



User Manual

Version 1.1



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WARNING INSTRUCTIONS

Before installing IPA-48S, the following the safety instructions must be complied.

- 1. All installation, repair or replacement procedures must be performed by qualified service personnel.
- 2. Before attempting to operate or repair this product, make sure the IPA-48S is properly grounded.
- The maximum recommended operating temperature for the IPA-48S is 65°C.
 Care must be taken to allow sufficient air circulation.
- 4. The connections and equipment that supply power to the IPA-48S should be capable of operating safely within the maximum power requirements of the IPA-48S. If the input DC voltage is more than 10% lower than the standard the IPA-48S may malfunction. Make sure that the power supply is stable and the voltage is correct.
- 5. Do not allow anything to rest on the power cord, and do not locate the product where the power cord can be stepped on. Do not touch exposed connections, components or wiring when power is present.
- 6. To reduce the risk of fire or any other malfunction and damages to the IPA-48S, use the cables and power adapter provided in the package.
- 7. Following installation and the final configuration, the product must comply with the applicable safety standards and regulatory requirements of the country in which it is installed. If necessary, request technical support.
- 8. Do not operate this product with panels removed or with suspected failure or damage to electrical components.
- 9. IPA-48S is not water-proofed. Never place or install the product in a wet location unless specially designed waterproof protection is present.

iTAS will not be responsible for any damages or injuries to the IPA-48S, environment, or operating personnel if any of the safety instructions described above are violated or operating the device in the non-recommended conditions.

1 Introduction

Thank you for choosing the IPA-48S as your broadband access solution. This manual will help you with the setup and configuration of your product.

1.1 IPA-48S/IPA-24S Overview

IPA-48S/24S ADSL2+ IP DSLAM is the up to date ADSL2/+ technology. The introduction of ADSL2+ has a major impact on how the original networks are engineered and how we access them. ADSL2+ is the latest and most advanced broadband technology for residential and business customers. IPA-48S/24S IP DSLAM promises to deliver downstream up to 25 Mbps and upstream up to 1Mbps traffic on short copper loops. IPA-48S/24S is designed to support the wide deployment of triple play features and offers the user many advanced services such as voice, high speed data, video on demand. Another benefit of IPA-48S/24S is to enable service providers to use their existing DSL infrastructure at their own pace and within reasonable cost.

1.2 Application

Residential Access Data Splitter Telephone Splitter Telephone AGA-100 ADSL2/2+Router Splitter AGA-100 ADSL2/2+Router AGA-100 ACCess AGA-100 ADSL2/2+Router AGA-100 ACCESS ADSL2+ IP DSLAM

Application1: MTU Active Fiber Application

Application2: MTU PON Application



1.3 Specification

System Features		Protocol Support	
•	DSL/POTS Ports	 IGMPv1, v2, v3 snooping and proxy 	
	48-port or 24-port ADSL/2/2+ subscriber	 PPPoE Intermediate Agent 	
	interface with built-in POTS Splitter	 DHCP L2 Relay – TR101 Appendix B 	
	Centronic 50-pin connector for Telco line in	• IEEE 802.1x	
	and out	• STP (802.1D) / RSTP (802.1W)	
•	Alarm Relay for 3 inputs and 1 output	SNTP Client	
•	Iwo Uplink Port SFP/GE Combos	 SysLog Client 	
•	Plugable FAN Module	ADSL/ADSL2/ADSL2+ Interface	
•	ATM Functionality	ADSL/ADSL2/ADSL2+: Downstream DMT data rate	
	RFC 1483/2684 multi-protocol apparentiation over ATM AAL 5	of 32 kb/s up to 25 Mbps; Upstream DMT data rate of	
	encapsulation over ATM AALS	32 kb/s up to 1 Mbps	
	LLC/VCMUX auto detection	 Complies with the ITU G.992.1 (G.DMT), G.DMT.bis, ITU G.992.2 (GLite) ANSLT1 /13 issue 2. ITU 	
		G.994.1 (G.handshake) for ADSL, G.992.3 for	
	Shaping	ADSL2, and G.992.5 for ADSL2+ standards	
•	Bridging Port	 Extended power management capabilities to 	
_	Tagged/Untagged/All Frame Filter	optimize power consumption for each application	
	 VLAN Ingress Filter 	Distance up to 18 kft	
	 Static and Port-based VLAN 	Management	
	 S-tag/C-tag Priority Mapping 	 Local RS-232 CLI and Ethernet Web/SNMP/TELNET management 	
	 Support for Transparent I AN Service (TLS) 	Remote in-band Web/SNMP/TELNET management	
•	VI AN	Firmware upgradeable via HTTP FTP or TFTP	
	Single or Double tag support	 Support for SNMP v1 v2 v3 	
	► N:1/1:1 VLAN		
•	Forwarding Database	Operating Requirements	
	16K MAC address entries	 Operating Temperature: -20 to 65°C 	
	Dvnamic/Static FDB	 Storage Temperature: -30 to 70°C 	
	Forwarding N:1/1:1 VLAN	 Operating Humidity: 5 to 90% RH non-condensing 	
•	Multicast	Dimensions and Weight	
	Up to 256 multicast addresses	• Dimensions: 260 mm (d) x 440 mm (w) x 44mm (h)	
	► IGMP v1, v2, v3	Weight: 6kg	
	Multicast VLAN mapping	Power	
	 Independent VLAN multicast (IVM). 	AC power model: 90 V/AC ~ 240 V/AC 50-60 Hz	
	 Shared VLAN Multicast (SVM) 	$ DC power model: -36 VDC \sim -72 VDC $	
•	Policer	Power Consumption: 70 Watts	
	Broadcast/Unknown rate limit	Cortifications	
	802.1P Priority rate limit		
•	Access Control List		
	Filter on MAC, IP, Ether Type and port		
•	Packet size 64 byte to 1522 byte		
		► 110-1 K.20	

2 Hardware Setup and Startup

2.1 Description of Hardware



2.1.1. Power Outlet

AC: 90 ~ 240VAC, 50/60Hz; 70Watts (Max.)

DC: -36 ~ -72 VDC; 70Watts (Max.)

- 2.1.2. Optical Ethernet Port (UP1 and UP2) SFP Cage
 - Two 1000BASE-X (SX, LX, LHX, ZX) ports
 - Two uplink ports or
 - One port is for uplink and another one for downlink (stacking port)
- 2.1.3. Electrical Ethernet Port (UP1 and UP2) RJ45
 - Two automatic MDI/MDI-X 1000/100/10 BASE T Ports
 - Two uplink ports or
 - One port is for uplink and another one for downlink (stacking port)



Pin	Signal Name
1	Transmit Data plus (TD1+)
2	Receive Data minus (RD1-)
3	Transmit Data plus (TD2+)
4	Transmit Data plus (TD3+)
5	Receive Data minus (RD3-)
6	Receive Data minus (RD2-)
7	Transmit Data plus (TD4+)
8	Receive Data minus (RD4-)

2.1.4. System LED

0			
OPWR	System Sta	itus LEDs	
OSYS	LED	Condition	Status
O AL M	PWR	On Green	Power is properly supplied
OAL	SYS	On Green	System initialization is properly completed
OTST	ALM	On Red	System alarm is active
	TST	On Amber	System test in progress

2.1.5. LINE ports and PSTN ports



Line Port Pin Assignment

PIN #	Usage	PIN#	Usage
1	DSL/PSTN 1-T	26	DSL/PSTN 1-R
2	DSL/PSTN 2-T	27	DSL/PSTN 2-R
3	DSL/PSTN 3-T	28	DSL/PSTN 3-R
4	DSL/PSTN 4-T	29	DSL/PSTN 4-R
5	DSL/PSTN 5-T	30	DSL/PSTN 5-R
6	DSL/PSTN 6-T	31	DSL/PSTN 6-R
7	DSL/PSTN 7-T	32	DSL/PSTN 7-R
8	DSL/PSTN 8-T	33	DSL/PSTN 8-R
9	DSL/PSTN 9-T	34	DSL/PSTN 9-R
10	DSL/PSTN 10-T	35	DSL/PSTN 10-R
11	DSL/PSTN 11-T	36	DSL/PSTN 11-R
12	DSL/PSTN 12-T	37	DSL/PSTN 12-R
13	DSL/PSTN 13-T	38	DSL/PSTN 13-R
14	DSL/PSTN 14-T	39	DSL/PSTN 14-R
15	DSL/PSTN 15-T	40	DSL/PSTN 15-R
16	DSL/PSTN 16-T	41	DSL/PSTN 16-R
17	DSL/PSTN 17-T	42	DSL/PSTN 17-R
18	DSL/PSTN 18-T	43	DSL/PSTN 18-R
19	DSL/PSTN 19-T	44	DSL/PSTN 19-R
20	DSL/PSTN 20-T	45	DSL/PSTN 20-R
21	DSL/PSTN 21-T	46	DSL/PSTN 21-R
22	DSL/PSTN 22-T	47	DSL/PSTN 22-R
23	DSL/PSTN 23-T	48	DSL/PSTN 23-R
24	DSL/PSTN 24-T	49	DSL/PSTN 24-R
25	NOT USED	50	NOT USED

2.2 Accessory Parts check

Check the following items in your package. Contact our sales representatives if any item is missing or damaged. IPA-48S x 1 RJ-45 cable x 1 RS232 cable x 1 Power Cable x 1 Mounting hardware pkg x 1

3 EmWeb Setup and Startup

1. To access EmWeb on the IPA-48S, one has to connect uplink port and enter URL below at web browser.

Uplink #1 (UP1): <u>http://192.168.100.111</u> Uplink #2 (UP2): <u>http://192.168.1.111</u>

2. If you first time login the EmWeb, the default User name/Password as follows User Name: admin Password: admin

3. Click on K. You are now ready to configure IPA-48S IP DSLAM using EmWeb.

USERNAME:	
PASSWORD:	
	(*
	Login

EmWeb provides a series of web pages that you can use to setup and configure the IPA-48S IP DSLAM. These pages are organized into four main topics. You can select each of the following topics from the menu on the left-hand side of the main window:

- System: The System section lets you carry out system commands like Firmware Update, System Reboot, Save Config, and Recall Config.
- Configuration: information about the current configuration of various system features with options to change the configuration.
- Advanced: information about the current configuration of various system features with options to change the configuration.
- Status: Information about the current setup and status of the system.
- Maintenance: show the statistics of the interface.

