



# **Xenon VDSL2 DSLCLI**

Version 1.2

User's Manual

Rev. 1.7

2010/9/3

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## 1 Introduction

DSLCLI is the command line interface that design for manage VDSL2, including profile setup, port assignment and status reporting. The design fully conformances with RFC5650 including MIB define, profile based and template design. Please check out RFC5650 for detail information.

## 2 Web Login

The CO system's IP: **192.168.0.100**

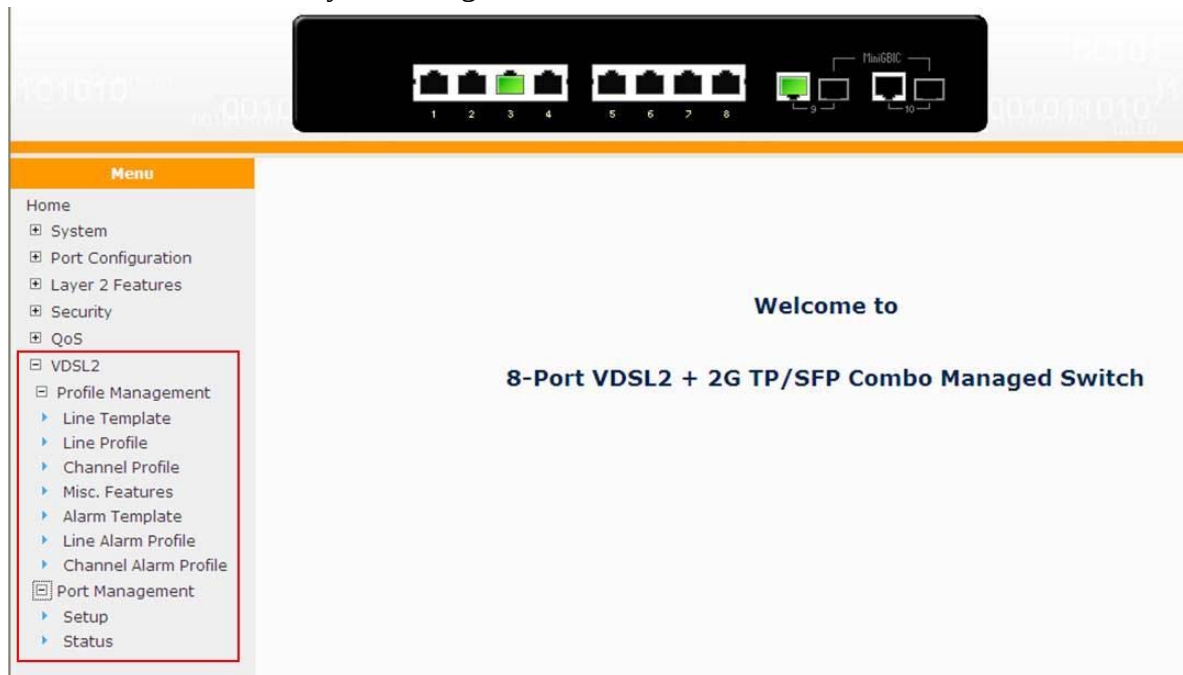
When you connect to the CO through a web browser (recommend to use IE ), one login screen will be displayed. Enter a user name and password to login to access the CO as shown right.

**Username: admin**

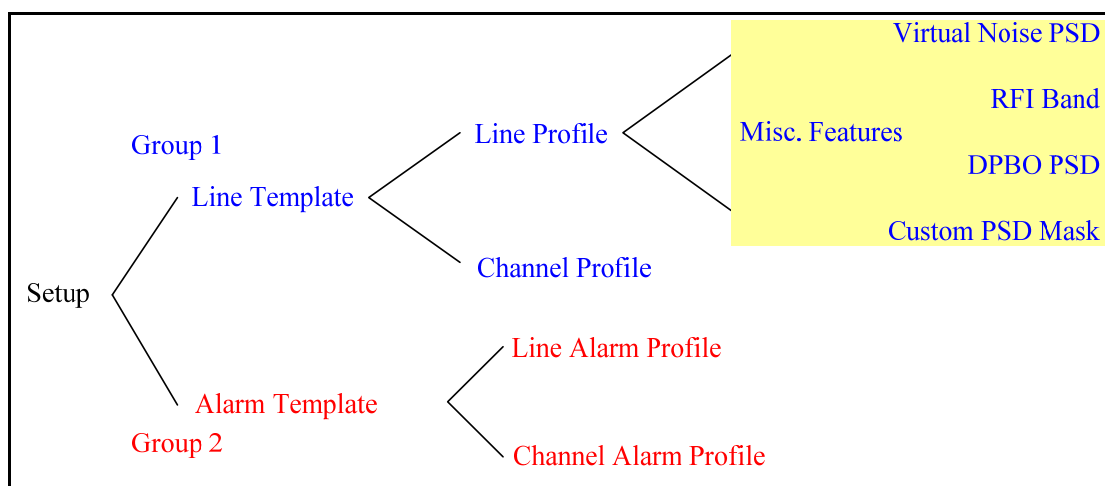
**Password: admin**



After verifying, the homepage of the CO will be shown as below. The main two groups are VDSL2 Setup and Port Management, both of them include several parts that users can select every items to get more information.



## 2.1 VDSL2 Setup Structure

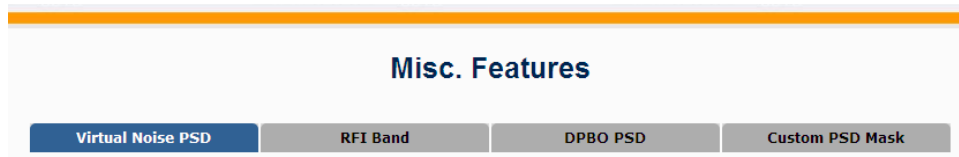


## 2.2 Group 1 Setting

- ◆ Misc. Features→Line Profile→Line Template→Setup
- ◆ Channel Profile→Line Template→Setup

## 2.3 Misc. Features

There are 4 parts as Virtual Noise PSD, RFI Band, DPBO PSD and Custom PSD Mask. All of them will provide users to select more details.



Choose the established data or add a new one. Contrarily, click **“Delete”** to remove the existing Virtual Noise PSD.

