **Type:** Mandatory
ss	Second **Valid values:** 00-59 **Type:** Optional

time set timezone

Description: Set timezone

Syntax: time set timezone <timezone>

Parameter:

Name	Description	
timezone	Timezone	
	Valid values:	
	idl	(GMT-12:00) International Date Line
	idlw	(GMT-12:00) International Date Line West
	nt	(GMT-11:00) Nome Time
	ahst	(GMT-10:00) Alaska GMT Hawaii Standard Time
	hst	(GMT-10:00) Hawaiian Standard Time
	bdt	(GMT-10:00) BDT
	cat	(GMT-10:00) Central Alaska Time
	yst	(GMT-09:00) Yukon Standard Time
	hdt	(GMT-09:00) HDT
	pst	(GMT-08:00) Pacific Standard Time
	ydt	(GMT-08:00) YDT
	mst	(GMT-07:00) Mountain Standard Time
	pdt	(GMT-07:00) Pacific Daylight Time
	cst	(GMT-06:00) Central Standard Time
	mdt	(GMT-06:00) Mountain Daylight Time
	est	(GMT-05:00) Eastan Standard Time
	cdt	(GMT-05:00) Central Daylight Time
	ast	(GMT-04:00) Atlantic Standard Time
	edt	(GMT-04:00) Eastan Daylight Time
	nst	(GMT-03:30) Newfoundland Standard Time
	adt	(GMT-03:00) Altantic Daylight Time
	bst	(GMT-03:00) Brazil Standard Time
	gst	(GMT-03:00) Greenland Standard Time
	at	(GMT-02:00) Azores Time
	wat	(GMT-01:00) West Africa Time
	gmt	(GMT) Greenwich Mean Time
	wet	(GMT+00:00) Western European Time
	ut	(GMT+00:00) Universal Time
	utc	(GMT+00:00) Universal Time
	cet	(GMT+01:00) Central European Time
	bst	(GMT+01:00) British Summer Time
	met	(GMT+01:00) Middle European Time
	mewt	(GMT+01:00) Middle Eruopean Winter Time

swt	(GMT+01:00) Swedish Winter Time
fwt	(GMT+01:00) French Winter Time
eet	(GMT+02:00) Eastean European Time
mest	(GMT+02:00) Middle European Summer Time
fst	(GMT+02:00) French Summer Time
bt	(GMT+03:00) Baghdad Time
it	(GMT+03:30) Iran Time
zp4	(GMT+04:00) GMT Plus 4 Hours
zp5	(GMT+05:00) GMT Plus 5 Hours
ist	(GMT+05:30) Indian Standard Time
zp6	(GMT+06:00) GMT Plus 6 Hours
nst	(GMT+06:30) North Sumatra Time
sst	(GMT+07:00) South Smatra Time
wast	(GMT+07:00) West Australian Standard Time
jt	(GMT+07:30) Java Time
cct	(GMT+08:00) China Coast Time
hst	(GMT+08:00) HongKong Standard Time
wadt	(GMT+08:00) West Australian Daylight Time
wst	(GMT+08:00) WST
jst	(GMT+09:00) Japan Standard Time
kst	(GMT+09:00) Korean Standard Time
cast	(GMT+09:30) Central Australian Standard Time
sast	(GMT+09:30) South Australian Standard Time
jdt	(GMT+10:00) JDT
gst	(GMT+10:00) Guam Standard Time
east	(GMT+10:00) East Australian Standard Time
cadt	(GMT+10:30) Central Austrlian Daylight Time
sadt	GMT+10:30) South Australian Daylight Time
eadt	(GMT+11:00) East Australian Daylight Time
nzt	(GMT+12:00) New Zealand Time
nzst	(GMT+12:00) New Zealand Standard Time
idle	(GMT+12:00) International Date Line East
nzdt	(GMT+13:00) New Zealand Daylight Time

Type: Mandatory

vlan ethertype s-tag

Description: Set VLAN S-Tag Ether type value

Syntax: vlan ethertype s-tag <number>

Parameter:

Name	Description
<number>	S-Tag Ether type value **Valid values:** 0x0001 ~ 0xfff **Default value:** 0x8100 **Type:** Mandatory

vlan protocol-base

Description: Set Protocol Based VLAN table / Delete the specified entry from Protocol Based VLAN table

Syntax: vlan protocol-base <index> {ethertype <number> vlan <VLAN ID> | disable}

Parameter:

Name	Description
<index>	Protocol Based VLAN table index **Valid values:** 1 ~ 32 **Default value:** - **Type:** Mandatory
<number>	Ether type value **Valid values:** 0x0001 ~ 0xfff **Default value:** 0x8100 **Type:** Mandatory
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

vlan-translation <port>/<pvc> <VLAN ID> gigabit <port> one-to-one

Description: Set one-to-one VLAN translation

Syntax:

1. **C-tag reserved :** vlan-translation <port>/<pvc> <user port VLAN ID> gigabit <port> one-to-one reserved {priority-reserved | priority-replaced <PRIO ID>}
2. **C-tag replaced :** vlan-trans vlan-translation <port>/<pvc> <user port VLAN ID> gigabit <port> one-to-one replaced <uplink VLAN ID> {priority-reserved | priority-replaced <PRIO ID>}
3. **Stacking and C-tag reserved :** vlan-trans vlan-translation <port>/<pvc> <user port VLAN ID> gigabit <port> one-to-one stacking <uplink VLAN ID> {priority-reserved | priority-replaced <PRIO ID>}
4. **Stacking and C-tag replaced :** vlan-translation <port>/<pvc> <user port VLAN ID> gigabit <port> one-to-one stacking <uplink VLAN ID> ctag-replaced <c-tag VLAN ID> <c-tag PRIO ID> {priority-reserved | priority-replaced <PRIO ID>}

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
<user port VLAN ID>	ADSL port VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory
<uplink VLAN ID>	Gigabit uplink port VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory
<PRIO ID>	Replaced the priority level of packets out through the uplink port with the specified value **Valid values:** 0 ~ 7 **Default value:** - **Type:** Mandatory

vlan-translation <port>/<pvc> <VLAN ID> gigabit <port> many-to-one

Description: Set many-to-one VLAN translation

Syntax: vlan-translation <port>/<pvc> <user port VLAN ID> gigabit <port> many-to-one replaced <uplink VLAN ID> {priority-reserved | priority-replaced <PRIO ID>}

Parameter:

Name	Description
<port>	Port number **Valid values:** 1 ~ 24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
<user port VLAN ID>	ADSL port VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory
<uplink VLAN ID>	Gigabit uplink port VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory
<PRIO ID>	Replaced the priority level of packets out through the uplink port with the specified value **Valid values:** 0 ~ 7 **Default value:** - **Type:** Mandatory

vlan-translation <port>/<pvc> <VLAN ID> disable

Description: Delete the specified entry from the VLAN translation table

Syntax: vlan-translation <port>/<pvc> <VLAN ID> disable

Parameter:

Name	Description
<port>	ADSL Port number **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
<VLAN ID>	ADSL port VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

Chapter 6 Ethernet Interface and Interface Mode Commands

Chapter contents

Ethernet Interface Mode Commands

The commands in this section can be executed only in the Ethernet Interface execution mode. Ethernet interface mode commands are executed with the **(ethernet-intf-conf)#** prompt.

bridge

Description:	Enter bridge configuration mode / Set bridge port to default status
Syntax:	bridge [default]
Parameter:	None

gbe admin

Description:	Set Gigabit Ethernet administrative status (ON/OFF)
Syntax:	gbe admin {on | off}
Parameter:	None

gbe speed

Description:	Set Gigabit ethernet speed to auto-negotiate, 100Mbps half duplexing, or 100Mbps full duplexing
Syntax:	gbe speed {auto | half_100mbps | full_100mbps }
Parameter:	None

Interface Mode Commands

The commands in this section can be executed only in the Interface execution mode. Interface mode commands are executed with the **(intf-conf)#** prompt.

bridge

Description: Enter ATM-bridge configuration mode / Disable bridge port

Syntax: bridge <bridge id> [disable]

Parameter:

Name	Description
bridge	Bridge number **Valid values**: 1 ~ 8 **Default value:** 1 **Type:** Mandatory

adsl-config

Description: Enter adsl configuration mode

Syntax: adsl-config

Parameter: None

ipoa

Description: Enter IPoA (RFC 2684) routed moded

Syntax: ipoa

Parameter: None

Chapter 7 ATM Bridge Mode Commands

Chapter contents

ATM Bridge Mode Commands

The commands in this section can be executed only in the ATM Bridge execution mode. ATM Bridge mode commands are executed with the (**bridge-atm-conf**)# prompt.

accfrm

Description: Set acceptable frame type (untagged only, tagged only, or all)
Syntax: accfrm {all | tag | untag}
Parameter: None

accounting disable

Description: Disable accounting after authentication
Syntax: accounting disable
Parameter: None

accounting enable

Description: Enable accounting for authentication
Syntax: accounting enable
Parameter: None

auth disable

Description: Disable port authentication
Syntax: auth disable
Parameter: None

auth enable

Description: Enable port authentication
Syntax: auth enable
Parameter: None

auth-server-timeout

Description: 802.1x Timeout for Radius Retries

Syntax: auth-server-timeout <number>

Parameter:

Name	Description
<number>	Timeout for Radius Retries **Valid values:** 1 ~ 65534 **Default value:** 60 **Type:** Mandatory

auth-supp-timeout

Description: 802.1x Timeout for requesting the supplicant to retry

Syntax: auth-supp-timeout <number>

Parameter:

Name	Description
<number>	Timeout for Supplicant retries **Valid values:** 1 ~ 65534 **Default value:** 60 **Type:** Mandatory

auth-tx-period

Description: 802.1x Timeout for Supplicant Re-transmissions before sending the request

Syntax: auth-tx-period <number>

Parameter:

Name	Description
<number>	Timeout for Supplicant Re-transmissions **Valid values:** 1 ~ 65534 **Default value:** 60 **Type:** Mandatory

default vlan

Description: Set default VLAN ID for a bridge port

Syntax: default vlan <VLAN ID>

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values**: 1 ~ 4094 **Default value:** 1 **Type:** Mandatory

default prio

Description: Set default priority value for a bridge port

Syntax: default prio <prio ID>

Parameter:

Name	Description
<prio ID>	Priority ID **Valid values**: 0 ~ 7 **Default value:** 0 **Type:** Mandatory

dhcp-relay

Description: Enable/disable DHCP relay, or Set circuit ID/remote ID for identifying the subscriber

Syntax: dhcp-relay {trusted | untrusted | circuit <circuit ID> | remote <remote ID>}

Parameter:

Name	Description
<circuit ID>	Circuit ID **Valid values**: string type (max length 48) **Default value:** - **Type:** Mandatory
<remote ID>	Remote ID **Valid values**: string type (max length 48) **Default value:** - **Type:** Mandatory

egress

Description: Default PVID egress taged/untagged setting
Syntax: egress {tag | untag}
Parameter: None

force priority

Description: Force priority setting. **Disabled:** Reserve the original priority of all packets. egress: force the priority value of all packets sent out from this bridge port's default VLAN to be the default VLAN priority, so this rule only works on default VLAN of this bridge port. **Ingress:** Force applying the default VLAN priority value to all the packets received on this bridge port (so this rule will work on all the member-set of this bridge port). **Both:** Combine the rules of Ingress and Egress.
Syntax: force priority {disable | engress | ingress | both}
Parameter: None

igmp-acl bind

Description: IGMP ACL (Access Control List) binding profile configuration
Syntax: igmp-acl bind {<number> [on] | on | off | reset}
Parameter:

Name	Description
<number>	IGMP ACL profile index **Valid values**: 1~ 15 **Default value:** 0 **Type:** Mandatory

igmp-acl max-group

Description: per port limit IGMP join group number
Syntax: igmp-acl max-group <number>
Parameter:

Name	Description
<number>	IGMP ACL profile index **Valid values**: 1~ 128 **Default value:** 8 **Type:** Mandatory

ingress

Description: Enable/disable ingress filter mode
Syntax: ingress {enable | disable}
Parameter: None

interim-interval

Description: 802.1x Timeout for Accounting Information Update
Syntax: interim-interval <number>
Parameter:

Name	Description
<number>	Timeout for Accounting Information Updated **Valid values**: 60 ~ 600 **Default value:** 300 **Type:** Mandatory

ip-allowed

Description: Enable/disable IP allowed function (user can specify allowed source IP address per bridge port)
Syntax: ip-allowed {enable | disable}
Parameter: None

isolation

Description: Enable/Disable default PVID isolation setting
Syntax: isolation [disable]
Parameter: None

mac-learning

Description: Enable/Disable MAC learning ability of a bridge port
Syntax: mac-learning {enable | disable}
Parameter: None

max-reauth-req

Description: 802.1x Max No. of Retries to supplicant (sending requests to the autnetication server if no response is received)

Syntax: max-reauth-req <number>

Parameter:

Name	Description
<number>	Max number of retries **Valid values**: 1 ~ 10 **Default value:** 2 **Type:** Mandatory

max-req

Description: 802.1x Max No. of Retries to supplicant for EAP-Request frames of types other than EAP-Request / Identity

Syntax: max-req <number>

Parameter:

Name	Description
<number>	Maximum number of retries **Valid values**: 1 ~ 10 **Default value:** 2 **Type:** Mandatory

max-mac

Description: Set the maximum users allowed to access Internet based on user MAC address counter on per ATM PVC basis

Syntax: max-mac <number>

Parameter:

Name	Description
<number>	Maximum number of the MAC addresses **Valid values**: 1 ~ 128 **Default value:** 0 **Type:** Mandatory

port-control auto

Description: Set to the system default authentication state for the port
Syntax: port-control auto
Parameter: None

port-control force-authorized

Description: Force this port authorized state
Syntax: port-control force-authorized
Parameter: None

port-control force-unauthorized

Description: Force this port unauthorized state
Syntax: port-control force-unauthorized
Parameter: None

priority-regen

Description: VLAN priority value regeneration or Delete VLAN priority tag filter
Syntax: priority-regen incoming <incoming prio> {outgoing <outgoing prio> | disable}
Parameter:

Name	Description
<incoming prio>	Incoming VLAN priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory
<outgoing prio>	Outgoing VLAN priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory

protocol-base

Description: Enable/disable protocol-based VLAN
Syntax: protocol-base {enable | disable}
Parameter: None

pvc

Description: Set VPI and VCI

Syntax: pvc <VPI>/<VCI>

Parameter:

Name	Description
<VPI>	Virtual Path identifier **Valid values**: 0 ~ 255 **Default value:** 0 **Type:** Mandatory
<VCI>	Virtual Channel Identifier **Valid values**: 21, 32~65535 **Default value:** 35 **Type:** Mandatory

pvc atmdesc

Description: List ATM traffic descriptor

Syntax: pvc atmdesc

Parameter: None

pvc atmdesc plc

Description: Set ATM police (Rx) descriptor

Syntax: pvc atmdesc plc <number>

Parameter:

Name	Description
<number>	ATM descriptor number **Valid values**: Enter 'pvc atmdesc' command to see the descriptor list. **Default value:** - **Type:** Mandatory

pvc atmdesc shp

Description: Set ATM police (Tx) descriptor

Syntax: pvc atmdesc shp <number>

Parameter:

Name	Description
<number>	ATM descriptor number **Valid values**: Enter 'pvc atmdesc' command to see the descriptor list. **Default value:** - **Type:** Mandatory

pvc encapsulation

Description: Set Encapsulation type

Syntax: pvc encapsulation {llc | vcmux | auto}

Parameter: None

Note: The Model 3124 supports auto-detection of the ATM AAL5 encapsulation method, LLC or VC-Mux. Meanwhile, the Model 3124 is also able to automatically sense the following protocol encapsulations: PPPoE over ATM (per RFC 2684), IPoE over ATM bridge mode, and PPP over ATM. IPoA works on individual PVC. However, there are limitations on auto-detection of encapsulations:

1. LLC/VC-Mux automatically detection is only applicable to PVC#1 ~ PVC#4 of each ADSL port. PVC#5 ~ PVC#8 must be assigned the ATM AAL5 encapsulation method manually.
2. PPPoA works only for PVC#1 ~ PVC#4.

quiet-period

Description: 802.1x Quiet Period in Seconds (The period that 802.1x system stay in the quiet state).

Syntax: quiet-period <number>

Parameter:

Name	Description
<number>	Timeout for quiet period **Valid values**: 1 ~ 65534 **Default value:** 60 **Type:** Mandatory

reauthentication disable

Description: Disable Reauthentication for this port
Syntax: reauthentication disable
Parameter: None

reauthentication enable

Description: Enable Reauthentication for this port
Syntax: reauthentication enable
Parameter: None

reauth-period

Description: 802.1x Time after which an automatic re-authentication should be initiated
Syntax: reauth-period <number>
Parameter:

Name	Description
<number>	Re-authentication period **Valid values:** 1 ~ 65534 **Default value:** 3600 **Type:** Mandatory

stack

Description: Enable/Disable stacking VLAN
Syntax: stack {enable | disable}
Parameter: None

stack tls port enable

Description: Enable VLAN stack TLS (transparent LAN service) port
Syntax: stack tls port {enable | disable}
Parameter: None

tcm-policer

Description: Bind/Unbind Three Color Marking (TCM) Policer profile

Syntax: tcm-policer <number> {bind | unbind}

Parameter:

Name	Description
<number>	TCM policer profile index **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

vlan <VLAN ID> disable

Description: Delete a VLAN ID from memberset table

Syntax: vlan <VLAN ID> disable

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

vlan <VLAN ID> list

Description: Show memberset setting by VLAN

Syntax: vlan <VLAN ID> list

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

vlan <VLAN ID> priority

Description: Set VLAN memberset priority (specify priority level or reserved the original priority, tag or untag, enable or disable port isolation)

Syntax: vlan <VLAN ID> priority {<prio ID> | reserved} {tag | untag} isolation [disable]

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values**: 1 ~ 4094 **Default value:** - **Type:** Mandatory
<prio ID>	Priority ID **Valid values**: 0 ~ 7 **Default value:** 0 **Type:** Mandatory

vlan list

Description: Show memberset setting by VLAN

Syntax: vlan list

Parameter: None

Chapter 8 GBE Bridge and GBE-LA Bridge Mode Commands

Chapter contents

GBE Bridge Mode Commands

The commands in this section can be executed only in the GBE Bridge execution mode.

accfrm

Description: Set acceptable frame type (untagged only, tagged only, or all)
Syntax: accfrm {all | tag | untag}
Parameter: None

default vlan

Description: Set default VLAN ID for a bridge port
Syntax: default vlan <VLAN ID>
Parameter:

Name	Description
<VLAN ID>	VLAN ID
	Valid values: 1 ~ 4094
	Default value: 1
	Type: Mandatory

default prio

Description: Set default priority value for a bridge port
Syntax: default prio <prio ID>
Parameter:

Name	Description
<prio ID>	Priority ID
	Valid values: 0 ~ 7
	Default value: 0
	Type: Mandatory

egress

Description: Default PVID egress taged/untagged setting
Syntax: egress {tag | untag}
Parameter: None

ingress

Description: Enable/disable ingress filter mode
Syntax: ingress {enable | disable}
Parameter: None

isolation

Description: Enable/Disable default PVID isolation setting
Syntax: isolation [disable]
Parameter: None

link mode

Description: Set link mode (uplink mode or user mode)
Syntax: link mode {uplink | user}
Parameter: None

max-mac

Description: Set the maximum users allowed to access Internet based on user MAC address counter on per ATM PVC basis
Syntax: max-mac <number>
Parameter:

Name	Description
<number>	Maximum number of the MAC addresses **Valid values**: 1 ~ 4096 for GBE interface, 1 ~ 128 for ADSL interface **Default value:** 0 **Type:** Mandatory

priority-regen

Description: VLAN priority value regeneration or Delete VLAN priority tag filter

Syntax: priority-regen incoming <incoming prio> {outgoing <outgoing prio> | disable}

Parameter:

Name	Description
<incoming prio>	Incoming VLAN priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory
<outgoing prio>	Outgoing VLAN priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory

stack

Description: Enable/Disable VLAN stacking

Syntax: stack vlan [disable]

Parameter: None

tcm-policer

Description: Bind/Unbind Three Color Marking (TCM) Policer profile

Syntax: tcm-policer <number> {bind | unbind}

Parameter:

Name	Description
<number>	TCM policer profile index **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

vlan <VLAN ID> disable

Description: Delete a VLAN ID from memberset table

Syntax: vlan <VLAN ID> disable

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

vlan <VLAN ID> list

Description: Show memberset setting by VLAN

Syntax: vlan <VLAN ID> list

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

vlan <VLAN ID> priority

Description: Set VLAN memberset priority (specify priority level or reserved the original priority, tag or untag, enable or disable port isolation)

Syntax: vlan <VLAN ID> priority {<prio ID> | reserved} {tag | untag} isolation [disable]

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values**: 1 ~ 4094 **Default value:** - **Type:** Mandatory
<prio ID>	Priority ID **Valid values**: 0 ~ 7 **Default value:** 0 **Type:** Mandatory

vlan list

Description: Show memberset setting by VLAN

Syntax: vlan list

Parameter: None

GBE-LA Bridge Mode Commands

accfrm

Description: Set acceptable frame type (untagged only, tagged only, or all)
Syntax: accfrm {all | tag | untag}
Parameter: None

default vlan

Description: Set default VLAN ID for a bridge port
Syntax: default vlan <VLAN ID>
Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** 1 **Type:** Mandatory

default prio

Description: Set default priority value for a bridge port
Syntax: default prio <prio ID>
Parameter:

Name	Description
<prio ID>	Priority ID **Valid values:** 0 ~ 7 **Default value:** 0 **Type:** Mandatory

egress

Description: Default PVID egress taged/untagged setting
Syntax: egress {tag | untag}
Parameter: None

ingress

Description: Enable/disable ingress filter mode
Syntax: ingress {enable | disable}
Parameter: None

isolation

Description: Enable/Disable default PVID isolation setting
Syntax: isolation [disable]
Parameter: None

link mode

Description: Set link mode (uplink mode or user mode)
Syntax: link mode {uplink | user}
Parameter: None

max-mac

Description: Set the maximum users allowed to access Internet based on user MAC address counter on per ATM PVC basis
Syntax: max-mac <number>
Parameter:

Name	Description
<number>	Maximum number of the MAC addresses **Valid values**: 1 ~ 4096 **Default value:** 0 **Type:** Mandatory

priority-regen

Description: VLAN priority value regeneration or Delete VLAN priority tag filter

Syntax: priority-regen incoming <incoming prio> {outgoing <outgoing prio> | disable}

Parameter:

Name	Description
<incoming prio>	Incoming VLAN priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory
<outgoing prio>	Outgoing VLAN priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory

stack

Description: Enable/Disable VLAN stacking

Syntax: stack vlan [disable]

Parameter: None

tcm-policer

Description: Bind/Unbind Three Color Marking (TCM) Policer profile

Syntax: tcm-policer <number> {bind | unbind}

Parameter:

Name	Description
<number>	TCM policer profile index **Valid values:** 1 ~ 24 (48) **Default value:** - **Type:** Mandatory

vlan <VLAN ID> disable

Description: Delete a VLAN ID from memberset table

Syntax: vlan <VLAN ID> disable

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

vlan <VLAN ID> list

Description: Show memberset setting by VLAN

Syntax: vlan <VLAN ID> list

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory

vlan <VLAN ID> priority

Description: Set VLAN memberset priority (specify priority level or reserved the original priority, tag or untag, enable or disable port isolation)

Syntax: vlan <VLAN ID> priority {<prio ID> | reserved} {tag | untag} isolation [disable]

Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values**: 1 ~ 4094 **Default value:** - **Type:** Mandatory
<prio ID>	Priority ID **Valid values**: 0 ~ 7 **Default value:** 0 **Type:** Mandatory

vlan list

Description: Show memberset setting by VLAN

Syntax: vlan list

Parameter: None

Chapter 9 ADSL Configure Mode Commands

Chapter contents

ADSL Configure Mode Commands

The commands in this section can be executed only in the ADSL Config mode. ADSL Config mode commands are executed with the (**adsl-intf-conf**)# prompt.

line mode carrier

Description: Set/Clear xDSL line carrier
Syntax: line mode carrier {on | off | oninit}
Parameter: None

line mode diagnostic

Description: Set/Clear xDSL line diagnostics
Syntax: line mode diagnostic {init | off}
Parameter: None

line mode force-l3

Description: Set force to power management L3 mode or not
Syntax: line mode force-l3 {on | off}
Parameter: None

line mode mask

Description: Set/Clear xDSL line Operational mode mask
Syntax: line mode mask {set | clear } <opmode ID>
Parameter:

Name	Description
<opmode id>	The ID of allowed ADSL modes of operation. **Valid values**: Use 'list opmode' command to see all the operation modes. Or refer to Appendix A on page 217. **Default value:** - **Type:** Mandatory

line port

Description: Set xDSL line port information

Syntax: line port {id <id> | description <desc> | phone <phone number>}

Parameter:

Name	Description
<id>	Line ID name (max 32 characters) **Default value:** - **Type:** Mandatory
<desc>	Line port description (max 48 character) **Default value:** - **Type:** Mandatory
<phone number>	Phone number. (max 32 characters) **Valid values:** no limit format **Default value:** - **Type:** Mandatory

line profile

Description: Create xDSL line profile

Syntax: line profile {service | spectrum | tca} <number>

Parameter:

Name	Description
<number>	Profile index **Valid values:** 1 ~ 120 (1 ~ 64 for tca profile) **Default value:** - **Type:** Mandatory

line status service

Description: Set xDSL line service status (service ON/OFF/RESET)

Syntax: line status service {on | off | reset}

Parameter: None

Chapter 10 IPoA Configure Mode Commands

Chapter contents

IPoA Configure Mode Commands

The commands in this section can be executed only in the IPoA execution mode. IPoA mode commands are executed with the **(ipoa-intf-conf)#** prompt.

brasmac

Description: Display Broadband RAS MAC address by index

Syntax: brasmac <number>

Parameter:

Name	Description
<number>	Broadband RAS MAC Table Index **Valid values**: 1 ~ 48 **Default value:** - **Type:** Mandatory

brasmac list

Description: Show Broadband RAS MAC address table

Syntax: brasmac list

Parameter: None

cpriority

Description: Customer VLAN Priority setting

Syntax: cpriority <prio ID>

Parameter:

Name	Description
<prio ID>	Customer VLAN Priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory

cvlan

Description: Customer VLAN setting
Syntax: cvlan <VLAN ID>
Parameter:

Name	Description
<prio ID>	Customer VLAN ID number **Valid values**: 1 ~ 4094 **Default value:** - **Type:** Mandatory

ipoa-status

Description: IPoA Status setting (enable/disable IPoA)
Syntax: ipoa-status {enable | disable}
Parameter: None

max-mac

Description: Port based allowed maximum number of MAC addresses
Syntax: max-mac <number>
Parameter:

Name	Description
<prio ID>	Number of MAC addresses **Valid values**: 1 ~ 128 **Default value:** - **Type:** Mandatory

pvc

Description: Set VPI and VCI

Syntax: pvc <VPI>/<VCI>

Parameter:

Name	Description
<VPI>	Virtual Path Identifier **Valid values**: 0 ~ 255 **Default value:** 0 **Type:** Mandatory
<VCI>	Virtual Channel Identifier **Valid values**: 21, 32 ~ 65535 **Default value:** 35 **Type:** Mandatory

pvc atmdesc

Description: List ATM traffic descriptor

Syntax: pvc atmdesc

Parameter: None

pvc atmdesc plc

Description: Set ATM police (Rx) descriptor

Syntax: pvc atmdesc plc <number>

Parameter:

Name	Description
<number>	ATM descriptor number **Valid values**: Enter 'pvc atmdesc' command to see the descriptor list. **Default value:** - **Type:** Mandatory

pvc atmdesc shp

Description: Set ATM shaped (Tx) descriptor

Syntax: pvc atmdesc shp <number>

Parameter:

Name	Description
<number>	ATM descriptor number **Valid values**: Enter 'pvc atmdesc' command to see the descriptor list. **Default value:** - **Type:** Mandatory

pvc encapsulation

Description: Set encapsulation type

Syntax: pvc encapsulation {llc | vcmux}

Parameter: None

uplink gigabit

Description: Set GBE uplink mode

Syntax: uplink <port>

Parameter:

Name	Description
<port>	Gigabit Ethernet port number **Valid values**: 1 **Default value:** - **Type:** Mandatory

Chapter 11 Access List Mode Commands

Chapter contents

Access List Mode Commands

The commands in this section can be executed only in the ACL execution mode. ACL mode commands are executed with the **(acl-conf)#** prompt.

bcrate cir

Description: Broadcast rate limiting CIR and LBS setting

Syntax: bcrate cir <cir> lbs <lbs>

Parameter:

Name	Description
<cir>	Committed Information Rate (bps) **Valid values**: 1536 ~ 1000000000 **Default value:** 80000 **Type:** Mandatory
<lbs>	Leakage Bucket Size (millisecond) **Valid values**: 1 ~ 1024 **Default value:** 80 **Type:** Mandatory

bcrate list

Description: Show broadcast rate limiting list

Syntax: bcrate list

Parameter: None

dstmac

Description: Specify destination MAC address of packets to filter / Show specified destination MAC deny access list entry / Delete specified destination MAC deny access list entry / Delete specified destination MAC deny access list entry

Syntax: dstmac <number> deny {xdsl <port>/<pvc> | gigabit <port>} mac <mac address>
dstmac <number> list
dstmac <number> disable

Parameter:

Name	Description
<number>	Destination MAC deny access list number **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values**: 1~ 24(48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values**: 1 ~ 8 **Default value:** - **Type:** Mandatory
<mac address>	Destination MAC address **Valid values**: xx:xx:xx:xx:xx:xx (xx: 00~ff) **Default value:** 00:00:00:00:00:00 **Type:** Mandatory

dstmac list

Description: Display destination MAC deny access list

Syntax: dstmac list

Parameter: None

dstip

Description: Specify destination IP address of packets to filter / Show specified destination IP deny access list entry / Delete specified destination IP deny access list entry

Syntax: dstip <number> deny {xdsl <port>/<pvc> | gigabit <port>} ip <ipv4 address> <netmask>
dstip <number> list
dstip <number> disable

Parameter:

Name	Description
<number>	Destination IP deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values:** 1~24(48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
<ipv4 address>	Destination IP address **Valid values:** xxx.xxx.xxx.xxx (xxx: 0-255) **Default value:** 0.0.0.0 **Type:** Mandatory
<netmask>	Subnet mask **Valid values:** xxx.xxx.xxx.xxx (xxx: 0-255) **Default value:** - **Type:** Optional

dstip list

Description: Display destination IP deny access list

Syntax: dstip list

Parameter: None

ethertype

Description: SpecifyEther Type of packets to filter / Show specified Ether Type deny access list entry / Delete specified Ether Type deny access list entry

Syntax: ethertype <number> deny {xdsl <port>/<pvc> | gigabit <port>} type <ethertype>
ethertype <number> list
ethertype <number> disable

Parameter:

Name	Description
<number>	Ether Type deny access list number **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values**: 1~24(48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values**: 1 ~ 8 **Default value:** - **Type:** Mandatory
<ethertype>	Ether Type value **Valid values**: 0x0001 ~ 0xffff **Default value:** - **Type:** Mandatory

ethertype list

Description: Display Ether Type deny access list

Syntax: ethertype list

Parameter: None

ipprotocol

Description: Specify IP Protocol of packets to reject / Show specify IP protocol access list entry / Delete specify IP protocol deny access list entry

Syntax: ipprotocol <number> deny {xdsl <port>/<pvc> | gigabit <port>} protocol <protocol>
ipprotocol <number> list
ipprotocol <number> disable

Parameter:

Name	Description
<number>	IP Protocol deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values:** 1~24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
protocol	Input protocol name **Valid values:** icmp – (ICMP) Internet Control Message <1> igmp – (IGMP) Internet Group Management <2> ipinip – IP in IP (encapsulation) <4> tcp – (TCP) Transmission Control <6> igp – (IGP) Any private interior gateway <9> udp – (UDP) User Datagram <17> gre – GRE) General Routing Encapsulation <47> eigrp – EIGRP <88> ospf – OSPFIGP <89> **Default value:** 0.0.0.0 **Type:** Mandatory

ip-allowed list

Description: Display static IP allow access list

Syntax: ip-allowed list

Parameter: None

ipprotocol

Description: Specify IP Protocol of packets to reject / Show specify IP Protocol access list entry / Delete specify IP Protocol deny access list entry

Syntax: ipprotocol <number> {xdsl <port>/<pvc> | gigabit <port>} protocol <protocol>
ipprotocol <number> list
ipprotocol <number> disable

Parameter:

Name	Description
<number>	IP Protocol deny access list number **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values**: 1~24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values**: 1 ~ 8 **Default value:** - **Type:** Mandatory
<protocol>	Input protocol name **Valid values**: icmp (ICMP) Internet Control Message <1> igmp (IGMP) Internet Group Management <2> ipinip IP in IP (encapsulation) <4> tcp (TCP) Transmission Control <6> grp (GRP) Globin Reduction Protocol <7> igp (IGP) Any private interior gateway <9> udp (UDP) User Datagram <17> gre (GRE) General Routing Encapsulation <47> eigrp EIGRP <88> ospf OSPF <89> **Default value:** - **Type:** Mandatory

ipprotocol list

Description: Display IP protocol deny access list
Syntax: ipprotocol list
Parameter: None

l4dstport

Description: Specify L4 dest port of packets to reject / Show specify L4 dest port access list entry / Delete specify L4 dest port deny access list entry

Syntax: l4dstport <number> {xdsl <port>/<pvc> | gigabit <port>} port <port number>
l4dstport <number> list
l4dstport <number> disable

Parameter:

Name	Description
<number>	L4 dest port deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values:** 1~ 24 (48)48 for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
<port number>	L4 destination port number **Valid values:** 1 ~ 65535 **Default value:** - **Type:** Mandatory

l4dstport list

Description: Display L4 dest port deny access list
Syntax: l4dstport list
Parameter: None

mcfldrate list

Description: Show flooding rate limiting list
Syntax: mcfldrate list
Parameter: None

mcfldrate vlan

Description: Display flooding rate limiting list
Syntax: mcfldrate vlan <VLAN ID> {list | disable | cir <cir> lbs <lbs>}
Parameter:

Name	Description
<VLAN ID>	VLAN ID **Valid values:** 1 ~ 4094 **Default value:** - **Type:** Mandatory
<cir>	Committed Information Rate (bps) **Valid values:** 1536 ~ 1000000000 **Default value:** 80000 **Type:** Mandatory
<lbs>	Leakage Bucket Size (millisecond) **Valid values:** 1 ~ 1024 **Default value:** 80 **Type:** Mandatory

srcip

Description: Specify source IP address of packets to filter / Show specify source IP deny access list entry / Delete specify source IP deny access list entry

Syntax: srcip <number> deny {xdsl <port>/<pvc> | gigabit <port>} ip <ipv4 address> <netmask>
srcip <number> list
srcip <number> disable

Parameter:

Name	Description
<number>	Source IP deny access list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values:** 1~24(48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
<ipv4 address>	Destination IP address **Valid values:** xxx.xxx.xxx.xxx (xxx: 0-255) **Default value:** 0.0.0.0 **Type:** Mandatory
<netmask>	Subnet mask **Valid values:** xxx.xxx.xxx.xxx (xxx: 0-255) **Default value:** - **Type:** Optional

srcip list

Description: Display source IP deny access list

Syntax: srcip list

Parameter: None

srcmac

Description: Specify source MAC of packets to reject / Show specify source MAC deny access list entry / Delete specify source MAC deny access list entry

Syntax: srcmac <number> deny {xdsl <port>/<pvc> | gigabit <port>} mac <mac address>
srcmac <number> list
srcmac <number> disable

Parameter:

Name	Description
<number>	Source MAC deny access list number **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values**: 1~ 24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values**: 1 ~ 8 **Default value:** - **Type:** Mandatory
<mac address>	MAC address **Valid values**: xx:xx:xx:xx:xx:xx (xx: 00-ff) **Default value:** 00:00:00:00:00:00 **Type:** Mandatory

srcmac list

Description: Display source MAC deny access list

Syntax: srcmac list

Parameter: None

Chapter 12 ATM Description Mode Commands

Chapter contents

ATM Description Mode Commands

ATM Description mode commands are executed with the (**atm-desc-conf**)# prompt.

cbr

Description: CBR traffic setting

Syntax: cbr <index> pcr <pcr> cdvt <cdvt>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory
<pcr>	Peak cell rate number **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<cvdt>	Cell Delay Variation Tolerance **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory

no atmdesc

Description: Delete ATM Description

Syntax: no atmdesc <number>

Parameter:

Name	Description
<number>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory

ubr1

Description: UBR type 1 traffic setting (atmNoClpNoScrCdvt)

Syntax: ubr1 <index> pcr <pcr> cdvt <cdvt>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory
<pcr>	Peak cell rate number **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<cvdt>	Cell Delay Variation Tolerance **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory

ubr2

Description: UBR type 2 traffic setting (atmNoClpTaggingNoScr)

Syntax: ubr2 <index> pcr <pcr> cdvt <cdvt>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory
<pcr>	Peak cell rate number **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<cvdt>	Cell Delay Variation Tolerance **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory

unshp

Description: unshaped traffic setting (atmNoTrafficDescriptor)

Syntax: unshp <index>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory

vbr1

Description: VBR type 1 traffic setting (atmNoClpScrCdvt)

Syntax: vbr1 <index> pcr <pcr> cdvt <cdvt> scr <scr> mbs <mbs>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory
<pcr>	Peak cell rate number **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<cvdt>	Cell Delay Variation Tolerance **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory
<scr>	Sustained Cell rate **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<mbs>	Maximum Burst Size **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory

vbr2

Description: VBR type 2 traffic setting (atmClpNoTaggingScrCdvt)

Syntax: vbr2 <index> pcr <pcr> cdvt <cdvt> scr <scr> mbs <mbs>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory
<pcr>	Peak cell rate number **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<cvdt>	Cell Delay Variation Tolerance **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory
<scr>	Sustained Cell rate **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<mbs>	Maximum Burst Size **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory

vbr3

Description: VBR type 3 traffic setting (atmClpTaggingScrCdvt)

Syntax: vbr3 <index> pcr <pcr> cdvt <cdvt> scr <scr> mbs <mbs>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory
<pcr>	Peak cell rate number **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<cvdt>	Cell Delay Variation Tolerance **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory
<scr>	Sustained Cell rate **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<mbs>	Maximum Burst Size **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory

ubr-shp

Description: UBR shaped traffic setting (atmNoClpNoScr)

Syntax: ubr-shp <index> pcr <pcr>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory
<pcr>	Peak cell rate number **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory

cbr-shp

Description: CBR shaped traffic setting (atmClpTransparentNoScr)

Syntax: cbr-shp <index> pcr <pcr> cvdt <cvdt>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory
<pcr>	Peak cell rate number **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<cvdt>	Cell Delay Variation Tolerance **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory

vbr-shp

Description: VBR shaped traffic setting (atmClpTransparentScr)

Syntax: vbr-shp <index> pcr <pcr> cdvt <cdvt> scr <scr> mbs <mbs>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory
<pcr>	Peak cell rate number **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<cvdt>	Cell Delay Variation Tolerance **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory
<scr>	Sustained Cell rate **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<mbs>	Maximum Burst Size **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory

vbrnrt

Description: VBR-nrt shaped traffic setting (atmClpNoTaggingScrCdvt)

Syntax: vbr-shp <index> pcr <pcr> cdvt <cdvt> scr <scr> mbs <mbs>

Parameter:

Name	Description
<index>	ATM Descriptor index **Valid values**: 1 ~ 251 **Default value:** - **Type:** Mandatory
<pcr>	Peak cell rate number **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<cvdt>	Cell Delay Variation Tolerance **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory
<scr>	Sustained Cell rate **Valid values**: 0 ~65535 **Default value:** - **Type:** Mandatory
<mbs>	Maximum Burst Size **Valid values**: 0 ~ 65535 **Default value:** - **Type:** Mandatory

Chapter 13 Priority List Mode Commands

Chapter contents

Priority List Mode Commands

The commands in this section can be executed only in the Priority List execution mode. Priority List mode commands are executed with the **(prio-conf)#** prompt.

ds

Description: Set Differentiated Service of packets to remark VLAN priority / Show Differentiated Service priority list entry / Disable Differentiated Service priority list entry

Syntax:
ds <number> prio <prio ID> {xdsl <port>/<pvc> | gigabit <port>} dscp <dscp>
ds <number> list
ds <number> disable

Parameter:

Name	Description
<number>	Differentiated Service priority list number. **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<prio ID>	Priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values**:1~24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values**: 1~ 8 **Default value:** - **Type:** Mandatory

<dscp>	Diffserv Code Points, which is a 6-bit number. The standardized combinations are listed below: **default** / **Default value** (bits:000000) af11 / Assured Forwarding Class 1:Low Drop (bits:001010) af12 / Assured Forwarding Class 1:Medium Drop (bits:001100) af13 / Assured Forwarding Class 1:High Drop (bits:001110) af21 / Assured Forwarding Class 2:Low Drop (bits:010010) af22 / Assured Forwarding Class 2:Medium Drop (bits:010100) af23 / Assured Forwarding Class 2:High Drop (bits:010110) af31 / Assured Forwarding Class 3:Low Drop (bits:011010) af32 / Assured Forwarding Class 3:Medium Drop (bits:011100) af33 / Assured Forwarding Class 3:High Drop (bits:011110) af41 / Assured Forwarding Class 4:Low Drop (bits:100010) af42 / Assured Forwarding Class 4:Medium Drop (bits:100100) af43 / Assured Forwarding Class 4:High Drop (bits:100110) ef / Expedited Forwarding (bits:101110)

ds list

Description: Show Differentiated Service priority list
Syntax: ds list
Parameter: None

dstip

Description: Specify dest IP address of packets to remark vlan priority / Show dest IP address priority list entry / Disable dest IP address priority list entry

Syntax: dstip <number> prio <prio ID> {xdsl <port>/<pvc> | gigabit <port>} ip <ipv4 address> <netmask>
dstip <number> list
dstip <number> disable

Parameter:

Name	Description
<number>	Destination IP address priority list number **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<prio ID>	Priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values**:1~24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values**: 1~ 8 **Default value:** - **Type:** Mandatory
<ipv4 address>	Destination IP address **Valid values**: xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** 0.0.0.0 **Type:** Mandatory
<netmask>	Subnet mask **Valid values**: xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** - **Type:** Optional

dstip list

Description: Show destination IP address priority list
Syntax: dstip list
Parameter: None

dstmac

Description: Specify dest MAC of packets to remark vlan priority / Show dest MAC priority list entry / Disable dest MAC priority list entry

Syntax: dstmac <number> prio <prio ID> {xdsl <port>/<pvc> | gigabit <port>} mac <mac address>
dstmac <number> list
dstmac <number> disable

Parameter:

Name	Description
<number>	Destination MAC priority list number **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<prio ID>	Priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values**:1~24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values**: 1~ 8 **Default value:** - **Type:** Mandatory
<mac address>	MAC address **Valid values**: xx:xx:xx:xx:xx:xx (xx:0~ff) **Default value:** 00:00:00:00:00:00 **Type:** Mandatory

dstmac list

Description: Show destination MAC priority list
Syntax: dstmac list
Parameter: None

ethertype

Description: Specify Ether Type of packets to remark vlan priority / Show Ether Type priority list entry / Disable Ether Type priority access list entry

Syntax: ethertype <number> prio <prio ID> {xdsl <port>/<pvc> | gigabit <port>} type <ether-type>
ethertype <number> list
ethertype <number> disable

Parameter:

Name	Description
<number>	TOS (IP Precedence) priority list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Mandatory
<prio ID>	Priority value **Valid values:** 0 ~ 7 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values:** 1~24(48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
<ethertype>	Ether Type value **Valid values:** 0x0001 ~ 0xffff **Default value:** - **Type:** Mandatory

ethertype list

Description: Display Ether Type priority list
Syntax: ethertype list
Parameter: None

ipprotocol

Description: Specify IP Protocol of packets to remark vlan priority / Show IP protocol priority list entry / Disable IP protocol priority list entry

Syntax: ipprotocol <number> deny {xdsl <port>/<pvc> | gigabit <port>} protocol <protocol>
ipprotocol <number> list
ipprotocol <number> disable

Parameter:

Name	Description
<number>	ToS (IP Precedence) priority list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Mandatory
<prio ID>	Priority value **Valid values:** 0 ~ 7 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values:** 1~24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1 ~ 8 **Default value:** - **Type:** Mandatory
protocol	Input protocol name **Valid values:** icmp – (ICMP) Internet Control Message <1> igmp – (IGMP) Internet Group Management <2> ipinip – IP in IP (encapsulation) <4> tcp – (TCP) Transmission Control <6> grp – (GRP) Globin Reduction Protocol <7> igp – (IGP) Any private interior gateway <9> udp – (UDP) User Datagram <17> gre – GRE) General Routing Encapsulation <47> eigrp – EIGRP <88> ospf – OSPF <89> **Default value:** 0.0.0.0 **Type:** Mandatory

ipprotocol list

Description: Display IP protocol priority list
Syntax: ipprotocol list
Parameter: None

srcip

Description: Specify source IP address of packets to remark vlan priority
Syntax: srcip <number> prio <prio ID> {xdsl <port>/<pvc> | gigabit <port>} ip <ipv4 address> <netmask>
srcip <number> list
scrip <number> disable

Parameter:

Name	Description
<number>	Source IP address priority list number **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<prio ID>	Priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values**:1~24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values**: 1~ 8 **Default value:** - **Type:** Mandatory
<ipv4 address>	Destination IP address **Valid values**: xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** 0.0.0.0 **Type:** Mandatory