The changes made via web pages will immediately reflect in all elements of the network.

The exact information displayed on each web page depends on the specific configuration that you are using. The following sections give you a general overview of the setup and configuration details.

3.1 System

Click on System menu, the following options appear: System

System Information System Reboot Save Config Backup&Restore Config Firmware Update Management Users System Log Image List/Selection

The System menu contains options including, System Information, System Reboot, Save Config, Backup&Restore Config., Firmware Update, Management Users, System Log and Image List/Selection. They will be introduced in the following sections.

3.1.1 System Information

This page simply shows the basic information of the device. User will be able to enter the desired information for the device and click on "Apply" to save the settings.

System Info	
Description:	ADSL2+ IPDSLAM
Name:	
Location:	
Contact:	
Log Threshold:	0
Object-ID: Up Time(HH:MM:SS): S/W Version:	1.3.6.1.4.1.30544 0:17:2 1.1.401.5 [API:GS_CMX_445 FW:3.24_138] Default Config
DP Version:	WDDI 3.4
System Time: (mon dd hh:mm:ss year)	Sat Jan 01 00 : 17 : 01 2000 Set SNTP
Time Zone:	GMT-0000 GMT •
DST:	off -

Apply

Field	Description
Description:	Description of the device
Name:	Name of the device. User can give a name for easy mgt.
Location:	Location of the device
Contact:	Contact personnel or information
Log Threshold:	Number of log events

Object-ID:	ID of the object
Up Time:	Time elapses after the devices switched on.
S/W Version:	Software version information
System Time:	Time of the device
Time Zone:	Setting the time to the desired time zone
DST:	Daylight Saving Time

3.1.2 System Reboot

Click System Reboot under the System Menu to display the page below. User will be able to decide which configurations to reboot from based on the dropdown list.

System Reboot	
System will come up from:	Last configuration 🗸 🗸
Are you sure you want to reboot dslam? NOTE: Connection will be lost.	Reboot

Upon click the "Reboot" button, a warning window will be popped up confirming the action.

Microsoft Internet Explorer 🛛 🔀		
2 Do you :	really want to reboot	
Yes	Cancel	

When "Yes" button has been pressed, It will take the system about 30 seconds to reboot.

3.1.3 Save Config

To store current configuration at non-volatile Flash memory:

1. From the System menu, click on *Save config*. The following page is displayed: Save Config



2. Click on "Commit" to save your current configuration in the device.

After a short time the configuration is saved and the following confirmation message window is displayed.



3.1.4 Backup&Restore Config

In the *Backup&Restore Config* page as shown below, user will be able to restore or backup the configuration.

Backup/Restore Config Setting

Backup/Restore Config	
Restore configuration from a previously saved file.	Browse
	Restore
Press the button below to Backup the Last config.	Backup

Click on the "Browse" button to choose the configuration file desired and click "Restore" to apply the changes.

As for saving the current configuration settings, simply click on the "Backup" button to save the configurations.

3.1.5 Firmware Update

This option allows firmware images to be uploaded to the IPA-48S using HTTP. 1. From the System menu, click *Firmware update*. The following page will be displayed:

Firmware Update

From this page you may update the system software on your network device

Select Update File	<u>e</u>
New Firmware Image	Browse
Update >	
2. Enter the location of the new	firmware image that is to be uploaded, or use the Browse butto
o browse and select the file. C	lick Update >

3. The image file is uploaded to the RAM first and then moved to the flash non-volatile memory. A status page will be displayed confirming whether the upload is complete or indicating how many of the file (in bytes and as a percentage) has been written to the flash memory.

Image is write to flash, please wait a minute.....

4. Once the file has been written to flash, the Firmware Update page is refreshed. The page confirms completion of the update and requests that the IPA-48S be restarted in order to run the new image file. Click Restart in the system menu.

Note: Please do not power-off the device while updating firmware or saving the configuration as this

might cause the device to malfunction.

5. After updating the firmware, it is strongly suggested that the device is restarted and the default configuration is recalled as this will prevent any incompatible configuration between the former and the current firmware versions. To do this, check the *Reset to factory default settings* box on the *Restart* page in the system menu.

3.1.6 Management Users

This page allows the user to delete, modify and create user accounts for managing the IPA-48S. Click "Management Users" under System menu to display the following pages.

ac	count list		
	User Name	Login Password	Privilege Level
\bigcirc	"admin"	"admin"	Root
	Delete	Modify	Create

To delete an account

Simply select the specific account and click the "Delete" button to delete. **Notice:** Delect default user is not allowed.

To modify an account

Select the specific account and click the "Modify" button to display the modification page. Edit the desired field and click "Apply" to save the settings.

Setting login account				
User Name			"admin"	
Login Password			admin	
Privilege Level			Root	
	Back	Undo	Apply	

To create an account

Click the "Create" button to display the creation page. Enter the desired data into the specified fields and click "Apply" to create the account.

Setting login account				
User Name				
Login Password				
Privilege Level			Root	*
	Back	Undo	Apply	

3.1.7 System Log

1. System Log Config

This page allows the user to create or delete syslog send server. Click "Syslog Sender Config" under System Log of the System menu to display the following image.

System Log Config		
Syslog Sender Enable :	False 🗸	
Collector List		
IP Address		
	Delete	Create

Use the dropdown box next to enable or disable the sender.

Note: In order to make Syslog Sender Enable to be effective, user need to set the Log Threshold under the System Info to be a non-zero value.

User can also create or delete the Collector List by clicking the "Delete" or "Create" buttons to display the following image.

Create Collector				
IP Address				
	Back	Undo	Apply	

2. Syslog Log

This page lists the entire system event log. User will be able to check the event history under this section. User can click "Reload" to refresh the page for updated events or click "Reset" to clear the past events. To display the following page, simply click Syslog Log of the System Log under the System menu.

System Log		
Date	Туре	Describe
Sat Jan 01 00:02:06 2000	MAJOR ALARM	XDSL XTUC Down : Interface - dsl-1
Sat Jan 01 00:02:40 2000 Reset Reload	STATUS ALARM	XDSL XTUC Up : Interface - dsl-1

3.1.8 Image List/Selection

This page allows the user to display repository image version and to change repository. User can simply to check Select option next to the desired image version and click "Apply" to change the image version. Click on the Image List under System menu to display the following page.

System/Dual Image Selection

This page displays repository image version and for changing repository.

Dual Ima	ge Selection			
Reposito	ry List/Selection			
	Image Version	MD5- CheckSum	Current Repository	Select
Repository#1	ipa-48-1.1.401.5.tgz	N/A	V	۲
Repository#2	ipa-48-1.1.401.5.tgz	N/A		0

3.2 Configuration

Configuration Ethernet Bridge Features DSL VLAN QoS Protocol Based VLAN

3.2.1 Ethernet

This page allows the user to modify the specific Ethernet Interfaces. Click the "Interface Setup" of the Ethernet under Configuration menu to display the page.

Inte	Interface Configuration										
	Interface	Media	MAC address	IP address	Subnet Mask	Gateway	Speed	Duplex	Management Svid	Management CVid	t Flow Control
۲	Mgnt	Copper	00 1C CB 50 2D CD	192.168.200.111	255.255.255.0	192.168.200.254	Auto	Auto	-	-	-
0	Eth1	Auto	00 1C CB 50 2D CB	192.168.100.111	255.255.255.0	192.168.100.254	Auto	Auto	-	-	Disable
0	Eth2	Auto	00 1C CB 50 2D CC	192.168.1.111	255.255.255.0	192.168.1.254	Auto	Auto	-	-	Disable
	Modify										

Simply select the desired Interface and click "Modify" to enter the modification page. Fill in the desired data for the corresponding fields and click "Apply" to save the changes.

Ethernet Interface Setup						
Parameter	Present	Modify				
Interface	Mgnt					
Media	-					
MAC address	00 1C CB 50 2D CD					
IP address	192.168.200.111	192 . 168 . 200 . 111				
Subnet Mask	255.255.255.0	255 . 255 . 255 . 0				
Default Gateway	192.168.200.254	192 . 168 . 200 . 254				
Speed	Auto	Auto 🗸				
Duplex	Auto	Auto 🗸				
Management SVid	-					
Management CVid	-	Back Undo Apply				

3.2.2 Bridge

Bridge Features

- Bridge Configuration
- XVID
- ACL MAC Filter

3.2.2.1 Bridge Configuration

This page allows the user to modify the Bridge information for the each DSL port. Simply select the desired DSL port and click "Modify" to enter the modification page.