### ✓ How to create or delete a profile?

Step by step to create a new one:

Example of user2:

- Input the New Virtual Noise PSD Name (user 2).
- Select every item and click **“Edit and Add”**.
- The data will be saved underneath.

| Downstream  |            |                 |                      | Upstream    |            |                 |                      |
|-------------|------------|-----------------|----------------------|-------------|------------|-----------------|----------------------|
| Break Point | Tone Index | Frequency (kHz) | Noise Level (dBm/Hz) | Break Point | Tone Index | Frequency (kHz) | Noise Level (dBm/Hz) |
| 1           | 1          | 4.3             | -140.0               | 1           | 1          | 4.3             | -140.0               |
| 2           | 31         | 133.7           | -140.0               | 2           | 31         | 133.7           | -140.0               |

|    |   |     |     |  |  |  |  |
|----|---|-----|-----|--|--|--|--|
| 29 | 0 | 0.0 | 0.0 |  |  |  |  |
| 30 | 0 | 0.0 | 0.0 |  |  |  |  |
| 31 | 0 | 0.0 | 0.0 |  |  |  |  |
| 32 | 0 | 0.0 | 0.0 |  |  |  |  |

Edit and Add Edit and Set Delete Clear

**Virtual Noise PSD Name**  
[DEFVAL](#)  
[CROSSTALK](#)  
[VNS\\_WT115](#)  
[user2](#)

### Step by step to delete:

- I. Choose the profile name you want to delete.
- II. Click “Delete” and then the data you choose will disappear.

## 2.4 VDSL2 Line Profile Setup

Choose a Line Profile Name, the result will be shown as below. The items of Virtual Noise PSD, RFI Band, DPBO PSD and Custom PSD Mask are hyperlinks that users can link directly to Misc. Features. The way to create and delete a profile is the same as Virtual Noise PSD Name setting, please take 2.3 as reference.

**Menu**  
[Home](#)  
[System](#)  
[Port Configuration](#)  
[Layer 2 Features](#)  
[Security](#)  
[QoS](#)  
[VDSL2](#)  
[Profile Management](#)  
[Line Template](#)  
[Line Profile](#)  
[Channel Profile](#)  
[Misc. Features](#)  
[Alarm Template](#)  
[Line Alarm Profile](#)  
[Channel Alarm Profile](#)  
[Port Management](#)  
[Setup](#)  
[Status](#)

**UPBO(Upstream Power Back-Off)**  

|        | US0  | US1  | US2  | US3  |
|--------|------|------|------|------|
| Band A | 4000 | 4000 | 4000 | 4000 |
| Band B | 0    | 0    | 0    | 0    |

**DPBO(Downstream Power Back-Off)**  
☐ Enable ☒ Disable  
EsEL: 0 0.5dB FMax: 512 4.1325kHz FMin: 32 4.1325kHz  
Mus: 0 -0.5dB [DPBO PSD](#): DEFVAL  
ESLCA: 0 ESLCB: 0 ESLCC: 0

**SNR Mode** ☐ Enable ☒ Disable [Virtual Noise PSD](#): DEFVAL  
[RFI Band](#): DEFVAL

**Downstream**  
Target SNR: 60 0.1dB  
Max Aggregate Transmit Power: 175 0.1dBm  
Max Transmit PSD: -365 0.1dBm/Hz  
☒ Enable ☐ Disable  
☐ Manual ☒ RaInit ☐ Dynamic  
Up Shift SNR Margin: 70 0.1dB  
Up Shift Time: 3600 seconds  
Down Shift SNR Margin: 50 0.1dB  
Down Shift Time: 3600 seconds

**Upstream**  
Target SNR: 60 0.1dB  
Max Aggregate Transmit Power: 145 0.1dBm  
Max Transmit PSD: -345 0.1dBm/Hz  
☒ Enable ☐ Disable  
☐ Manual ☒ RaInit ☐ Dynamic  
Up Shift SNR Margin: 70 0.1dB  
Up Shift Time: 3600 seconds  
Down Shift SNR Margin: 50 0.1dB  
Down Shift Time: 3600 seconds

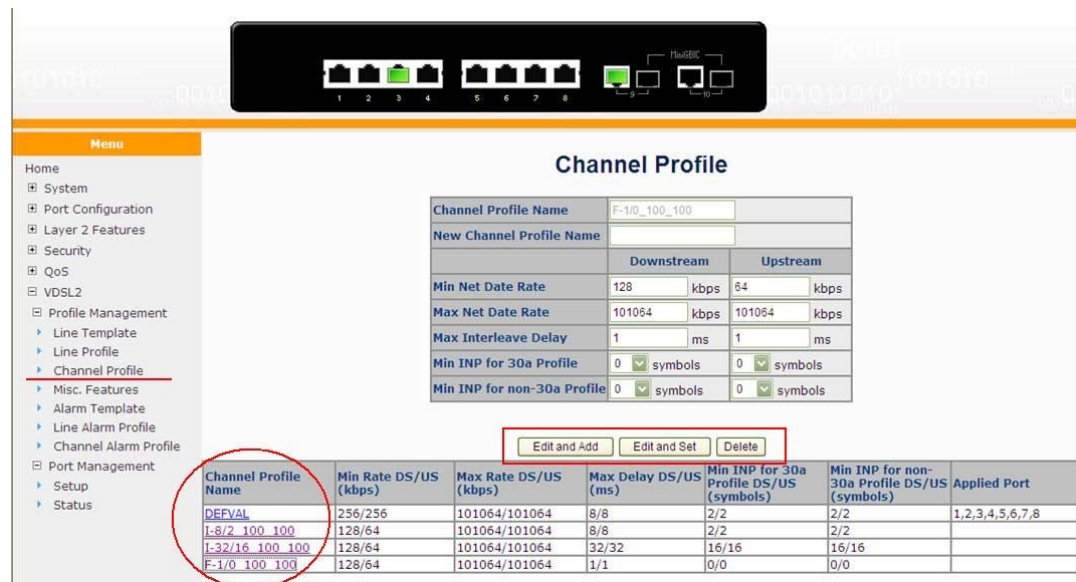
**Rate Adaptation Mode**

Edit and Add Edit and Set Delete

| Line Profile Name       | VDSL2 Profile               | Band Profile        | Target SNR DS/US(0.1dB) | Applied Port  |
|-------------------------|-----------------------------|---------------------|-------------------------|---------------|
| <a href="#">DEFVAL</a>  | 30a,17a,12b,12a,8d,8c,8b,8a | A_R_POTS_D-32_EU-32 | 60/60                   | 1,2,4,5,6,7,8 |
| <a href="#">AA8a_RA</a> | 8a                          | A_R_POTS_D-32_EU-32 | 60/60                   | 3             |
| <a href="#">AA8d_RA</a> | 8d                          | A_R_POTS_D-32_EU-32 | 60/60                   |               |

## 2.5 Channel Profile Setup

Choose a Channel Profile Name then the result will be shown as below. The way to create and delete a profile is the same as Virtual Noise PSD Name setting, please take 2.3 as reference.