<netmask>	Subnet mask **Valid values:** xxx.xxx.xxx.xxx (xxx:0~255) **Default value:** - **Type:** Optional

srcip list

Description: Show source IP address priority list
Syntax: srcip list
Parameter: None

srcmac

Description: Specify source MAC of packets to remark vlan priority
Syntax: srcmac <number> prio <prio ID> {xdsl <port>/<pvc> | gigabit <port>} mac <mac address>
scrmac <number> list
scrmac <number> disable

Parameter:

Name	Description
<number>	Source mac address priority list number **Valid values:** 1 ~ 256 **Default value:** - **Type:** Mandatory
<prio ID>	Priority value **Valid values:** 0 ~ 7 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values:**1~24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values:** 1~ 8 **Default value:** - **Type:** Mandatory

<mac address>	MAC address **Valid values**: xx:xx:xx:xx:xx:xx (xx:0~ff) **Default value:** 00:00:00:00:00:00 **Type:** Mandatory

srcmac list

Description: Show source MAC priority list
Syntax: srcmac list
Parameter: None

tos

Description: Specify ToS (IP Precedence) of packets to remark vlan priority / Show ToS (IP Precedence) priority list entry / Disable ToS (IP Precedence) priority list entry

Syntax: tos <number> prio <prio ID> {xdsl <port>/<pvc> | gigabit <port>} precedence <tos>
tos <number> list
tos <number> disable

Parameter:

Name	Description
<number>	ToS (IP Precedence) priority list number **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<prio ID>	Priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values**:1~24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values**: 1~ 8 **Default value:** - **Type:** Mandatory

<tos>	Incoming Type of Service. **Valid values**: 0~7 **Default value:** - **Type:** Mandatory

tos list

Description: Show ToS (IP Precedence) priority list
Syntax: tos list
Parameter: None

vlanid

Description: Specify VLAN ID of packets to remark VLAN priority / Show VLAN id priority list entry / Disable VLAN id priority list entry

Syntax: vlanid <number> prio <prio ID> {xdsl <port>/<pvc> | gigabit <port>} vlan <VLAN ID>
vlanid <number> list
vlanid <number> disable

Parameter:

Name	Description
<number>	Vlan id priority list number **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<prio ID>	Priority value **Valid values**: 0 ~ 7 **Default value:** - **Type:** Mandatory
<port>	Port number **Valid values**:1~24 (48) for xDSL, 1 for GBE **Default value:** - **Type:** Mandatory
<pvc>	PVC number **Valid values**: 1~ 8 **Default value:** - **Type:** Mandatory

<VLAN ID>	VLAN ID number **Valid values**: 1 ~ 4094 **Default value:** - **Type:** Mandatory

vlanid list

Description: Show VLAN id priority list
Syntax: vlanid list
Parameter: None

Chapter 14 Alarm Profile Mode Commands

Chapter contents

Alarm Profile Mode Commands

The commands in this section can be executed only in the Alarm Profile execution mode. Alarm Profile mode commands are executed with the (**alarm-profile**)# prompt.

alarm mask

Description: Mask the alarm

Syntax: alarm mask <name>

Parameter:

Name	Description
<name>	Name of alarm **Valid values**: Refer to Appendix B on page 219. **Default value:** - **Type:** Mandatory

alarm unmask

Description: Unmask the alarm

Syntax: alarm unmask <name>

Parameter:

Name	Description
<name>	Name of alarm **Valid values**: Refer to Appendix B on page 219. **Default value:** - **Type:** Mandatory

alarm major

Description: Set the level of the alarm to Major

Syntax: alarm major <name>

Parameter:

Name	Description
<name>	Name of alarm **Valid values**: Refer to Appendix B on page 219. **Default value:** - **Type:** Mandatory

alarm minor

Description: Set the level of the alarm to Minor

Syntax: alarm minor <name>

Parameter:

Name	Description
<name>	Name of alarm **Valid values**: Refer to Appendix B on page 219. **Default value:** - **Type:** Mandatory

Chapter 15 IGMP-ACL Profile Mode Commands

Chapter contents

IGMP-ACL Profile Mode Commands

The commands in this section can be executed only in the IGMP-ACL Profile execution mode. IGMP-ACL Profile mode commands are executed with the (**igmpacl-profile**)# prompt.

igmp-acl

Description: IGMP group ACL Setting (IP and VLAN) / Delete channel setting

Syntax: igmp-acl <number> {<ipv4 address> vlan <VLAN ID> | delete}

Parameter:

Name	Description
<number>	IGMP ACL channel index. **Valid values**: 1 ~ 256 **Default value:** - **Type:** Mandatory
<ipv4 address>	IGMP group address **Valid values**: 224.0.0.0 ~ 239.255.255.255 The range of addresses from 224.0.0.0 to 224.0.0.255 is reserved for the use of routing protocols and other low-level topology discovery or maintenance protocols. **Default value:** 0.0.0.0 **Type:** Mandatory
<VLAN ID>	VLAN ID **Valid values**: 1 ~ 4094 **Default value:** - **Type:** Mandatory

igmp-acl rebind

Description: IGMP ACL Profile rebind

Syntax: igmp-acl rebind

Parameter: Name

Chapter 16 Rate Limit Profile Mode Commands

Chapter contents

Rate Limit Profile Mode Commands

The commands in this section can be executed only in the Rate Limit Profile execution mode. Rate Limit Profile mode commands are executed with the (**rate-limit-profile**)# prompt.

share-slb

Description: Set share SLB (Single Leaky Bucket) / Delete the share SLB profile

Syntax: share-slb <number> {cir <cir> lbs <lbs> | disable}

Parameter:

Name	Description
<number>	Share SLB profile index **Valid values**: 1 ~ 48 **Default value:** - **Type:** Mandatory
<cir>	Committed Information Rate (bps) **Valid values**: 1536 ~ 1000000000 **Default value:** 80000 **Type:** Mandatory
<lbs>	Leakage Bucket Size (bits) **Valid values**: 1 ~ 1024 **Default value:** - **Type:** Mandatory

share-dlb

Description: Set share DLB (Dual Leaky Bucket) / Delete the share DLB profile

Syntax: share-dlb <number> {cir <cir> lbs <lbs> eir <eir> lbs <lbs> | disable}

Parameter:

Name	Description
<number>	Share DLB profile index **Valid values**: 1 ~ 48 **Default value:** - **Type:** Mandatory
<cir>	Committed Information Rate (bps) **Valid values**: 1536 ~ 1000000000 **Default value:** 80000 **Type:** Mandatory
<lbs>	First Leakage Bucket Size (bits) **Valid values**: 1 ~ 1024 **Default value:** - **Type:** Mandatory
<eir>	Excess Information Rate (bps) **Valid values**: 1536 ~ 1000000000 **Default value:** - **Type:** Mandatory
<lbs>	Second Leakage Bucket Size (bits) **Valid values**: 1 ~ 1024 **Default value:** - **Type:** Mandatory

non-share-slb

Description: Set non-share SLB (Single Leaky Bucket) / Delete the non-share SLB profile

Syntax: non-share-slb <number> {cir <cir> lbs <lbs> | disable}

Parameter:

Name	Description
<number>	Share SLB profile index **Valid values**: 1 ~ 48 **Default value:** - **Type:** Mandatory
<cir>	Committed Information Rate (bps) **Valid values**: 1536 ~ 1000000000 **Default value:** - **Type:** Mandatory
<lbs>	Leakage Bucket Size (bits) **Valid values**: 1 ~ 1024 **Default value:** - **Type:** Mandatory

non-share-dlb

Description: Set non-share DLB (Dual Leaky Bucket) / Delete the non-share DLB profile

Syntax: non-share-dlb <number> {cir <cir> lbs <lbs> eir <eir> lbs <lbs> | disable}

Parameter:

Name	Description
<number>	Share DLB profile index **Valid values**: 1 ~ 48 **Default value:** - **Type:** Mandatory
<cir>	Committed Information Rate (bps) **Valid values**: 1536 ~ 1000000000 **Default value:** - **Type:** Mandatory
<lbs>	First Leakage Bucket Size (bits) **Valid values**: 1 ~ 1024 **Default value:** - **Type:** Mandatory
<eir>	Excess Information Rate (bps) **Valid values**: 1536 ~ 1000000000 **Default value:** - **Type:** Mandatory
<lbs>	Second Leakage Bucket Size (bits) **Valid values**: 1 ~ 1024 **Default value:** - **Type:** Mandatory

Chapter 17 Service Profile Configure Mode Commands

Chapter contents

Service Profile Configure Mode Commands

The commands in this section can be executed only in the Service Profile execution mode. Service Profile mode commands are executed with the (**service-profile#** prompt.

bitrate

Description: Set downstream/upstream Minimum/Maximum/Planned/L2 minimum bit rate

Syntax: bitrate {ds | us} {min | max | planned | l2} <number>

Parameter:

Name	Description
<number>	Bit rate (kb/s). **Valid values**: 0-65535 **Default value:** - **Type:** Mandatory

delay

Description: Set downstream/upstream delay introduced by the interleaving

Syntax: delay {ds | us} <number>

Parameter:

Name	Description
<number>	Delay time (ms). **Valid values**: 1 ~ 63 **Default value:** - **Type:** Mandatory

l2-packet

Description: Set L2 Packet cell

Syntax: l2-packet <number>

Parameter:

Name	Description
<number>	Set L2 Packet cell. **Valid values**: 0 ~ 28 **Default value:** - **Type:** Mandatory

mode

Description: Set downstream/upstream rate adaptive mode to **init** (rate automatically elected at start up only and does not change after that), **dynamic** (rate automatically selected at initialization and is continuously adapted during show time), or **manual** (rate changed manually)

Syntax: mode {ds | us} {init | dynamic | manual}

Parameter: None

noise

Description: Set downstream/upstream minimum impulse noise protection

Syntax: noise {ds | us} <number>

Parameter:

Name	Description
<number>	Noise (tenth symbols). **Valid values**: 0~8 step 0.1 **Default value:** - **Type:** Mandatory

noisemargin

Description: Set Downshift/Upshift Noise Margin in downstream/upstream direction

Syntax: noisemargin {ds | us} {downshift | upshift} <number>

Parameter:

Name	Description
<number>	Downshift/Upshift Noise Margin (tenth symbols). **Valid values**: 0~31 step 0.1 **Default value:** - **Type:** Mandatory

ra-interval

Description: Set Downshift/Upshift Interval in downstream/upstream direction

Syntax: ra-interval {ds | us} {downshift | upshift} <number>

Parameter:

Name	Description
<number>	Downshift/Upshift interval (seconds). **Valid values**: 0 ~ 16383 **Default value:** 10 **Type:** Mandatory

service name

Description: Set service profile name

Syntax: service name <string>

Parameter:

Name	Description
<string>	Profile name. (max 31 characters) **Default value:** - **Type:** Mandatory

Chapter 18 Spectrum Profile Configure Mode Commands

Chapter contents

Spectrum Profile Configure Mode Commands

The commands in this section can be executed only in the Spectrum Profile execution mode. Spectrum Profile mode commands are executed with the (**spectrum-profile**)# prompt.

aggregate

Description: Set downstream/upstream aggregate power level

Syntax: aggregate {ds | us} max powerlevel <number>

Parameter:

Name	Description
<number>	Power level (tenth dBm). **Valid values**: 0~25.5 step 0.1 **Default value:** - **Type:** Mandatory

bands <index> {start | stop}

Description: Set RF bands

Syntax: bands <index> {start | stop} <value>

Parameter:

Name	Description
<index>	Bands array index. **Valid values**: 0~ 7 **Default value:** - **Type:** Mandatory
<value>	Set start / stop frequency (kHz). **Valid values**: 0~ 12000 **Default value:** - **Type:** Mandatory

bands <index> mask

Description: Set bands mask

Syntax: bands <index> mask <value>

Parameter:

Name	Description
<index>	Bands array index. **Valid values**: 0~ 7 **Default value:** - **Type:** Mandatory
<value>	**Valid values**: egress_no_control — egress no control egress_notched — egress notched ingress_low — ingress low ingress_weak — ingress weak ingress_strong — ingress strong rf_signal_am — RF Signal AM Type rf_signal_hamband — RF Signal HAMBAND Type **Default value:** egress_no_control **Type:** Mandatory

carriermask

Description: Set carrier mask

Syntax: carriermask {ds | us} <index> <value>

Parameter:

Name	Description
<index>	Carrier mask array index. **Valid values**: 0~ 63 **Default value:** - **Type:** Mandatory
<value>	Carrier mask array value. **Valid values**: 0x00~0xff (Hex) **Default value:** - **Type:** Mandatory

message-based

Description: Set minimum DS/US message-based data rate that is needed by ATU

Syntax: message-based {ds | us} min <number>

Parameter:

Name	Description
<number>	Min downstream/upstream message-based data rate **Valid values**: 4~28 kbps **Default value:** - **Type:** Mandatory

modem features

Description: Set modem features enable/disable

Syntax: modem features {enable | disable}

Parameter: None

noisemargin

Description: Set downstream/upstream maximum / minimum / target noise margin

Syntax: noisemargin {ds | us} {max | min | target} <number>

Parameter:

Name	Description
<number>	Noise margin value. **Valid values**: 0~31 (or 51.1 means no max noise margin is used) step 0.1. **Default value:** - **Type:** Mandatory

opmode

Description: Set Operational mode

Syntax: opmode {set | clear} <opmode id>

Parameter:

Name	Description
opmode id	The ID of allowed ADSL modes of operation. **Valid values**: Use 'list opmode' command to see all the operation modes. **Default value:** - **Type:** Mandatory

pbomode

Description: Set power backoff operation mode ON/OFF
Syntax: pbomode us {on | off}
Parameter: None

power-mgt disable

Description: Disable power management function for ADSL
Syntax: power-mgt disable
Parameter: None

power-mgt l2 enable

Description: Allow autonomous L2 state entry/exit
Syntax: power-mgt l2 enable
Parameter: None

power-mgt l2_l3 enable

Description: Allow autonomous L2 and L3 state entry/exit
Syntax: power-mgt l2_l3 enable
Parameter: None

power-mgt l0-time

Description: Set the minimum time (in seconds) between Exit from L2 low power state and the next Entry into the L2 low power state
Syntax: power-mgt l0-time <number>
Parameter:

Name	Description
<number>	L0 Time value **Valid values**: 0 ~ 255 (sec) **Default value:** - **Type:** Mandatory

power-mgt l2-time

Description: Set minimum time (in seconds) between an Entry into L2 low power state and the first L2 low power trim request, and between two consecutive L2 power trim requests

Syntax: power-mgt l2-time <number>

Parameter:

Name	Description
<number>	L2 Time value. **Valid values**: 0 ~ 255 (sec) **Default value:** - **Type:** Mandatory

power-mgt l2-atpr

Description: Set maximum aggregate transmit power reduction (in dB) that is allowed at transition of L0 to L2 state or an L2 low power trim request

Syntax: power-mgt l2-atpr <number>

Parameter:

Name	Description
<number>	L2 power reduction range value. **Valid values**: 0 ~ 31 (dB) **Default value:** - **Type:** Mandatory

power-mgt l2-atpr

Description: Set total maximum aggregate transmit power reduction (in dB) that is allowed in the L2 state; the total reduction is the sum of all reductions of L2 Request (i.e., at transition of L0 to L2 state) and L2 power trims

Syntax: power-mgt l2-atpr <number>

Parameter:

Name	Description
<number>	L2 total power reduction range value. **Valid values**: 0 ~ 31 (dB) **Default value:** - **Type:** Mandatory

psdlevel

Description: Set PSD level

Syntax: psdlevel {ds | us} max <number>

Parameter:

Name	Description
<number>	Maximum PSD level (tenth dBm/Hz). **Valid values**: -60 ~ -40 downstream step 0.1 -60 ~ -38 upstream. step 0.1 **Default value:** - **Type:** Mandatory

psdshape

Description: Set PSD shape

Syntax: psdshape ds {cut-off <number> | standard}

Parameter:

Name	Description
<number>	Cut-off frequencies at carrier. **Valid values**: 100-280 step 10 **Default value:** - **Type:** Mandatory

rxaggregate us max powerlevel

Description: Set maximum aggregate receive power level

Syntax: rxaggregate us max powerlevel <number>

Parameter:

Name	Description
<number>	Maximum aggregate receive power level (-255~255 tenth dBm). **Valid values**: -25.5~25.5 step 0.1 **Default value:** - **Type:** Mandatory

spectrum name

Description: Set spectrum profile name

Syntax: spectrum name <string>

Parameter:

Name	Description
<string>	Name of the spectrum profile. (max 31 characters) **Default value:** - **Type:** Mandatory

status modify complete

Description: Set the status of modification

Syntax: status modify complete

Parameter: None

Chapter 19 TCA Profile Mode Commands

Chapter contents

TCA Profile Configure Mode Commands

The commands in this section can be executed only in the TCA Profile execution mode. TCA Profile mode commands are executed with the (**tca-profile**)# prompt.

adsl-tca day

Description: Set threshold value for near-end/far-end day PM

Syntax: adsl-tca day {ne | fe} {es | ses | uas} <number>

Parameter:

Name	Description
<number>	Threshold value. **Valid values**: 0-86400 **Default value:** - **Type:** Mandatory

adsl-tca disable

Description: Disable TCA

Syntax: adsl-tca disable

Parameter: None

adsl-tca enable

Description: Enable TCA

Syntax: adsl-tca enable

Parameter: None

adsl-tca interval

Description: Set threshold value for near-end/far-end interval PM

Syntax: adsl-tca interval {ne | fe} {es | ses | uas | lof | lol | los | errframe} <number>

Parameter:

Name	Description
<number>	Threshold value. **Valid values**: 0-900 **Default value:** - **Type:** Mandatory

Chapter 20 Dot1x Mode Commands

Chapter contents

Dot1x Mode Commands

The commands in this section can be executed only in the Dot1x execution mode.

auth-method

Description: Set priorities of the different authentication methods

Syntax: auth-method <index> {none | radius_1 | radius_2 | radius_3 | profile}

Parameter:

Name	Description
index	Authentication method priority **Valid values**: 1-4 **Default value:** - **Type:** Mandatory

server <number> ip

Description: Set RADIUS Server IP address

Syntax: server <index> ip <ipv4 address>

Parameter:

Name	Description
index	RADIUS Server index **Valid values**: 1-3 **Default value:** - **Type:** Mandatory
ipv4 address	RADIUS Server IP address **Valid values**: - **Default value:** - **Type:** Mandatory

server <number> auth-port

Description: Set the port number for RADIUS Authentication in the Layer-4 header

Syntax: server <index> auth-port <number>

Parameter:

Name	Description
index	RADIUS Server index **Valid values**: 1-3 **Default value:** - **Type:** Mandatory
number	RADIUS Server authentication port **Valid values**: - **Default value:** 1812 **Type:** Mandatory

server <number> acct-port

Description: Set the port number for RADIUS Accoutning in the Layer-4 header

Syntax: server <index> acct-port <number>

Parameter:

Name	Description
index	RADIUS Server index **Valid values**: 1-3 **Default value:** - **Type:** Mandatory
number	RADIUS Server accounting port **Valid values**: - **Default value:** 1813 **Type:** Mandatory

server <number> max-fail

Description: Set the maximum allowable times of continuously failed authentication attempts

Syntax: server <index> max-fail <number>

Parameter:

Name	Description
index	RADIUS Server index **Valid values**: 1-3 **Default value:** - **Type:** Mandatory
number	RADIUS Server maximum fail number **Valid values**: 1-10 **Default value:** 2 **Type:** Mandatory

server <number> secret

Description: Set the authentication key in text format

Syntax: server <index> secret <string>

Parameter:

Name	Description
index	RADIUS Server index **Valid values**: 1-3 **Default value:** - **Type:** Mandatory
string	Secret ID checked between NAS and RADIUS Server **Valid values**: Max 16 character **Default value:** - **Type:** Mandatory

server <index> vlan <number>

Description: The VID of the VLAN which the RADIUS Server belongs to

Syntax: server <index> vlan <number>

Parameter:

Name	Description
index	RADIUS Server index **Valid values**: 1-3 **Default value:** - **Type:** Mandatory
number	VLAN ID **Valid values**: 1-4094 **Default value:** - **Type:** Mandatory

server <number> delete

Description: Delete a RADIUS server setup in the system

Syntax: server <index> delete

Parameter:

Name	Description
index	RADIUS Server index **Valid values**: 1-3 **Default value:** - **Type:** Mandatory

profile delete

Description: Delete an authentication local profile in the system

Syntax: profile <index> delete

Parameter:

Name	Description
index	Authenticate profile index **Valid values**: 1-64 **Default value:** - **Type:** Mandatory

profile <index> username <string> password

Description: Set the username and password for an authetnication local profile

Syntax: profile <index> username <string> password <string>

Parameter:

Name	Description
index	Authenticate profile index **Valid values**: 1-64 **Default value:** - **Type:** Mandatory
string	Setting username of Authenticate profile **Valid values**: Max 16 characters **Default value:** - **Type:** Mandatory
string	Setting password of Authenticate profile **Valid values**: Max 16 characters **Default value:** - **Type:** Mandatory

Chapter 21 Contacting Patton for assistance

Chapter contents

Introduction

This chapter contains the following information:

- "Contact information"—describes how to contact PATTON technical support for assistance.
- "Warranty Service and Returned Merchandise Authorizations (RMAs)"—contains information about the RAS warranty and obtaining a return merchandise authorization (RMA).

Contact information

Patton Electronics offers a wide array of free technical services. If you have questions about any of our other products we recommend you begin your search for answers by using our technical knowledge base. Here, we have gathered together many of the more commonly asked questions and compiled them into a searchable database to help you quickly solve your problems.

- Online support—available at **www.patton.com**.
- E-mail support—e-mail sent to **support@patton.com** will be answered within 1 business day
- Telephone support—standard telephone support is available Monday through Friday, from 8:00 A.M. to 5:00 P.M. EST (8:00 to 17:00 UTC-5), Monday through Friday by calling **+1 (301) 975-1007**

Warranty Service and Returned Merchandise Authorizations (RMAs)

Patton Electronics is an ISO-9001 certified manufacturer and our products are carefully tested before shipment. All of our products are backed by a comprehensive warranty program.

Note If you purchased your equipment from a Patton Electronics reseller, ask your reseller how you should proceed with warranty service. It is often more convenient for you to work with your local reseller to obtain a replacement. Patton services our products no matter how you acquired them.

Warranty coverage

Our products are under warranty to be free from defects, and we will, at our option, repair or replace the product should it fail within one year from the first date of shipment. Our warranty is limited to defects in workmanship or materials, and does not cover customer damage, lightning or power surge damage, abuse, or unauthorized modification.

Out-of-warranty service

Patton services what we sell, no matter how you acquired it, including malfunctioning products that are no longer under warranty. Our products have a flat fee for repairs. Units damaged by lightning or other catastrophes may require replacement.

Returns for credit

Customer satisfaction is important to us, therefore any product may be returned with authorization within 30 days from the shipment date for a full credit of the purchase price. If you have ordered the wrong equipment or you are dissatisfied in any way, please contact us to request an RMA number to accept your return. Patton is not responsible for equipment returned without a Return Authorization.

Return for credit policy

- Less than 30 days: No Charge. Your credit will be issued upon receipt and inspection of the equipment.
- 30 to 60 days: We will add a 20% restocking charge (crediting your account with 80% of the purchase price).
- Over 60 days: Products will be accepted for repairs only.

RMA numbers

RMA numbers are required for all product returns. You can obtain an RMA by doing one of the following:

- Completing a request on the RMA Request page in the *Support* section at **www.patton.com**
- By calling **+1 (301) 975-1000** and speaking to a Technical Support Engineer
- By sending an e-mail to **returns@patton.com**

All returned units must have the RMA number clearly visible on the outside of the shipping container. Please use the original packing material that the device came in or pack the unit securely to avoid damage during shipping.

Shipping instructions

The RMA number should be clearly visible on the address label. Our shipping address is as follows:

Patton Electronics Company
RMA#: xxxx
7622 Rickenbacker Dr.
Gaithersburg, MD 20879-4773 USA

Patton will ship the equipment back to you in the same manner you ship it to us. Patton will pay the return shipping costs.

Appendix A **ADSL Operational Mask Table**

Chapter contents

ADSL Operational Mask Table

Table 5. ADSL Operational Mask

Bit	Description	Bit	Description
0	ANSI_T1.413	32	992_4_I_AllDigital_NonOverlapped
1	ETSI_DTS_TM06006	33	992_4_I_AllDigital_Overlapped
2	992_1_A_Pots_NonOverlapped	34	992_3_L_Pots_NonOverlapped_Mode1
3	992_1_A_Pots_Overlapped	35	992_3_L_Pots_NonOverlapped_Mode2
4	992_1_B_Isdn_NonOverlapped	36	992_3_L_Pots_Overlapped_Mode3
5	992_1_B_Isdn_Overlapped	37	992_3_L_Pots_Overlapped_Mode4
6	992_1_C_TcmIsdn_NonOverlapped	38	992_3_M_Pots_Extend_US_Overlapped
7	992_1_C_TcmIsdn_Overlapped	39	992_3_M_Pots_Extend_US_NonOverlapped
8	992_2_A_Pots_NonOverlapped	40	992_5_A_Pots_NonOverlapped
9	992_2_B_Pots_Overlapped	41	992_5_A_Pots_Overlapped
10	992_2_C_TcmIsdn_NonOverlapped	42	992_5_B_Isdn_NonOverlapped
11	992_2_C_TcmIsdn_Overlapped	43	992_5_B_Isdn_Overlapped
18	992_3_A_Pots_NonOverlapped	46	992_5_I_AllDigital_NonOverlapped
19	992_3_A_Pots_Overlapped	47	992_5_I_AllDigital_Overlapped
20	992_3_B_Isdn_NonOverlapped	48	ANSI_T1.424
21	992_3_B_Isdn_Overlapped	49	ETSI_TS_101_270
24	992_4_A_Pots_NonOverlapped	50	993_1
25	992_4_A_Pots_Overlapped	51	IEEE_8023ah
28	992_3_I_AllDigital_NonOverlapped	56	992_5_J_AllDigital_NonOverlapped
29	992_3_I_AllDigital_Overlapped	57	992_5_J_AllDigital_Overlapped
30	992_3_J_AllDigital_NonOverlapped	58	992_5_M_Pots_Extend_US_NonOverlapped
31	992_3_J_AllDigital_Overlapped	59	992_5_M_Pots_Extend_US_Overlapped

Appendix B **Alarm Table**

Chapter contents

Alarm Table

Table 6. Alarm Table

Alarm ID	Name	Description
104	alm_fan_fail	System Fan Fail
105	alm_self_test_fail	System Self Test Fail
106	alm_above_temper	System Above Temperature
107	alm_below_temper	System Below Temperature
118	alm_dsl_dsp	System DSP Fail
601	alm_adsl_los	Near-end Loss of Signal
602	alm_adsl_lof	Near-end Loss of Frame
603	alm_adsl_lom	Near-end Loss of Margin
610	alm_adsl_lcd	Near-end Loss Cell Delineation
612	alm_adsl_ncd	Near-end No Cell Delineation
613	alm_adsl_los_fe	Far-end Loss of Signal
614	alm_adsl_lof_fe	Far-end Loss of Frame
615	alm_adsl_lom_fe	Far-end Loss of Margin
616	alm_adsl_lopwr_fe	Far-end Loss of Power
619	alm_adsl_commf_fe	Far-end Communication Failure
620	alm_adsl_nopeer_fe	Far-end No Peer Present
622	alm_adsl_lcd_fe	Far-end Loss Cell Delineation
624	alm_adsl_ncd_fe	Far-end No Cell Delineation