C	Display all general port information									
Et	hernet Stag TPID:		0x810	0 🗸						
	Port ID	Admin State	Туре	Accept Frame	Max MACs	Used MACs	Default SVID	Default CVID	Default Priority	Priority Mode
۲	DSL-1	up	User	All	40	0	1	0	0	Untagged
0	DSL-2	up	User	All	40	0	1	0	0	Untagged
0	DSL-3	up	User	All	40	0	1	0	0	Untagged
0	DSL-4	up	User	All	40	0	1	0	0	Untagged
0	DSL-5	up	User	All	40	0	1	0	0	Untagged
0	DSL-6	up	User	All	40	0	1	0	0	Untagged
0	DSL-7	up	User	All	40	0	1	0	0	Untagged
0	DSL-8	up	User	All	40	0	1	0	0	Untagged
0	DSL-9	up	User	All	40	0	1	0	0	Untagged
0	DSL-10	up	User	All	40	0	1	0	0	Untagged
0	DSL-11	up	User	All	40	0	1	0	0	Untagged
0	DSL-12	up	User	All	40	0	1	0	0	Untagged
0	DSL-13	up	User	All	40	0	1	0	0	Untagged
0	DSL-14	up	User	All	40	0	1	0	0	Untagged
0	DSL-15	up	User	All	40	0	1	0	0	Untagged
0	DSL-16	up	User	All	40	0	1	0	0	Untagged
0	DSL-17	up	User	All	40	0	1	0	0	Untagged
0	DSL-18	up	User	All	40	0	1	0	0	Untagged
0	DSL-19	up	User	All	40	0	1	0	0	Untagged
0	DSL-20	up	User	All	40	0	1	0	0	Untagged
0	DSL-21	up	User	All	40	0	1	0	0	Untagged
0	DSL-22	up	User	All	40	0	1	0	0	Untagged
0	DSL-23	up	User	All	40	0	1	0	0	Untagged
0	DSL-24	up	User	All	40	0	1	0	0	Untagged
0	ETH-01	up	Uplink	All	4000	0	1	0	0	Untagged
0	ETH-02	ир	Uplink	All	4000	0	1	0	0	Untagged
										Modify

Once the modification page displayed, enter the desired information to the corresponding fields and click "Modify" to save the settings.

Modify Bridge Setup							
Port ID	DSL-1 💌						
Admin Status:	🔘 Down 💿 Up						
Port Type:	User 🗸						
Accept Frame Type:	● All ○ Tagged ○ Untagged						
Default CVID:	0						
Default SVID:	1						
Default Priority:	0						
Default Priority Mode:	Ontagged ○ All						
Learning Mode:	💿 Enable 🔘 Disable						

Modify

Here need to add more information for above figure.

Field	Description			
Port ID	The bridge port ID. Valid values: 126 (124: DSL, 2526: eth)			
Admin Status	Show the port disable and enable status			
Port Type				
Accept Frame	All: forward tagged/untagged packet by default			
type	Tagged: Forward Tagged packet			
	Untagged: Forward Untagged packet			
Default CVID	Customer VLAN ID, which is used to be the default Customer			
	VLAN ID. Valid values: 14093			
Default SVID	Service VLAN ID, which is used to be the default Service VLAN			
	ID. Valid values: 14093			
Default Priority	Set 802.1p value for the port, valid value: 0-7			
Default Priority	Untagged :mean no 802.1p priority tag traffic			
Mode	All: forward any 802.1p priority tag traffic			
Learning Mode	The state of learning on this bridge port, which is used to learn			
_	VLAN ID. Valid values: disable / enable			

3.2.2.2 XVID

This page displays the list of all CVIDs for any specific ports. You can transfer the CVID to predefined SVID/CVID. Click CVID under the Configuration menu and display the page below.

G	Get a list of all XVID rules of the port					
	Bridge Port ID DSL-1 🔽					
	Ingress CVID	Egress SVID	Egress CVID			
۲	1	1	N/A			
		Delete	Modify			

Click on "Modify" button to display the modification page as below, where user will be able to modify

CVID member list translation rule of any specific ports. Simply use the dropdown list to choose the desired option and click "Apply" to save the settings.

1	11 2	υ
Modify (
Port ID		1
Ingress CV	ID	1
Egress SV	/ID	1 🗸
Egress CV	/ID	N/A 🗸
Back	Undo Apply	

3.2.2.3 ALC MAC Filter

Click on filter Table config and add the VLAN ID and MAC filter mapping table at first.

Create Filter Table

Create Filter	Table
MAC Filter Index ID:	1
VID	1 -
MAC ADDRESS LIST	New 00:00:00:00:00:01
MAC ADDRESS	delete 00 • 00 • 00 • 00 • 01 add

After the VLAN ID and MAC fliter entry setup, and then bind the port ID to filter MAC address related to VALN ID or untagged traffic.

Create	Bridge Setup	
Port ID	DSL-1 -	
MAC Filter ID	1 -	
Filter-	src-deny 🗸	
Type		
	Back Undo	Apply

3.2.3 **DSL Profile Configuration**

DSL

Profile

- Line Profile
- Line Profile Extension
- Line Alarm Profile
- Channel Profile
- Channel Alarm Profile
- Port Setup
- **PVC Management**

3.2.3.1 **Profile**

3.2.3.1.1 Line Profile

This page displays the Line profiles and allows the user to manage the DSL line profiles. Click "Line Profile" under DSL Profile Config of the Configuration menu to display the following page.

Line	e Profile L	ist					
	Profile Name	DS Max SNR Margin(dB)	DS Min SNR Margin(dB)	US Max SNR Margin(dB)	US Min SNR Margin(dB)	DS Target SNR Margin(dB)	US Target SNR Margin(dB)
۲	default	31.0	3.0	31.0	3.0	6.0	6.0



Create xDSL Line Pro	file	
Profile Name		
Transmission Modulation Mode	 ✓ ANSI T.14 ✓ ADSL2+ 	13 🖗 G.DMT 🖗 ADSL2 🖻 ADSL2 AnnexM ADSL2+ AnnexM
Force Impulse Noise Protection	Enable	•
DownStream PM L2 Exit Threshold Data Rate	64000000	(12800064000000 seconds)
Power Management Mode (ADSL)	Forbid_To_ Allow_To_L2_	_L2_and_L3 © Allow_To_L3_only ® _only © Allow_L2_and_L3
L0 Time(ADSL)	255	(01800 seconds)
L2 Time(ADSL)	255	(01800 seconds)
Max Aggregate Tx Power Reduction(ADSL)	10	(031 seconds)
DownStream PM L2 Min Rate(ADSL)	1500000	(10000004300000 bps)
PM L2 Entry Threshold Data Rate(ADSL)	0	(030000000 bps)

PM L2 Entry Rate MinTime (ADSL)	10	(101114 seconds)			
	Down Stre	am	Up Stream	ı	
Rate Mode	AtInit	•	AtInit	•	
Min Noise Margin	30	(0310 dB/10)	30	(0310 dB/10)	
Max Noise Margin	310	(0310 dB/10)	310	(0310 dB/10)	
Target SNR Margin	60	(0310 dB/10)	60	(0310 dB/10)	
Up-Shift Noise Margin	90	(0310 dB/10)	10	(0310 dB/10)	
Down-Shift Noise Margin	30	(0310 dB/10)	10	(0310 dB/10)	
Up-Shift Time Interval	30 seconds)	(016383	3600 seconds)	(016383	
Down-Shift Time Interval	30	(016383	30	(016383	
	seconds)		seconds)		
Bit-Swap	Enable	•	Enable	•	
	Back	ndo Apply	1		

3.2.3.1.2 Line Profile Extension

This page displays current line profile extension information. Click "Line Profile Extension" under DSL of the Configuration menu to display the following page for line profile extention management.

Lin	e profile	Extension	List				
	Profile Name	DownStream Max nominal transmit PSD (dBm/Hz)	UpStream Max nominal transmit PSD (dBm/Hz)	Downstream Min Overhead Rate(bps)	Upstream Min Overhead Rate(bps)	USO Boundary Tone	Band Plan
۲	default	-40.0	-38.0	16000	8000	N/A	BandPlan997
		(Delete	Modify Ci	reate		

xDSL mode	ADSL2PLUS -	
Downstream Max Nominal tx PSD	-400 (-9500 dBm/Hz)	
Upstream Max Nominal Aggregate tx Power	-380 (-9500 dBm/Hz)	
Downstream Max Nominal Aggregate tx Power	198 (0255 <0.1 dBm>)	
Upstream Max Nominal Aggregate tx Power	125 (0255 <0.1 dBm>)	
Upstream Max Aggregate Rx Power	0 (-255255)	
Upstream PSD Mask Select	DMT_STANDARD	
Downstream PSD Mask Select	DMT_PSD_ADSL2_NONOVLPM1	
Upstream Min Overhead Rate	8000 (4000248000 bps)	
Downstream Min Overhead Rate	16000 (4000248000 bps)	
Downstream Trellis Coding	Enable 🔻	
Upstream Trellis Coding	Enable 🔻	
Downstream Max Rx Number of bits per Bin	15 (065535)	
Downstream PSD Mask Feature	psdDisable 🔻	
Upstream PSD Mask Feature	psdDisable 🔻	
Downstream RFI Bands Feature	Disable 🔻	
RFI Windowing Feature	Disable 🔻	
Downstream Max tx PSD on Annex M(ADSL)	AnnexM_EU60 🔻	
US0 Boundary Tone(VDSL)	D-32 🔻	
DPBO Exchange Psd Mask	🖲 Default 🗇 Custom	
DPBO Electrical Loop Length(xDSL)	0 (0511 <0.5 dB>)	
DPBO Scalar A(ADSL)	263 (0640)	
DPBO Scalar B(ADSL)	509 (0640)	
DPBO Scalar C(ADSL)	261 (0640)	
Min Usable Receive Signal PSD(ADSL)	190 (0255)	
DPBO Span Min Frequency(ADSL)	32 (02048 <4.3125 kHZ>)	
DPBO Span Max Frequency(ADSL)	511 (326956 <4.3125 kHZ>)	

3.2.3.1.3 Line Alarm Profile

This page displays all profile information and allows the user to manage DSL line alarm profiles.