**Channel Profile**

Channel Profile Name: F-1/0\_100\_100

New Channel Profile Name:

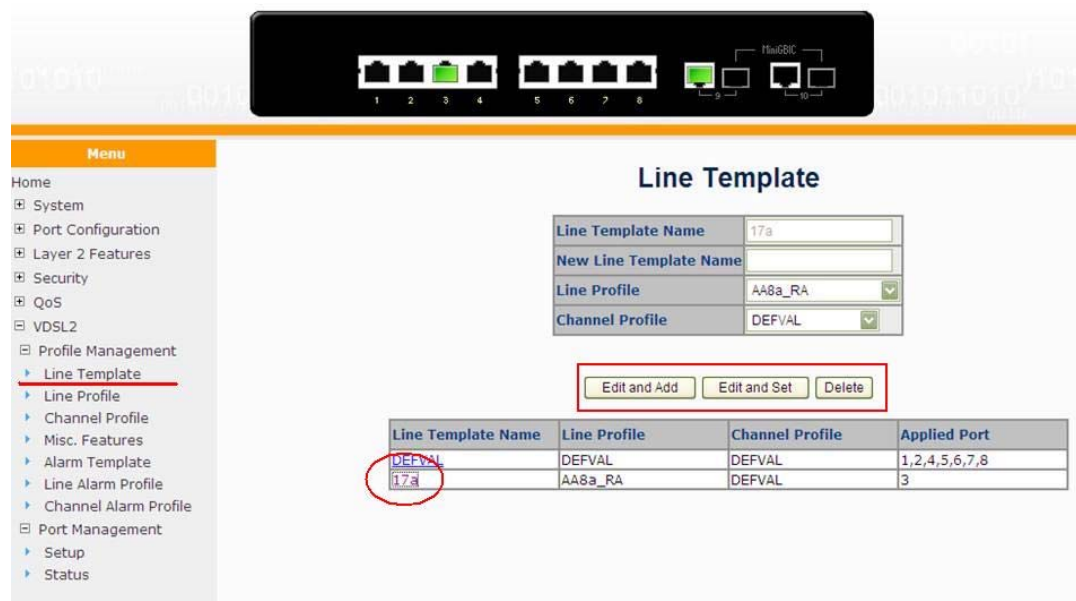
|                             | Downstream  | Upstream    |
|-----------------------------|-------------|-------------|
| Min Net Data Rate           | 128 kbps    | 64 kbps     |
| Max Net Data Rate           | 101064 kbps | 101064 kbps |
| Max Interleave Delay        | 1 ms        | 1 ms        |
| Min INP for 30a Profile     | 0 symbols   | 0 symbols   |
| Min INP for non-30a Profile | 0 symbols   | 0 symbols   |

Edit and Add Edit and Set Delete

| Channel Profile Name | Min Rate DS/US (kbps) | Max Rate DS/US (kbps) | Max Delay DS/US (ms) | Min INP for 30a Profile DS/US (symbols) | Min INP for non-30a Profile DS/US (symbols) | Applied Port    |
|----------------------|-----------------------|-----------------------|----------------------|-----------------------------------------|---------------------------------------------|-----------------|
| DEFVAL               | 256/256               | 101064/101064         | 8/8                  | 2/2                                     | 2/2                                         | 1,2,3,4,5,6,7,8 |
| I-8/2_100_100        | 128/64                | 101064/101064         | 8/8                  | 2/2                                     | 2/2                                         |                 |
| I-32/16_100_100      | 128/64                | 101064/101064         | 32/32                | 16/16                                   | 16/16                                       |                 |
| F-1/0_100_100        | 128/64                | 101064/101064         | 1/1                  | 0/0                                     | 0/0                                         |                 |

## 2.6 Line Template Setup

Choose a Line Template Name then the result will be shown as below. The way to create and delete a profile is the same as Virtual Noise PSD Name setting, please take 2.3 as reference.



**Line Template**

Line Template Name: 17a

New Line Template Name:

Line Profile: AA8a\_RA

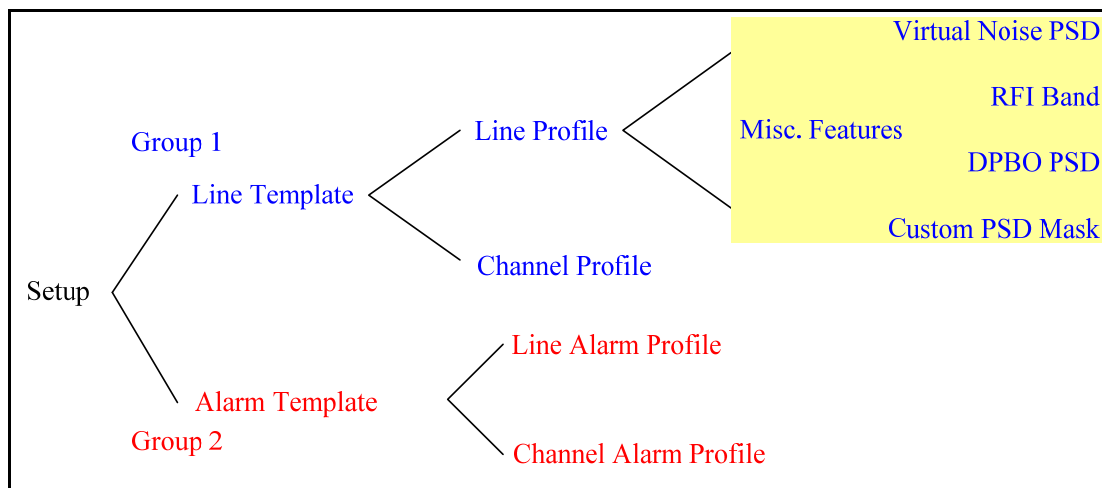
Channel Profile: DEFVAL

Edit and Add Edit and Set Delete

| Line Template Name | Line Profile | Channel Profile | Applied Port  |
|--------------------|--------------|-----------------|---------------|
| DEFVAL             | DEFVAL       | DEFVAL          | 1,2,4,5,6,7,8 |
| 17a                | AA8a_RA      | DEFVAL          | 3             |

## 2.7 Group 2 Setting

- ◆ Line Alarm Profile→Alarm Template→Setup
- ◆ Channel Alarm Profile→Alarm Template→Setup



## 2.8 Line Alarm Profile Setup

Choose a Line Alarm Profile Name then the result will be shown as below. The way to create and delete a profile is the same as Virtual Noise PSD Name setting, please take 2.3 as reference.

**Line Alarm Profile**

Line Alarm Profile Name:

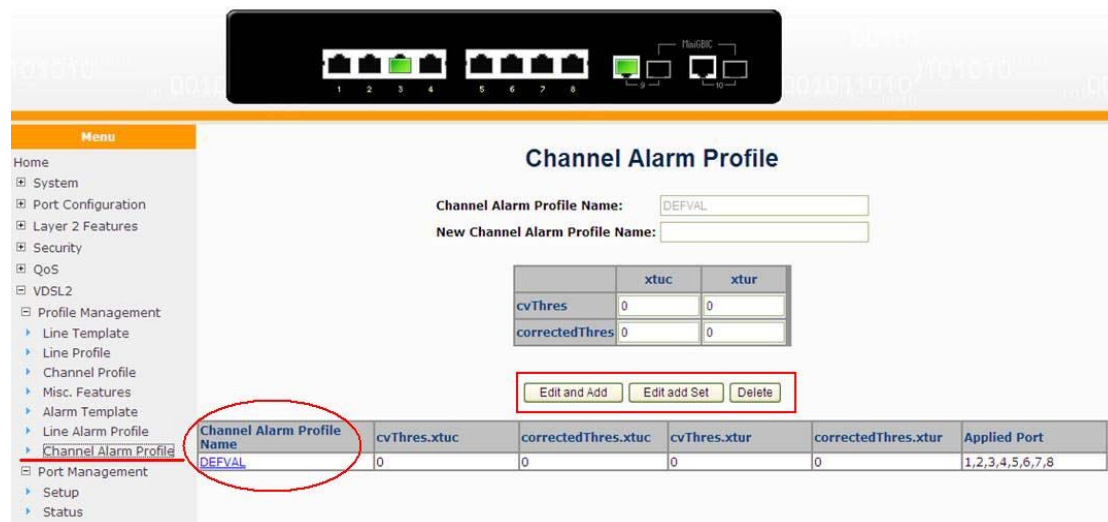
New Line Alarm Profile Name:

|          |   |          |   |
|----------|---|----------|---|
| xtucFecs | 0 | xturFecs | 0 |
| xtucEs   | 0 | xturEs   | 0 |
| xtucSes  | 0 | xturSes  | 0 |
| xtucLoss | 0 | xturLoss | 0 |
| xtucUas  | 0 | xturUas  | 0 |
| FullInt  | 0 | ShrtInt  | 0 |

| Line Alarm Profile Name | xtucFecs | xtucEs | xtucSes | xtucLoss | xtucUas | xturFecs | xturEs | xturSes | xturLoss | xturUas | FullInt | ShrtInt | Applied Port    |
|-------------------------|----------|--------|---------|----------|---------|----------|--------|---------|----------|---------|---------|---------|-----------------|
| DEFVAL                  | 0        | 0      | 0       | 0        | 0       | 0        | 0      | 0       | 0        | 0       | 0       | 0       | 1,2,3,4,5,6,7,8 |

## 2.9 Channel Alarm Profile Setup

Choose a Channel Alarm Profile Name then the result will be shown as below. The way to create and delete a profile is the same as Virtual Noise PSD Name setting, please take 2.3 as reference.



**Channel Alarm Profile**

Channel Alarm Profile Name:

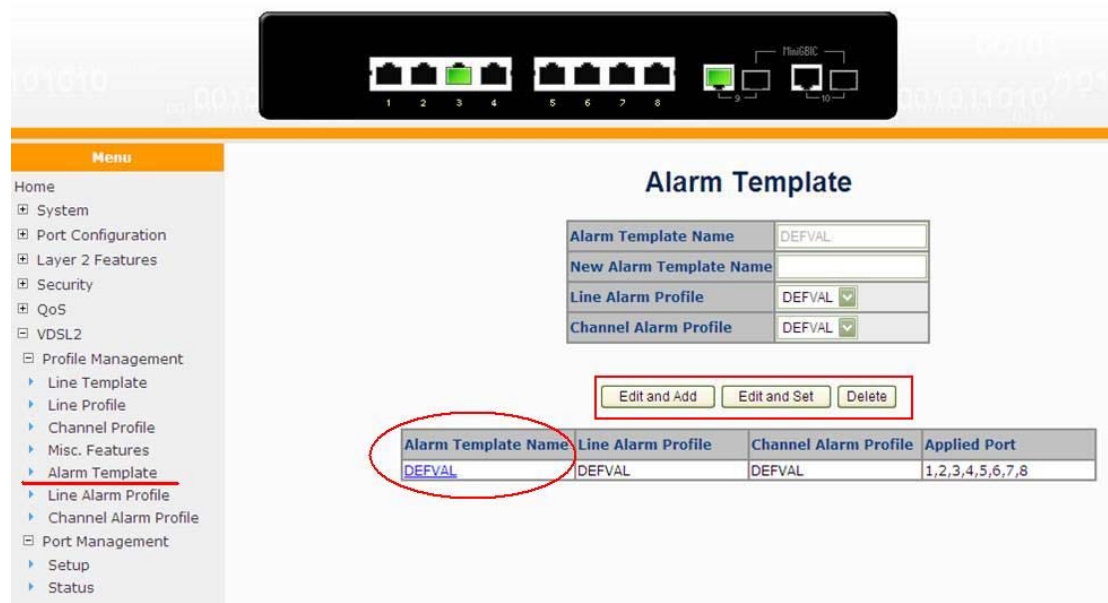
New Channel Alarm Profile Name:

|                | xtuc                           | xtur                           |
|----------------|--------------------------------|--------------------------------|
| cvThres        | <input type="text" value="0"/> | <input type="text" value="0"/> |
| correctedThres | <input type="text" value="0"/> | <input type="text" value="0"/> |

| Channel Alarm Profile Name | cvThres.xtuc | correctedThres.xtuc | cvThres.xtur | correctedThres.xtur | Applied Port    |
|----------------------------|--------------|---------------------|--------------|---------------------|-----------------|
| DEFVAL                     | 0            | 0                   | 0            | 0                   | 1,2,3,4,5,6,7,8 |

## 2.10 Alarm Template Setup

Choose an Alarm Template Name then the result will be shown as below. The way to create and delete a profile is the same as Virtual Noise PSD Name setting, please take 2.3 as reference.