Line Alarm	Profile List					
	Profile Name	XTU-C Thresh Rate Up	XTU-R Thresh Rate Up	XTU-C Thresh Rate Down	XTU-R Thresh Rate Down	XTU-C/R CountersReset
e.	default	1	1	1	1	0
			Delete Modify	Create		

PM State Trap	Disable 🔹	•
Xtuc Rate Up Change Threshold	1	(01 bps)
Xtur Rate Up Change Threshold	1	(01 bps)
Xtuc Rate Down Threshold	1	(01 bps)
Xtur Rate Down Threshold	1	(01 bps)
Xtuc Current 15Min Fecs Threshold	0	(04294967295 seconds)
Xtur Current 15Min Fecs Threshold	0	(04294967295 seconds)
Xtuc Current 15Min ESs Threshold	0	(04294967295 seconds)
Xtur Current 15Min ESs Threshold	0	(04294967295 seconds)
Xtuc Current 15Min SES Threshold	0	(04294967295 seconds)
Xtur Current 15Min SES Threshold	0	(04294967295 seconds)
Xtuc Current 15Min LOSS Threshold	0	(04294967295 seconds)
Xtur Current 15Min LOSS Threshold	0	(04294967295 seconds)
Xtuc Current 15Min UAS Threshold	0	(04294967295 seconds)
Xtur Current 15Min UAS Threshold	0	(04294967295 seconds)
Xtuc Current 15Min LOFS Threshold	0	(04294967295 seconds)
Xtuc Current 15Min LOFS Threshold	0	(04294967295 seconds)
Xtuc Current 15Min LOLS Threshold	0	(04294967295 seconds)
Xtuc Current 15Min LPRS Threshold	0	(04294967295 seconds)
Xtuc Current 15Min LPRS Threshold	0	(04294967295 seconds)
Xtuc Current 15Min LOSS Threshold	0	(04294967295 seconds)
Xtur Current 15Min LOSS Threshold	0	(04294967295 seconds)
Xtuc Current 15Min LOFS Threshold	0	(04294967295 seconds)
Xtuc Current 15Min LOFS Threshold	0	(04294967295 seconds)
Xtuc Current 15Min LOLS Threshold	0	(04294967295 seconds)
Xtur Current 15Min LOLS Threshold	0	(04294967295 seconds)

3.2.3.1.4 Channel Profile

Click "Channel Profile" under DSL of the Configuration menu to display the following page and allow uer to manage them.

Chan	nel Profile List								
	Profile Name	DownStream Min Data Rate(bps)	UpStream Min Data Rate(bps)	DownStream Max Data Rate(bps)	UpStream Max Data Rate(bps)	DownStream Max Interleave Delay(ms)	UpStream Max Interleave Delay(ms)	DownStream Min INP	UpStream Min INP
e.	default	32000	32000	64000000	3600000	1	1	No Protection	No Protection
				Delete	Modify Create				

Create xDSL Channel Profile		
Profile Name		
Channel Number	0 •	
DownStream Min Net Data Rate	32000	(0100000000 bps)
UpStream Min Net Data Rate	32000	(050000000 bps)
DownStream Max Net Data Rate	6400000	(0100000000 bps)
UpStream Max Net Data Rate	3600000	(050000000 bps)
DownStream Max Interleave Delay	1	(163 ms)
UpStream Max Interleave Delay	1	(163 ms)
DownStream Min INP	NoProtection -	
UpStream Min INP	NoProtection -	
	Back Undo	Apply

3.2.3.1.5 Channel Alarm Profile

This page displays all Channel profiles and allows the user to set the values for the Channel Profile. Click "Channel Alarm Profile" under DSL of the Configuration menu to display the following page. To modify any specific Channel Profile, simply select the corresponding option button and click "Modify" to display. User can also delete any specific Channel Profile by clicking the "Delete" button instead of "Modify"

Cha	Channel Alarm Profile List								
	Profile Name	XTU-C 15Min Corrected Blocks Threshold	XTU-R 15Min Corrected Blocks Threshold	XTU-C 15Min Uncorrected Blocks Threshold	XTU-R 15Min Uncorrected Blocks Threshold	XTU-C 1 Day Corrected Blocks Threshold	XTU-R 1 Day Corrected Blocks Threshold	XTU-C 1 Day Uncorrected Blocks Threshold	XTU-R 1 Day Uncorrected Blocks Threshold
۲	default	0	0	0	0	0	0	0	0



Profile Name		
channelnum	0 🗸	
Xtuc Current 15min Corrected Blocks Threshold	0	(04294967295)
Xtur Current 15min Corrected Blocks Threshold	0	(04294967295)
Xtuc Current 15min Ubcorrected Blocks Threshold	0	(04294967295)
Xtur Current 15min Uncorrected Blocks Threshold	0	(04294967295)
Xtuc Current 1day Corrected Blocks Threshold	0	(04294967295)
Xtur Current 1day Corrected Blocks Threshold	0	(04294967295)
Xtuc Current 1day Uncorrected Blocks Threshold	0	(04294967295)
Xtur Current 1day Uncorrected Blocks Threshold	0	(04294967295)

	Back	Un	ol	Apply	
--	------	----	----	-------	--

3.2.3.2 Port Setup

Port Setup

- Line Interface
- Line Profile
- Line Profile Extension
- Line Alarm Profile
- Channel Profile
- Channel Alarm Profile

3.2.3.2.1 Line Interface

The Line interface page alow user to disable/enable each DSL port.

3.2.3.2.2 Line Profile

This page allows the user to display the profile mapping information as well as letting the user to apply other line profile to specified DSL port. Click "Line Profile" under DSL Port Mapping of the Configuration menu to display the following page. To modify any specific Line Profile, simply select the corresponding option button and click "Apply" to change.

DSL No.	Profile Nar	ne	DS Max SNR Margin(dB)	DS Min SNR Margin(dB)	US Max SNR Margin(dB)	US Min SNR Margin(dB)	DS Target SNR Margin(dB)	US Target SNR Margin(dB)			
DSL-1	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-2	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-3	default	•	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-4	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-5	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-6	default	•	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-7	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-8	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-9	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-10	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-11	default	•	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-12	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-13	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-14	default	•	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-15	default	-	31.0	3.0	31.0	3.0	6.0	6.0			
DSL-16	default	-	31.0	3.0	31.0	3.0	6.0	6.0			

3.2.3.2.3 Line Profile Extension

This page allows the user to display the profile mapping information as well as letting the user to apply other line profile extension to specified DSL port. Click "Line Profile Extension" under DSL of the Configuration menu to display the following page. To modify any specific Profile, simply select the corresponding option button and click "Apply" to change.

Line Profile	Line Profile Extension Mapping Table											
DSL No.	Profile Name	DownStream Max nominal transmit PSD(dBm/Hz)	UpStream Max nominal transmit PSD(dBm/Hz)	Downstream Min Overhead Rate(bps)	Upstream Min Overhead Rate(bps)	USO Boundary Tone	Transport Protocol Specific Transmission Convergence	Band Plan				
DSL-1	default 🔻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-2	default 👻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-3	default 🔻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-4	default 👻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-5	default 🔫	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-6	default 👻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-7	default 🔻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-8	default 👻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-9	default 🔻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-10	default 👻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-11	default 🔻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-12	default 👻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-13	default 🔻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-14	default 👻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				
DSL-15	default 🔻	-40.0	-38.0	16000	8000	N/A	ATM+EFM	BandPlan998				

3.2.3.2.4 Line Alarm Profile

This page allows the user to display the profile mapping information as well as letting the user to apply other alarm profile to specified DSL port. To modify any specific Line Alarm Profile, simply select the corresponding option button and click "Apply" to change.

DSL No.	Profile Name		XTU-C Thresh Rate Up	XTU-R Thresh Rate Up	XTU-C Thresh Rate Down	XTU-R Thresh Rate Down	XTU-C/R CountersReset
DSL-1	default 🔻	•	1	1	1	1	0
DSL-2	default 🗨	•	1	1	1	1	0
DSL-3	default 🔻	•	1	1	1	1	0
DSL-4	default 🗣	·	1	1	1	1	0
DSL-5	default 🔻	•	1	1	1	1	0
DSL-6	default 🗣	·	1	1	1	1	0
DSL-7	default 🔻	•	1	1	1	1	0
DSL-8	default 🔻	·	1	1	1	1	0
DSL-9	default 🔹	•	1	1	1	1	0
DSL-10	default 🔹	•	1	1	1	1	0

3.2.3.2.5 Channel Profile

This page allows the user to display the profile mapping information as well as letting the user to apply other channel profile to specified DSL port. Click "Channel Profile" under DSL of the Configuration menu to display the following page. To modify any specific Channel Profile, simply select the corresponding option button and click "Apply" to change.

Channel Profile Mapping Table										
DSL No.	Profile Nam	e	DownStream Min Data Rate(bps)	UpStream Min Data Rate(bps)	DownStream Max Data Rate(bps)	UpStream Max Data Rate(bps)	DownStream Max Interleave Delay(ms)	UpStream Max Interleave Delay(ms)	DownStream Min INP	UpStream Min INP
DSL-1	default	•	32000	32000	64000000	3600000	1	1	No Protection	No Protection
DSL-2	default	•	32000	32000	64000000	3600000	1	1	No Protection	No Protection
DSL-3	default	-	32000	32000	64000000	3600000	1	1	No Protection	No Protection
DSL-4	default	•	32000	32000	64000000	3600000	1	1	No Protection	No Protection
DSL-5	default	-	32000	32000	64000000	3600000	1	1	No Protection	No Protection
DSL-6	default	•	32000	32000	64000000	3600000	1	1	No Protection	No Protection
DSL-7	default	•	32000	32000	64000000	3600000	1	1	No Protection	No Protection

3.2.3.2.6 Channel Alarm Profile

This page allows the user to display the profile mapping information as well as letting the user to apply other channel alarm profile to specified DSL port. Click "Channel Alarm Profile" under DSL of the Configuration menu to display the following page. To modify any specific Channel Profile, simply select the corresponding option button and click "Apply" to change.

501000		1100	ontaing op	non outton	und enter	ippij to	onunge.			
DSL No.	Profile Name	e	XTU-C 15Min Corrected Blocks Threshold	XTU-R 15Min Corrected Blocks Threshold	XTU-C 15Min Uncorrected Blocks Threshold	XTU-R 15Min Uncorrected Blocks Threshold	XTU-C 1 Day Corrected Blocks Threshold	XTU-R 1 Day Corrected Blocks Threshold	XTU-C 1 Day Uncorrected Blocks Threshold	XTU-R 1 Day Uncorrected Blocks Threshold
DSL-1	default	-	0	0	0	0	0	0	0	0
DSL-2	default	•	0	0	0	0	0	0	0	0
DSL-3	default	-	0	0	0	0	0	0	0	0
DSL-4	default	•	0	0	0	0	0	0	0	0
DSL-5	default	-	0	0	0	0	0	0	0	0
DSL-6	default	•	0	0	0	0	0	0	0	0
DSL-7	default	-	0	0	0	0	0	0	0	0

3.2.3.3 PVC Management

The VC management interface provides the modification of the virtual channel and encapsulation type.

PVC Management				
Bridge Port	VC Name	VPI	VCI	Encapsulation Type
C DSL-1	PVC_1 👻	1	32	llc
CSL-2	PVC_1 👻	1	32	llc
C DSL-3	PVC_1 💌	1	32	llc
C DSL-4	PVC_1 👻	1	32	llc
C DSL-5	PVC_1 💌	1	32	llc
C DSL-6	PVC_1 👻	1	32	llc
C DSL-7	PVC_1 👻	1	32	llc
C DSL-8	PVC_1 👻	1	32	llc
C DSL-9	PVC_1 💌	1	32	llc
© DSL-10	PVC_1 👻	1	32	llc
C DSL-11	PVC_1 💌	1	32	llc
© DSL-12	PVC_1 👻	1	32	llc
© DSL-13	PVC_1 💌	1	32	llc
@ DSL-14	PVC_1 -	1	32	llc

Modify:

Modify PVC Management		
Bridge ID	DSL-1	
VC name	VC-1-U	
VPI	0	(0 ~ 255)
VCI(VCI 3 and 4 is reserved value)	88	
Encapsulation Type	llc	~

Back	Undo	Apply

3.2.4 VLAN

• VLAN Setup

VLAN Setup
 VLAN Attachment

• VLAN Attachment

3.2.4.1 VLAN Setup

This page allows the user to create, modify and delete the information of the VLANs. Click VLAN Setup of VLAN under the Configuration menu to display the page below.

D	ispla	y all bi	ridge VLAN	v manager info				
	VID	Mode	Flood Enable	Unknown MAC CIR(bps)	Unknown MAC LBS(ms)	Broadcast CIR(bps)	Broadcast LBS(ms)	Port Isolation
۲	1	1-n	Enable	1000000	500	1000000	500	Enable



To create or modify the any specific VLAN, simply click on the "Create" button or select on the desired VLAN and click on the "Modify" button to display the creation or modification page. Then, enter the desired information to the corresponding fields and click "Apply" to save the changes.

Create VLAN	
VID	(1 ~ 4093)
Mode	1-n 🗸
Unknown CIR(bps)(100~ 1073741824(1Gbps))	100000
Unknown LBS(bps)(100~ 1073741824(16bps))	500
Broadcast CIR(bps)(100~ 1073741824(1Gbps))	1000000
Broadcast LBS(bps)(100~ 1073741824(1Gbps))	500
Isolation	Enable 🗸
	Back Undo Apply

3.2.4.2 VLAN Attachment

This page allows the user to attach any specific VLAN ID to the bridge port. Click VLAN Attachment of VLAN under the Configuration menu to display the page below. To modify any specific PVC, simply select the desired VLAN ID and click on the "Modify" button to display the modification page. Choose the desired option from the dropdown list and check the desired checkbox, and then click on the "Apply" to save the settings.

VID Port Members Image: Marking State of the s	VLA	N's por	member list
IDSL-01[VC1-U],DSL-02[VC1-U],DSL-03[VC1-U],DSL-04[VC1-U],DSL-05[VC1-U],DSL-06[VC1-U],DSL-07 [VC1-U],DSL-08[VC1-U], DSL-09[VC1-U],DSL-10[VC1-U],DSL-11[VC1-U],DSL-12[VC1-U],DSL-13[VC1-U],DSL-14[VC1-U],DSL-15 [VC1-U],DSL-16[VC1-U],DSL-19[VC1-U],DSL-20[VC1-U],DSL-21[VC1-U],DSL-22[VC1-U],DSL-23 [VC1-U],DSL-24[VC1-U], DSL-25[VC1-U],DSL-26[VC1-U],DSL-27[VC1-U],DSL-28[VC1-U],DSL-29[VC1-U],DSL-30[VC1-U],DSL-31 [VC1-U],DSL-32[VC1-U], DSL-33[VC1-U],DSL-34[VC1-U],DSL-35[VC1-U],DSL-36[VC1-U],DSL-38[VC1-U],DSL-39 [VC1-U],DSL-40[VC1-U], DSL-41[VC1-U],DSL-42[VC1-U],DSL-43[VC1-U],DSL-44[VC1-U],DSL-45[VC1-U],DSL-46[VC1-U],DSL-47 [VC1-U],DSL-48[VC1-U], ETH-01[VC1-U],ETH-02[VC1-U],		VID	Port Members
	¥	1	DSL-01[VC1-U],DSL-02[VC1-U],DSL-03[VC1-U],DSL-04[VC1-U],DSL-05[VC1-U],DSL-06[VC1-U],DSL-07 [VC1-U],DSL-08[VC1-U], DSL-09[VC1-U],DSL-10[VC1-U],DSL-11[VC1-U],DSL-12[VC1-U],DSL-13[VC1-U],DSL-14[VC1-U],DSL-15 [VC1-U],DSL-16[VC1-U],DSL-19[VC1-U],DSL-20[VC1-U],DSL-21[VC1-U],DSL-22[VC1-U],DSL-23 [VC1-U],DSL-24[VC1-U], DSL-25[VC1-U],DSL-26[VC1-U],DSL-27[VC1-U],DSL-28[VC1-U],DSL-29[VC1-U],DSL-30[VC1-U],DSL-31 [VC1-U],DSL-32[VC1-U], DSL-33[VC1-U],DSL-34[VC1-U],DSL-35[VC1-U],DSL-36[VC1-U],DSL-37[VC1-U],DSL-38[VC1-U],DSL-39 [VC1-U],DSL-40[VC1-U], DSL-41[VC1-U],DSL-42[VC1-U],DSL-43[VC1-U],DSL-44[VC1-U],DSL-45[VC1-U],DSL-46[VC1-U],DSL-47 [VC1-U],DSL-48[VC1-U], ETH-01[VC1-U],ETH-02[VC1-U],

Page:	1
Modif	У

VI AN Flood Mode		Enable	
Attached Bridge Port:	Attached PVC	Egress	Untagged
		Attach All	Untag All
DSL-1	PVC_1 V	¥	
DSL-2	PVC_1 -	¥	12
DSL-3	PVC_1 V	v	
DSL-4	PVC_1 -	v	2
DSL-5	PVC_1 V	v	
DSL-6	PVC_1 -	v	2
DSL-7	PVC_1 V	v	
DSL-8	PVC_1 -	v	2
DSL-9	PVC_1 🔻	v	
DSL-10	PVC_1 -	v	2
DSL-11	PVC_1 V	I	

3.2.5 QoS

QoS

- Ingress
- Egress

3.2.5.1 Ingress

• Ingress • Policer Setup • Policer Setup

- Setup
- Attachment

3.2.5.1.1 Setup

Get a	list of all ingre	ss queue objects				
ID	CIR(bps)	SLBS(msec)	EIR(bps)	DLBS(msec)	COS Rule-1	COS Rule-2
			Delete	Modify Create		

Create:

Create Ingress Queue Setup	
Ingress ID	1
Ingress Type	SLBS 🗸
CIR (bps)	100
SLBS(msec)	100
COS Rule-1	0 🗸
COS Rule-2	0 🗸
	Back Undo Create

3.2.5.1.2 Attachment

Ingres	s Priority Attac	hment List				
Brid	ge Port ID DSL-1 💌					
ID	CIR(bps)	SLBS(msec)	EIR(bps)	DLBS(msec)	COS Rule-1	COS Rule-2
		Detach	Attach			
		Attach				

Create P	olicer								
Bridge Port	ID							D	SL-1 🔽
Policer ID								1	*
									_
						Back	Undo	Create	
3.2.5.2 Eare	ess								
	Egress								
	 Cont 	ract Setu	р						
	 Sche 	duler Set	up						
_	• PQB	ock Setu	р						
3.2.5.2.1 Con	tract S	etup							
Traffic Contract	List TC Type	CIR(bps)		CBS(msec)	EIR(bps)	EBS(mse	c) We	iaht	Weight France
 Default 	WFQ	N/A		N/A	N/A	N/A	1		0
	Members:								
		~		Delete	Modify Cre	ate			
		Create	:						
Egress Sc	hedule	er Setup							
TC ID							1		
ТСТуре							WFQ	*	
Weight							0		
Weight Fracti	on						0		
							Deale	Linda	Create
							Васк	Undo	Create
-									
3.2.5.2.2 Sc	hedule	r Setup							
Scheduler Profile	List Priority	Priority	IC ID	CIE	R/PCR	EIR	R/VBR		WFO
ID Name	Mode	Queue ID		CIR/PCR(bps)	CBS(msec)	EIR/SCR(bps)	EBS/MBS(msec)	Weight	Weight
)elete			Create				, rance
		Create			Ureate				
Scheduler	Profile	Setun	•						
Chroudior	Sc	heduler ID				1			

Priority Mode EFM-CUSTOMER • Traffic Contract id Default •	Profile Name	
Traffic Contract id Default 💌	Priority Mode	EFM-CUSTOMER 🛩
	Traffic Contract id	Default es
		Default 👻
		Back Undo Apply

3.2.5.2.3 PQBlock Setup Create a Priority Queue(PQ) Block Bridge Port : DSL-1 V Create Create: Create: Create PQ Block Bridge port ID Profile Name Priority Mode Channel id ATM-PVC TC id

Back

Undo

3.2.6 Protocol Based VLAN

Protocol Based VLAN

• PBV Setup

PBV Attachment

3.2.6.1 PBV Setup

This page displays all the rules in a PBV group. User will be able to create, modify and delete the PBV groups as well as their rules. Click PBV Setup of Protocol Based VLAN under the Configuration menu to display the page below.

PBV I	D: 2 🔽 Create	PBV Group ID Dele	te PBV Group ID]	
PBV	Rule List				
	Rule ID	EtherType	SVID		
0	1	0×800	1		
0	2	0x806	1		
			Delete	Modify	Create

First, click "Create PBV Group ID" then it will increase the PBV ID value automatic.

Then, use the dropdown list to select which PBV ID to modify. Next, click the "Create" or "Modify" button to edit the rule for that specific PBV ID as the page below. Finally, select the desired option and click "Apply" to make the changes.

PBV ID	3
EtherType	Ox0800
VID	1

	Description
Field	
PBV ID	PBV Group Index. Valid values: 1-15
EtherType	Ethernet type protocol ID. Valid values: IPv4 0x0800 ARP 0x0806
	802.1Q 0x8100 IPv6 0x86dd 802.1X 0x888e 802.1ad 0x88a8
	OAM 0x8902 Q-in-Q 0x9100 LLT 0xcafe
VID	VLAN ID. Valid values: 1-4093

3.2.6.2 PBV Attachment

Bridge Port : DSL-1 🔽				
Bridge Attachmen	t PBV List			
PBV ID	Rule ID	EtherType	VID	
			Deatch	Attach

This page allows the user to attach certain PBV to any specific bridge ports. Simply select which bridge port to modify first by choosing the option in the dropdown list. Then, click "Attach" button to display the attaching page as below. Again, simply use the dropdown list to select the desired PBV ID to attach and click "Apply" to save the settings.



3.3 Advanced

3.3.1 Protocol Enable

Protocol Enable

- Protocol Setup
- Protocol Attachment

3.3.1.1 Protocol Enable Setup

This page allows the user to get a list of all DFC accelerator filter groups as well as enable different protocols. Click Protocol Enable Setup of Protocol Enable under the Advanced menu to display the page below.

ID	Number of links	Reserved multicast filter	PPPoE Discovery filter	IGMP filter
1	26	On 💌	Off 💌	On 👻

First, click "Create" button to display the creation page for creating DFC filters group including reserved multicast Mac, PPPoE, ARP, IGMP and DHCP packet as below. Simply use the dropdown list to select the desired options to enable and click "Apply" to create the Filter Group.

Create a DFC accelerator filters g	jroup		
ID			2 🗸
Reserved multicast filter			On 🔽
PPPoE Discovery filter			On 🔽
IGMP filter			On 💌
DHCP filter			On 🛩
	Back	Undo	Apply

3.3.2 Protocol Attachment

Then, attach any specific group ID by clicking on the Protocol Attachment page.

A	Advanced/Protocol Enable Attachment					
Us	Use this page to attach bridge port to specific DFC accelerator filters group					
At	Attach bridge port to DFC accelerator filters group					
	Protocol ID	Port Members				
ġ.	1	DSL-01,DSL-02,DSL-03,DSL-04,DSL-05,DSL-06,DSL-07,DSL-08,DSL-09,DSL-10,DSL-11,DSL-12,DSL-13,DSL- 14,DSL-15, DSL-16,DSL-17,DSL-18,DSL-19,DSL-20,DSL-21,DSL-22,DSL-23,DSL-24,DSL-25,DSL-26,DSL-27,DSL-28,DSL- 29,DSL-30,DSL-31,DSL-32,DSL-33,DSL-34,DSL-35,DSL-36,DSL-37,DSL-38,DSL-39,DSL-40,DSL-41,DSL-42,DSL- 43,DSL-44,DSL-45,DSL-46,DSL-47,DSL-48,ETH-01,ETH-02,				
		Modify				

Simply check the desired option from the checkbox and click "Apply" to save the settings.

Attach bridge port to DFC	accelerator filters group	
Protocol ID: Attached Bridge Port:	1 Attach	
DSI-1	Attach All	
DSL-2		
DSI-3		
DSI-4		
DSL-5		
DSL-6		
DSL-7		
DSL-8		
DSL-9		
DSL-10		
DSL-11		
DSL-12		
DSL-13		
DSL-14		
DSL-15		
DSL-16		
DSL-17		
DSL-18		
DSL-19		
DSL-20		
DSL-21		
DSL-22		
DSL-23		
DSL-24		
ETH-01		
ETH-02		
		Back Undo Apply
3.3.3 SNMP		
CNMD		
SNMP HOST Setup SNMP TrapHost Setup	D	
3.3.3.1 SNMP HOST Setup		
SNMP HOST List		
Host Address	Community	Access

Delete Create

This page allows the user to create the SNMP HOST List. Click SNMP HOST Setup of SNMP under the Advanced menu to display the page below.

	Host Address	Community	Access
)	192.168.022.002	Test2	RW
)	192.168.011.001	Test1	RO

To add a new Host Address, simply click the "Create" button to enter the creation page as below. Enter the desired value into the corresponding fields and click "Apply" to save the settings.

IP HOST Cre	ate			
Host Address				
Community				
Access	RO 🔽			
		Back	Undo	App

3.3.3.2 SNMP TrapHost Setup

This page allows the user to create the SNMP TrapHost List. Click SNMP TrapHost Setup of SNMP under the Advanced menu to display the page below.

S	NMP TrapHost Lis	t		
	TrapHost Address	UDP Port	Community	Version
۲	192.168.44.4	162	Testing2	V1
0	192.168.33.3	162	Testing1	V1
				Delete Create

To add a new TrapHost Address, simply click the "Create" button to enter the creation page as below. Enter the desired value into the corresponding fields and click "Apply" to save the settings.

Host Address			
HOSC AUDIESS			
UDP Port	162		
Community			
Access	V1 🗸		

3.3.4 IGMP

IGMP • IGMP ACL Setup • IGMP Group List • IGMP Information

3.3.4.1 IGMP ACL Setup

This page allows the user to create the IGMP ACL List. Click IGMP ACL Setup of IGMP under the Advanced menu to display the page below.

IGMP ACL Setup				
ACL Mode	OFF 🛩			
VLAN Transation Mode	OFF 🗸	Apply		
Index	Group IP	Vlan ID	Bridge Port	Provider VLAN ID
1	225.111.111.111	1	2	1
2	224.111.111.111	1	1	1

To add a new IGMP ACL, simply click the "Create" button to enter the creation page as below. Enter the desired value into the corresponding fields and click "Apply" to save the settings.

Delete

Back

Undo

Create

Apply

Create IGMP ACL	
Bridge Port ID	DSL-1 💌
Group IP	
Vlan ID	1
Provider VLAN ID	1

3.3.4.2 IGMP Group List

- IGMP Group List
- Group List
- Group's Sources List

3.3.4.2.1 Group List

This page allows the user to create the IGMP Group List. Click Group List of IGMP Group List under the Advanced menu to display the page below.