**Alarm Template**

Alarm Template Name:

New Alarm Template Name:

Line Alarm Profile:

Channel Alarm Profile:

| Alarm Template Name | Line Alarm Profile | Channel Alarm Profile | Applied Port    |
|---------------------|--------------------|-----------------------|-----------------|
| DEFVAL              | DEFVAL             | DEFVAL                | 1,2,3,4,5,6,7,8 |

## 2.11 Port Setup

Select port modify and click “set”, the result will be shown up. Each value is according to users’ former setting. (2.3-2.10 )

| Port | Modify                              | Line Template | Alarm Template |
|------|-------------------------------------|---------------|----------------|
| 1    | <input checked="" type="checkbox"/> | DEFVAL        | DEFVAL         |
| 2    | <input checked="" type="checkbox"/> | DEFVAL        | DEFVAL         |
| 3    | <input checked="" type="checkbox"/> | 17a           | DEFVAL         |
| 4    | <input checked="" type="checkbox"/> | DEFVAL        | DEFVAL         |
| 5    | <input checked="" type="checkbox"/> | DEFVAL        | DEFVAL         |
| 6    | <input checked="" type="checkbox"/> | DEFVAL        | DEFVAL         |
| 7    | <input checked="" type="checkbox"/> | DEFVAL        | DEFVAL         |
| 8    | <input checked="" type="checkbox"/> | DEFVAL        | DEFVAL         |

Modify All Cancel All **Set**

## 2.12 Port Status

In this part, users can oversee the condition of each port. Click “**Refresh**” to renew the latest condition.

For example:

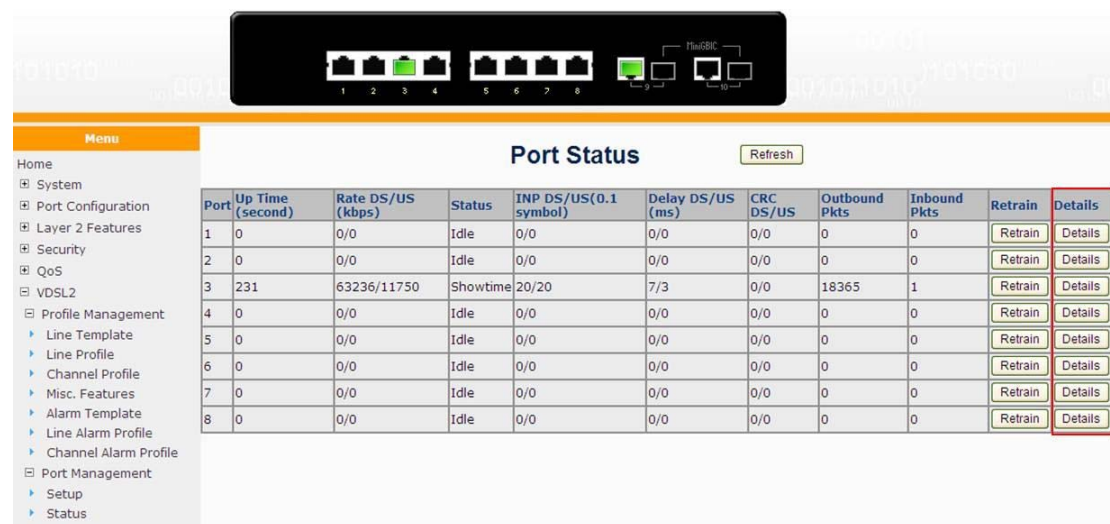
Port 1: Click “**Retrain**” to update idle status.

Port 3: The value is shown when a port is connecting.

| Port | Up Time (second) | Rate DS/US (kbps) | Status   | INP DS/US(0.1 symbol) | Delay DS/US (ms) | CRC DS/US | Outbound Pkts | Inbound Pkts | Retrain | Details |
|------|------------------|-------------------|----------|-----------------------|------------------|-----------|---------------|--------------|---------|---------|
| 1    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 2    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 3    | 231              | 63236/11750       | Showtime | 20/20                 | 7/3              | 0/0       | 18365         | 1            | Retrain | Details |
| 4    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 5    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 6    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 7    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 8    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |

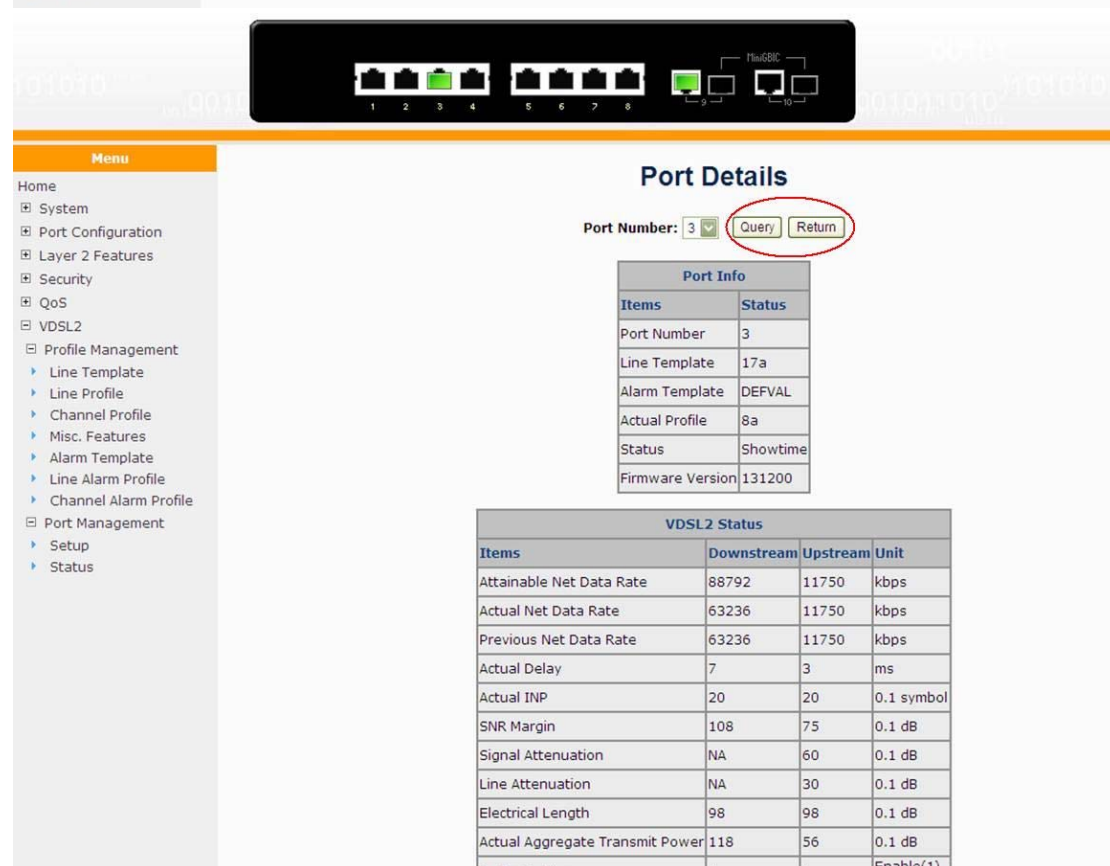
## 2.13 Port Details

When the ports are connecting, Click “**Details**” to get more information, status, band status and so on. Besides, it is more convenient to review other ports status and back to the main page by clicking “**Query**” and “**Return**”.