Index Group IP	Vlan ID Member	Port	Port Members	Sources	Group
	Add Actio	n Numbers		Numbers 1	Join Type
			_		
			Page: 1		
			Edit		
			Loit		

Group IP		239.1.1.2	
Vian ID		1	
Bridge Port ID		Check to add bridge port member	
bridge Port 10			
DSL-1			
DSL-2			
DSL-3			
DSL-4			
DSL-5			
DSL-6			
DSL-7			
DSL-8			
DSL-9			
DSL-10			
DSL-11			
DSL-12			
DSL-13			
DSL-14			
DSL-15			
DSL-16			
DSL-17			
DSL-18			
DSL-19			
DSL-20			
DSL-21			
DSL-22			
DSL-23			
DSL-24			
			Back
List			
x Group IP	Vlan ID Member	Port Port Members	Sources Group
	Add Action	lumbers	Numbers Join Type
239.1.1.2	1 0		0 Dynamic

To add a new Group member, simply click the "Edit" button to enter the creation page as below. Enter the desired value into the corresponding fields and click "Apply" to save the settings.

3.3.4.2.2 Group's Sources List

This page shows all the group's source list. Click Group Sources List of IGMP Group Setup under the Advanced menu to display the page below.



3.3.4.3.1 General Information

This page shows all the general information of the IGMP. Click General Information in the IGMP Information of IGMP under the Advanced menu to display the page below.

General Information	
Version	3
Proxy Mode	OFF
Fast Leave	ON
Deny no alert	OFF
Robustness variable	2
Newer version log limit	3
Newer version suppress time	300
Default group limit	10
Maximum IGMP ports	200
Maximum IGMP vlans	4094

Modify

Apply

To modify the general information, click the "Modify" button to enter the modification page as below. Simply select the desired option from the dropdown list and click "Apply" to save the settings.

Modify General Information			
Proxy Mode	OFF 🗸		
Fast Leaave	ON 🗸		
Robustness variable (2~10)	2		

3.3.4.3.2 Timer Information

This page shows all the Timer information of the IGMP. Click Timer Information in the IGMP Information of IGMP under the Advanced menu to display the page below.

Timer Information		
Query Interval	125.0	
Older Host Present	400.0	
Maximum response Time	10.0	
Group Membership Interval	260.0	
Last Member Query Interval	1.0	
Unsolicited Report Interval	1.0	

Back

Undo

Modify

To modify the general information, click the "Modify" button to enter the modification page as below. Simply select the desired option from the dropdown list and click "Apply" to save the settings. Modify Timer Information

0	
1.6.5	
0	
	0

3.3.5 DLI Setup

This page allows the user to setup the DLI. Click DLI Setup under the advanced menu to display the page below. Simply select the Subpot mode and Trusted Ports for the desired Bridge Port, then give it the Circuit ID and Remote ID by entering the desired values into the corresponding fields. Finally, click on "Apply" to save the settings.

Dli Setup				
Bridge Dort ID	Subort Mode	Tructed Dorte	Circuit ID	Demote ID
1	None v	NO V		Remote ID
2	None	NO V		
3	None	NO ¥		
4	None	NO ¥		
5	None	NO		
6	None	NO		
7	None	NO		
8	None	NO		
9	None	NO V		
10	None	NO V		
10	None	NO VO		
12	None	NO VO		
12	None	NU V		
13	None	NU V		
14	None	NO 🗸		
15	None	NO 🗸		
16	None	NO ¥		
17	None 🗸	NO ¥		
18	None	NO 🗸		
19	None	NO		
20	None 🗸	NO 🗸		
21	None	NO		
22	None	NO		
23	None	NO 💌		
24	None	NO 🗸		

Apply

3.3.6 SNTP

This page displays the SNTP server IP address and the status. Click the SNTP under the Advanced menu to display the page below.

Get SNTP Server	List			
Server Addr	Status			
SNTP Enable				
False				
		Set TimeZone	Delete Modify	Create

3.3.5.1 TimeZone:

5.5.5.1 THIEZONE.	
System Info	
Description:	VDSL2 IPDSLAM
Name:	
Location:	
Contact:	
Log Threshold:	0
Object-ID:	1.3.6.1.4.1.30544
Up Time(HH:MM:SS):	0:44:51
S/W Version:	1.1.401.53 [API:GS_CMX_447 FW:JGR_4.106] Default Config
DP Version:	WDDI 3.4
System Time: (mon dd hh:mm:ss	Sat Jan 01 00 · 44 · 50 2000 Set SNTP
year)	
Time Zone:	GMT-0000 GMT
DST:	GMT-0000 GMT
	GMT-0000 WET
	GMT+0100 CET
	GMT+0100 FWT
	GMT+0100 MET
	GMT+0100 MEWT
	GMT+0100 SWT
	GM1+0200 EET
	GM1+0200 IS1
	GMT+0300 B1
	GMT+0330 II GMT+0400 7P4
	GMT+0500 ZP5
	GMT+0530 INST
	GMT+0600 ZP6
	GMT+0630 NST
	GMT+0700 WAST
	GM1+0700 SSM1
	GMT+0800 CCT
	GMT+0800 CAST
	GMT+0900 ROK
	GMT+0900 KST
	GMT+0900 JST
	GMT+1000 EAS1
	GMT+1200 IDLE
	GMT+1200 NZST
	GMT+1200 NZT ▼ ● 網際網路 ④

Ge	t SNTP Server	List
	Server Addr	Status
۲	220.130.158.71	Standby
	SNTP Enable	
	True	

To create a new SNTP server, click the "Create" button to enter the creation page as below. Simply enter the desired values into the fields and click "Apply" to save the settings.

Create sntp servaddr				
Server Addr]	
	Back	Undo	Apply	

To enable or disable the SNTP, click the "Modify" button to enter the modification page as below. Simply select the desired option from the dropdown list and click "Apply" to save the settings.

Modify SNTP Config			
SNTP Enable		True	*
	Back	Undo	Apply

3.3.7 STP/RSTP

STP/RSTP • STP/RSTP Info • STP/RSTP Port

3.3.7.1 STP/RSTP Info

This page displays the general information of the STP. Click the STP Info of STP/RSTP under the Advanced menu to display the page below.

Get stp info	
STP Enable	False
Version	RSTP
Local bridge ID	80 00 00 AA BB CC DD E1
Time Since Last Topology Change	1027
Designated Root	80 00 00 AA BB CC DD E1
Root Port ID	N/A
Root path cost	0
Max Aging Time(seconds)	20
Hello Time(seconds)	2
Hold Time(seconds)	3
Forward Delay(seconds)	15
Topology Change Counter	3
	Modify

To modify the STP Info, click the "Modify" button to enter the modification page as below. Simply enter the desired information and click "Apply" to save the settings.

Modify STP Inf	ormation		
STP Enable		Fal	se 🔽
Version		RS	TP 🔽
Bridge Priority(2B	ytes)	327	68
Max Aging Time(s	econds)	20	1
Hello Time(second	is)	2	
Forward Delay(se	conds)	15	
Parameters	Recommended or Default value	Range	Note
Hello Time	2.0	1.0 - 10.0	
Max Aging Time	20.0	6.0 - 40.0	See note 1
Forward Delay	15.0	4.0 - 30.0	

Note 1. Legal range of Max Aging time is 2 * (Hello Time + 1.0 seconds) <= Max Aging time <= 2 * (Forward Delay - 1.0 seconds)

Note 2. Legal value of Bridge Priority must be multiple of 4096(0x1000)

Back	Undo	Apply
------	------	-------

3.3.7.2 STP/RSTP Port

This page displays the general information of the STP. Click the STP Info of STP/RSTP under the Advanced menu to display the page below.

	Port ID	Priority	Role	State	Cost	Designated Root ID	Designated Cost	Designated Bridge ID	Designated Port ID	Counter	Version
0	ETH-1	128	DESIGNATED	FORWARDING	100	80 00 00 AA BB CC DD E1	0	80 00 00 AA BB CC DD E1	0x8061	1	RSTP
۲	ETH-2	128	DESIGNATED	FORWARDING	100	80 00 00 AA BB CC DD E1	0	80 00 00 AA BB CC DD E1	0x8062	1	RSTP
						Modify					

To modify the STP Ports Info, click the "Modify" button to enter the modification page as below. Simply enter the desired information and click "Apply" to save the settings.

Port ID	ETH-2
Priority	128
Cost	100

3.3.8 802.1x

802.1X • Server List • Port List

3.3.8.1 Server List

This page displays the list of existing server information. Click the Server List of 802.1X under the Advanced menu to display the page below.

servi	ice Mode : Disable Ň	*		
	IP Address	Secret	username	password
۲	66.55.44.33	"1"	"1"	"1"
۲	00.55.44.33	1	ste sec ul ex	1

To create a new 802.1X server, click the "Create" button to enter the creation page as below. Simply enter the desired values into the fields and click "Apply" to save the settings.

IP Address		
Secret	1	
username	1	
password	1	

3.3.8.2 Port List

This page displays the list of 802.1X port status. Click the Port List of 802.1X under the Advanced menu to display the page below. To modify the port status, simply select the desired options and click "Apply" to save the settings.

Display the list of	⁶ 802.1x port	statu
Port ID	Mode	
DSL-1	Auto	*
DSL-2	Auto	*
DSL-3	Auto	*
DSL-4	Auto	*
DSL-5	Auto	*
DSL-6	Auto	~
DSL-7	Auto	*
DSL-8	Auto	~
DSL-9	Auto	*
DSL-10	Auto	*
DSL-11	Auto	~
DSL-12	Auto	~
DSL-13	Auto	*
DSL-14	Auto	~
DSL-15	Auto	*
DSL-16	Auto	~
DSL-17	Auto	*
DSL-18	Auto	~
DSL-19	Auto	*
DSL-20	Auto	~
DSL-21	Auto	~
DSL-22	Auto	~
DSL-23	Auto	~
DSL-24	Auto	~
	Apply	

3.4 Status



3.4.1 Ethernet Status

This page allows the user to check the Ethernet Interface Status information. Click Ethernet Status of the Status menu to display the following page. To extract the most current status of the Ethernet Interface, simply click "Refresh" to display the most current status.

Ethernet 1	interface S	Status								
Interface	Media	MAC address	IP address	Subnet Mask	Gateway	Speed	Duplex	OP State	Management Svid	Management CVid
Mgnt	Copper	00 1C CB 50 2D CD	192.168.200.111	255.255.255.0	192.168.200.254	100	full	Up		-
Eth1	-	00 1C CB 50 2D CB	192.168.100.111	255.255.255.0	192.168.100.254	-	-	Down		-
Eth2	-	00 1C CB 50 2D CC	192.168.1.111	255.255.255.0	192.168.1.254	-	-	Down		-
				Я	lefresh					

3.4.2 Bridge

Bridge • Forwarding DataBase

3.4.2.1 Forwarding Database

This page shows the Forwarding Database. Click Forwarding Database of Bridge under Status menu to display the page below. User will be able to present the FDB by sorting. Simply enter the matching criteria into the blank and click "select" to sort.

FDB(Forwarding Data Base)						
Sort by All 💙 matching	Search					
MAC	SVID	CVID	Port	Mode	Action	Туре
00:1C:CB:50:2D:CB	1	N/A	101	static	accept	single vlan
00:1C:CB:50:2D:CC	1	N/A	102	static	accept	single vlan
Page: 1 DSL-1 V Flush All Entries Of The Bridge Port						

3.4.3 DSL Status



This page allows the user to choose and show the DSL line status of any specific DSL ports. Click Line Status in DSL of the Status menu to display the following page. To show the Line Status of particular bridge port, simply select the corresponding option from the dropdown list to display it.

DSL No.	ОР	Admin	DSL Type	SNR Margin(dB)	Attenuation(dB)	Tx PSD(dBm/Hz)	Tx Power(dBm)	Line Rate(Mbps)
1	data	active	ADSL	5.0/ 6.5	1.9/ 1.1	-52.0/-50.0	6.8/ 0.4	24.0/ 1.1
2	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
3	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
1	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
5	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
5	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
7	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
8	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
)	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
LO	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
1	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
12	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
.3	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
14	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
.5	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
16	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
17	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
18	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
19	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
20	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
21	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
22	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
23	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0
24	handshake	active	-	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0	0.0/ 0.0

3.4.3.2 Channel Status

This page allows the user to choose and show the DSL channel status of any specific DSL ports. Click Channel Status in DSL Status of the Status menu to display the following page. To show the Channel Status of particular bridge port, simply select the corresponding option from the dropdown list to display it.

DSL C	DSL Channel Status								
DSL No.	Max Interleave Delay(ms)	Interleaving Depth(D)	Current Data Rate(Mbps)	Previous Data Rate(Mbps)	CRC Block Lenth(bytes)	RS Code Symbol Number	RS Redundancy Bytes		
1	1/1	1/1	23.34/ 1.08	25.28/ 1.21	45600/2448	32/97	0/0		
2	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
3	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
4	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
5	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
6	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
7	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
8	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
9	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
10	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
11	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
12	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
13	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
14	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
15	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
16	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
17	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
18	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
19	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
20	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
21	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
22	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
23	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		
24	0/0	0/0	0.00/ 0.00	0.00/ 0.00	0/0	0/0	0/0		

Refresh

3.5 Maintenance



3.5.1 Ethernet Statistics

This page shows all the Ethernet interface statistics. Click ETH IF Statistics under Maintenance menu to present the page below. Simply select the desired ETH interface name from the dropdown list to display the information.

Ethernet Interface Statisti	CS	
ETH IF NAME Mgnt 💌		
Direction	Received	Transmitted
Packets	2457	1941
Bytes	293661	1359381
Error	0	0
Dropped	0	0
Unicast	-	-
Multicast	0	-
Broadcast	-	-
		Reset Refresh

3.5.2 Bridge Statistics

This page shows all the bridge statistics. Click Bridge Statistics under Maintenance menu to present the page below. Simply select the desired Bridge port ID from the dropdown list to display the information.

Bridge Port S	Bridge Port Statistics							
Bridge Port ID DSL-1								
PASSED(packets)	All	Broadcast	Multicast					
	0	0	0					
DISCARD (packets)	Vlan Acceptable Filter	Ingress Filter	Bridge Classifier	Unknown MAG	C Deny SA	Deny DA	Protocol Error	
	0	0	27	0	0	0	0	
FORWARDED (packets)	ALL	UniCast	Broadcast	Multicast				
	0	0	0	0	Reset Refresh			

3.5.3 DSL Statistics

DSL Statistics

- Current Line Report
- 15 Minutes Line Report
- One Day Line Report

Current Line Report

Current L	Current Line Report									
Network Side,	Network Side/Customer Side									
DSL No.	UAS	LOSS	LOFS	LOLS	LPRS	FECS	ESS	SES	Elapsed Time	Reset All
1	0/0	0/0	0/0	0/0	0/0	0/0	7/59	10/0	5566/5566	
2	5565/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5566/5566	
3	5565/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5566/5566	
4	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
5	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
6	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
7	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
8	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
9	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
10	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
11	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
12	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
13	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
14	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
15	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
16	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
17	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
18	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
19	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
20	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
21	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
22	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
23	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
24	5566/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5567/5567	
										Apply

15 Minutes Line Report

This page displays the DSL PM Statistics Report of every 15 minutes of the current day. Click 15 Minutes Report of DSL PM Statistics under Maintenance menu to display the following page. Simply select the desired Bridge Port ID as well as the Report ID to display particular 15 Minutes Report of the current day.

3.5.4 Inq-Policer Statistics

Inq-Policer Statistics		
Bridge Port ID DSL-1		
Ingress Queue ID	Policer Non Conforming(packets)	First Bucket Non Conforming (packets)

3.5.5 **IGMP Statistics**

IGMP Statistics

- IGMP Member Statistic
- IGMP Port Statistics
- IGMP VLAN Statistics

3.5.5.1 IGMP Member Statistics

This page shows all the IGMP Member Statistics. Click IGMP Member Statistics of IGMP Statistics under Maintenance menu to present the page below. Simply select the desired Bridge Port ID from the dropdown list to display the information.

IGMP Mei	mber Statistics			
Bridge Port I	DSL-1			
Group IP	VLAN ID	Successful Joins	General Queries	Group Queries

3.5.5.2 IGMP Port Statistics

This page shows all the IGMP Port Statistics. Click IGMP Port Statistics of IGMP Statistics under Maintenance menu to present the page below.

IGMP Port Statistic	S		
Bridge ID	Failed Joins	Leaves Rx	Invalid Messages
DSL-1	0	0	0
DSL-2	0	0	0
DSL-3	0	0	0
DSL-4	0	0	0
DSL-5	0	0	0
DSL-6	0	0	0
DSL-7	0	0	0
DSL-8	0	0	0
DSL-9	0	0	0
DSL-10	0	0	0
DSL-11	0	0	0
DSL-12	0	0	0
DSL-13	0	0	0
DSL-14	0	0	0
DSL-15	0	0	0
DSL-16	0	0	0
DSL-17	0	0	0
DSL-18	0	0	0
DSL-19	0	0	0
DSL-20	0	0	0
DSL-21	0	0	0
DSL-22	0	0	0
DSL-23	0	0	0
DSL-24	0	0	0
		Refresh	

3.5.5.3 IGMP VLAN Statistics

This page shows all the IGMP VLAN Statistics. Click VLAN Member Statistics of IGMP Statistics under Maintenance menu to present the page below. Simply select the desired Bridge Port ID from the

dropdown list to display the information.

IGMP VLAN Statistics												
Bridge Port ID DSL-1 v												
VALN ID	Active Groups	Joins to	Successful Joins	Failed Usr Joins	Total Usr Joins	Leaves to NW	Leaves From	Gen Queries	Gen Queries	Grp Queries	Grp Queries	Invalid Messages
1	0	0	0	0	0	0	0	0	0	0	0	0
						Refresh						

3.5.6 **PPP Session Statistics**

This page displays the PPP session statistics.

PPP Session Statist	ics				
PPP session id Port ID		broadband remote access server(BRAS)	VID	Agent Count	Forwarded Packets
		Refresh			

3.5.7 DHCP Relay Statistics

This page displays the DHCP relay statistics. Click DHCP Relay Statistics under Maintenance menu to display the following page.

Get dhcp relay statistics		
Items Name		Forwarded(Packets)
Bogus agent drop		0
Bogus giaddr drop		0
Client packets relayed		0
Server packet errors		0
Server packets relayed		0
Client packet errors		0
Add agent options		0
Drop agent mismatches		0
Corrupt agent options		0
Missing agent option		0
Bad circuit id		0
Missing circuit id		0
Bad remote id		0
Missing remote id		0
	Refresh	