**Port Status** Refresh

| Port | Up Time (second) | Rate DS/US (kbps) | Status   | INP DS/US(0.1 symbol) | Delay DS/US (ms) | CRC DS/US | Outbound Pkts | Inbound Pkts | Retrain | Details |
|------|------------------|-------------------|----------|-----------------------|------------------|-----------|---------------|--------------|---------|---------|
| 1    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 2    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 3    | 231              | 63236/11750       | Showtime | 20/20                 | 7/3              | 0/0       | 18365         | 1            | Retrain | Details |
| 4    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 5    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 6    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 7    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |
| 8    | 0                | 0/0               | Idle     | 0/0                   | 0/0              | 0/0       | 0             | 0            | Retrain | Details |

**Port Details**

Port Number: 3 Query Return

| Port Info        |          |  |  |
|------------------|----------|--|--|
| Items            | Status   |  |  |
| Port Number      | 3        |  |  |
| Line Template    | 17a      |  |  |
| Alarm Template   | DEFVAL   |  |  |
| Actual Profile   | 8a       |  |  |
| Status           | Showtime |  |  |
| Firmware Version | 131200   |  |  |

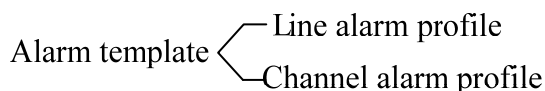
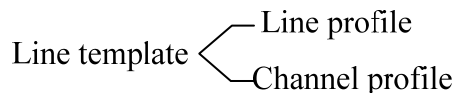
  

| VDSL2 Status                    |            |          |            |
|---------------------------------|------------|----------|------------|
| Items                           | Downstream | Upstream | Unit       |
| Attainable Net Data Rate        | 88792      | 11750    | kbps       |
| Actual Net Data Rate            | 63236      | 11750    | kbps       |
| Previous Net Data Rate          | 63236      | 11750    | kbps       |
| Actual Delay                    | 7          | 3        | ms         |
| Actual INP                      | 20         | 20       | 0.1 symbol |
| SNR Margin                      | 108        | 75       | 0.1 dB     |
| Signal Attenuation              | NA         | 60       | 0.1 dB     |
| Line Attenuation                | NA         | 30       | 0.1 dB     |
| Electrical Length               | 98         | 98       | 0.1 dB     |
| Actual Aggregate Transmit Power | 118        | 56       | 0.1 dB     |
| Transmit Coding                 | 1          | 1        | Enable(1)  |

## 3 VDSL Profile

### 3.1 Profile Structure

**VDSL profile binary tree relations:**



### 3.2 Profile group

#### 3.2.1 *line- template group*: xDSL line configuration template

**new**: Create new xdsl profile

Usage: cmd <profile\_name>

**del**: Delete xdsl profile

Usage: cmd <profile\_name>

**show**: Show all profile names or show detail information of a specified profile

Usage: cmd profile :show profile names

Usage: cmd line-template :show line template names

Usage: cmd line-template <profile\_name> :show single line template content

Usage: cmd line-profile :show line profile names

Usage: cmd line-profile <profile\_name> :show single line profile content

Usage: cmd virtual-noise <profile\_name> :show single virtual noise line profile content

Usage: cmd dpbopsd <profile\_name> :show single DpboPsd line profile content

Usage: cmd rfi-bands <profile\_name> :show single RfiBands line profile content

Usage: cmd chan-profile :show channel profile names

Usage: cmd chan-profile <profile\_name> :show single channel profile content

Usage: cmd alarm-template :show line template names

Usage: cmd alarm-template <profile\_name> :show single line template content

Usage: cmd line-alarmprofile :show line profile names

Usage: cmd line-alarm-profile <profile\_name> :show single line profile content

Usage: cmd chan-alarm-profile :show channel profile content

Usage: cmd chan-alarm-profile <profile\_name> :show single channel profile content

Usage: cmd port :show profile used in each port

**set group**: Set commands for xdsl template profile

**line-profile**: Specifies the line configuration profile

Usage: cmd <LineTemplate profile\_name> <LineProfile profile\_name>

**chan-profile**: Specifies the channel configuration profile

Usage: cmd <LineTemplate profile\_name> <ChannelProfile profile\_name>

### 3.2.2 *line-profile group*: xDSL line configuration profile

**new**: Create new xdsl profile

Usage: cmd <profile\_name>

**del**: Delete xdsl profile

Usage: cmd <profile\_name>

**show**: Show all profile names or show detail information of a specified profile

Usage: cmd profile :show profile names

Usage: cmd line-template :show line template names

Usage: cmd line-template <profile\_name> :show single line template content

Usage: cmd line-profile :show line profile names

Usage: cmd line-profile <profile\_name> :show single line profile content

Usage: cmd virtual-noise <profile\_name> :show single virtual noise line profile content

Usage: cmd dpbopsd <profile\_name> :show single DpboPsd line profile content

Usage: cmd rfi-bands <profile\_name> :show single RfiBands line profile content

Usage: cmd chan-profile :show channel profile names

Usage: cmd chan-profile <profile\_name> :show single channel profile content

Usage: cmd alarm-template :show line template names

Usage: cmd alarm-template <profile\_name> :show single line template content

Usage: cmd line-alarmprofile :show line profile names

Usage: cmd line-alarm-profile <profile\_name> :show single line profile content

Usage: cmd chan-alarm-profile :show channel profile content

Usage: cmd chan-alarm-profile <profile\_name> :show single channel profile content

Usage: cmd port :show profile used in each port

**set group**: Set commands for xdsl line profile

**SYS**: xDSL System profile

Usage: cmd <profile\_name> <value>

**BND**: Band profile name

Usage: cmd <profile\_name> <value>

**VNS**: Virtual noise PSD name

Usage: cmd <profile\_name> <value>

**PSD**: PSD name

Usage: cmd <profile\_name> <value>

**RFI**: RFI name

Usage: cmd <profile\_name> <value>

**DPB**: DpboEPsd name

Usage: cmd <profile\_name> <value>

## profiles: xDSL profiles

Usage: cmd <profile\_name> <8 bit bitmasks>

0 : non-active

1 : active

|           |           |           |           |
|-----------|-----------|-----------|-----------|
| Bit 7:30a | Bit 6:17a | Bit 5:12b | Bit 4:12a |
| Bit 3:8d  | Bit 2:8c  | Bit 1:8b  | Bit 0:8a  |

Example:

active 30a:

cmd <profile\_name> 10000000

active 30a,12b:

cmd <profile\_name> 10100000

active 30a,17a,12b,12a,8d,8c,8b,8a:

cmd <profile\_name> 11111111

## targetSnrmDs : signal noise ratio margin target at DS

Usage: cmd <profile\_name> <value-dec>

Value:0-310

## targetSnrmUs : signal noise ratio margin target at US

Usage: cmd <profile\_name> <value-dec>

Value:0-310

## maxSnrmDs : signal noise ratio margin max at DS

Usage: cmd <profile\_name> <value-dec>

Value:0-310

## maxSnrmUs : signal noise ratio margin max at US

Usage: cmd <profile\_name> <value-dec>

Value:0-310

## minSnrmDs : signal noise ratio margin min at DS

Usage: cmd <profile\_name> <value-dec>

Value:0-310

## minSnrmUs : signal noise ratio margin min at US

Usage: cmd <profile\_name> <value-dec>

Value:0-310

## led : On/Off vdsl led slow flash of light at vdsl idle status

Usage: cmd <profile\_name> <option>

Option: on off

**bitSwapUs** : On/Off Upstream bit swapping

Usage: cmd <profile\_name> <option>

Option: on off

**bitSwapDs** : On/Off Downstream bit swapping

Usage: cmd <profile\_name> <option>

Option: on off

**us0disable** : Upstream band number 0

Usage: cmd <profile\_name> <option>

Option: allow disable

**handshakeTone** : Handshake tone mode

Usage: cmd <profile\_name> <value-dec>

Handshake\_tone: value-range 0 , 1 , 2 , 7

Value-range 0:auto 1:A43 2:B43 7:V43

**upboKLF** : UPBO force mode

Usage: cmd <profile\_name> <value-dec>

1:auto 2:override 3:disableUpbo

**upboPsdA0** : UPBO parameter A for band 0

Usage: cmd <profile\_name> <value-dec>

Value:4000-8095

**upboPsdB0** : UPBO parameter B for band 0

Usage: cmd <profile\_name> <value-dec>

Value:0-4095

**upboPsdA1** : UPBO parameter A for band 1

Usage: cmd <profile\_name> <value-dec>

Value:4000-8095

**upboPsdB1** : UPBO parameter B for band 1

Usage: cmd <profile\_name> <value-dec>

Value:0-4095

**upboPsdA2** : UPBO parameter A for band 2

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:4000-8095

**upboPsdB2** : UPBO parameter B for band 2

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value-range:0-4095

**upboPsdA3** : UPBO parameter A for band 3

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:4000-8095

**upboPsdB3** : UPBO parameter B for band 3

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:0-4095

**dpboEsEL** : The electrical length of exchange to cabinet cable

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:0-511

**dpboEsCableModelA** : E-side cable model parameter A

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:0-640

**dpboEsCableModelB** : E-side cable model parameter B

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:0-640

**dpboEsCableModelC** : E-side cable model parameter C

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:0-640

**dpboMus** : Assumed minimum usable PSD mask of exchange signals at remote site

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:0-255

**dpboFMin** : The lower bound on the DPBO frequency span

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:0-2048

**dpboFMax** : The upper bound on the DPBO frequency span

Usage: cmd <profile\_name> <value-dec>

Value:32-6956

**raModeDs** : The mode of operation of a rate-adaptive xTU-C in the transmit direction

Usage: cmd <profile\_name> <value-dec>

1:manual          2:raInit          3:dynamicRa

**raModeUs** : The mode of operation of a rate-adaptive xTU-R in the transmit direction

Usage: cmd <profile\_name> <value-dec>

1:manual          2:raInit          3:dynamicRa

**raUsNrmDs** : Downstream up-shift Signal/Noise Margin

Usage: cmd <profile\_name> <value-dec>

Value:0-310

**raUsNrmUs** : Upstream up-shift Signal/Noise Margin

Usage: cmd <profile\_name> <value-dec>

Value:0-310

**raUsTimeDs** : Downstream up-shift time interval

Usage: cmd <profile\_name> <value-dec>

Value:0-16383

**raUsTimeUs** : Upstream up-shift time interval

Usage: cmd <profile\_name> <value-dec>

Value:0-16383

**raDsNrmDs** : Downstream down-shift Signal/Noise Margin

Usage: cmd <profile\_name> <value-dec>

Value:0-310

**raDsNrmUs** : Upstream down-shift Signal/Noise Margin

Usage: cmd <profile\_name> <value-dec>

Value:0-310

**raDsTimeDs** : Downstream down-shift time interval

Usage: cmd <profile\_name> <value-dec>

Value-range:0-16383

**raDsTimeUs** : Upstream down-shift time interval

Usage: cmd <profile\_name> <value-dec>

Value-range:0-16383

**snrModeDs** : Virtual noise is active on the line in the downstream

Usage: cmd <profile\_name> <value-dec>

1:disable          2:enable

**snrModeUs** : Virtual noise is active on the line in the upstream

Usage: cmd <profile\_name> <value-dec>

1:disable          2:enable

**maxNomAtpDs** : Maximum nominal aggregate transmit power in the downstream

Usage: cmd <profile\_name> <value-dec>

Value:0-205 unit 0.1dBm

**maxNomAtpUs** : Maximum nominal aggregate transmit power in the upstream

Usage: cmd <profile\_name> <value-dec>

Value:0-205 unit 0.1dBm

**maxNomPsdDs** : Maximum nominal aggregate transmit PSD in the downstream

Usage: cmd <profile\_name> <value-dec>

Value:-300~-600 units 0.1dBm/Hz

**maxNomPsdUs** : Maximum nominal aggregate transmit PSD in the upstream

Usage: cmd <profile\_name> <value-dec>

Value:-300~-600 units 0.1dBm/Hz

**automodeColdStart**: Automode cold start forced

Usage: cmd <profile\_name> <value-dec>

Value:0-1

0:off              1:on

**automodeLength**: Automode threshold

Usage: cmd <profile\_name> <value-dec>

Value:1500-3900

### 3.2.3 *chan-profile* group: xDSL channel configuration profile

**new**: Create new xdsl channel profile

Usage: cmd <profile\_name>

**del:** Delete xdsl channel profile

Usage: cmd <profile\_name>

**show:** Show all profile names or show detail information of a specified profile

Usage: cmd profile :show profile names

Usage: cmd line-template :show line template names

Usage: cmd line-template <profile\_name> :show single line template content

Usage: cmd line-profile :show line profile names

Usage: cmd line-profile <profile\_name> :show single line profile content

Usage: cmd virtual-noise <profile\_name> :show single virtual noise line profile content

Usage: cmd dpbopsd <profile\_name> :show single DpboPsd line profile content

Usage: cmd rfi-bands <profile\_name> :show single RfiBands line profile content

Usage: cmd chan-profile :show channel profile names

Usage: cmd chan-profile <profile\_name> :show single channel profile content

Usage: cmd alarm-template :show line template names

Usage: cmd alarm-template <profile\_name> :show single line template content

Usage: cmd line-alarmprofile :show line profile names

Usage: cmd line-alarm-profile <profile\_name> :show single line profile content

Usage: cmd chan-alarm-profile :show channel profile content

Usage: cmd chan-alarm-profile <profile\_name> :show single channel profile content

Usage: cmd port :show profile used in each port

**set group:** Set commands for xdsl channel profile

**minDataRateDsCh1 :** CH1 Mini Data Rate at DS

Usage: cmd <profile\_name> <value-dec>

Value:0-200000 kbps

**minDataRateUsCh1 :** CH1 Mini Data Rate at US

Usage: cmd <profile\_name> <value-dec>

Value:0-200000 kbps

**maxDataRateDsCh1 :** CH1 Maxi Data Rate at DS

Usage: cmd <profile\_name> <value-dec>

Value:0-200000 kbps

**maxDataRateUsCh1 :** CH1 Maxi Data Rate at US

Usage: cmd <profile\_name> <value-dec>

Value:0-200000 kbps

**maxDelayDsCh1** : CH1 Max Interleave Delay at DS

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value: 0-255 ms

**maxDelayUsCh1** : CH1 Max Interleave Delay at US

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value: 0-255 ms

**minInpDsCh1** : CH1 DS min INP in 4.3125kHz

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:1-18

**minInpUsCh1** : CH1 US min INP in 4.3125kHz

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value:1-18

**minInp8DsCh1** : CH1 DS min INP in 8.625kHz

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value-dec:1-17

**minInp8UsCh1** : CH1 US min INP in 8.625kHz

Usage: cmd &lt;profile\_name&gt; &lt;value-dec&gt;

Value-dec:1-17

**3.2.4 alarm-template group:** xDSL alarm template**new:** Create new xdsl template profile

Usage: cmd &lt;profile\_name&gt;

**del:** Delete xdsl template profile

Usage: cmd &lt;profile\_name&gt;

**show:** Show all profile names or show detail information of a specified profile

Usage: cmd profile :show profile names

Usage: cmd line-template :show line template names

Usage: cmd line-template &lt;profile\_name&gt; :show single line template content

Usage: cmd line-profile :show line profile names

Usage: cmd line-profile &lt;profile\_name&gt; :show single line profile content

Usage: cmd virtual-noise &lt;profile\_name&gt; :show single virtual noise line profile content

Usage: cmd dpbopsd &lt;profile\_name&gt; :show single DpboPsd line profile content

Usage: cmd rfi-bands &lt;profile\_name&gt;:show single RfiBands line profile content

Usage: cmd chan-profile :show channel profile names

Usage: cmd chan-profile <profile\_name> :show single channel profile content  
Usage: cmd alarm-template :show line template names  
Usage: cmd alarm-template <profile\_name> :show single line template content  
Usage: cmd line-alarmprofile :show line profile names  
Usage: cmd line-alarm-profile <profile\_name> :show single line profile content  
Usage: cmd chan-alarm-profile :show channel profile content  
Usage: cmd chan-alarm-profile <profile\_name> :show single channel profile content  
Usage: cmd port :show profile used in each port

**set group:** Set commands for xdsl template profile

**line-alarm-profile :** Specifies the line alarm configuration profile

Usage: cmd <AlarmTemplate profile\_name> <LineAlarmProfile profile\_name>

**chan-alarm-profile :** Specifies the channel alarm configuration profile

Usage: cmd <AlarmTemplate profile\_name> <ChannelAlarmProfile profile\_name>

### 3.2.5 *line-alarm-profile* group: xDSL line alarm profile

**new:** Create new xdsl line alarm profile

Usage: cmd <profile\_name>

**del:** Delete xdsl line alarm profile

Usage: cmd <profile\_name>

**show:** Show all profile names or show detail information of a specified profile

Usage: cmd profile :show profile names  
Usage: cmd line-template :show line template names  
Usage: cmd line-template <profile\_name> :show single line template content  
Usage: cmd line-profile :show line profile names  
Usage: cmd line-profile <profile\_name> :show single line profile content  
Usage: cmd virtual-noise <profile\_name> :show single virtual noise line profile content  
Usage: cmd dpbopsd <profile\_name> :show single DpboPsd line profile content  
Usage: cmd rfi-bands <profile\_name> :show single RfiBands line profile content  
Usage: cmd chan-profile :show channel profile names  
Usage: cmd chan-profile <profile\_name> :show single channel profile content  
Usage: cmd alarm-template :show line template names  
Usage: cmd alarm-template <profile\_name> :show single line template content  
Usage: cmd line-alarmprofile :show line profile names  
Usage: cmd line-alarm-profile <profile\_name> :show single line profile content  
Usage: cmd chan-alarm-profile :show channel profile content  
Usage: cmd chan-alarm-profile <profile\_name> :show single channel profile content  
Usage: cmd port :show profile used in each port

**set group:** Set commands for xdsl line alarm profile

xtucFecs : A threshold for the Fecs counter in the current 15M interval on XTUC

xtucEs : A threshold for the Es counter in the current 15M interval on XTUC

xtucSes : A threshold for the Ses counter in the current 15M interval on XTUC

xtucLoss : A threshold for the Loss counter in the current 15M interval on XTUC

xtucUas : A threshold for the Uas counter in the current 15M interval on XTUC

xturFecs : A threshold for the Fecs counter in the current 15M interval on XTUR

xturEs : A threshold for the Es counter in the current 15M interval on XTUR

xturSes : A threshold for the Ses counter in the current 15M interval on XTUR

xturLoss : A threshold for the Loss counter in the current 15M interval on XTUR

xturUas : A threshold for the Uas counter in the current 15M interval on XTUR

fullInt : A threshold for the count of failed full initializations in the current 15M interval

shrtInt : A threshold for the count of failed short initializations in the current 15M interval

Usage: cmd <profile\_name> <value-dec>

### **3.2.6 *chan-alarm-profile* group:** xDSL channel alarm profile

**new:** Create new xdsl channel alarm profile

Usage: cmd <profile\_name>

**del:** Delete xdsl channel alarm profile

Usage: cmd <profile\_name>

**show:** Show all profile names or show detail information of a specified profile

Usage: cmd profile :show profile names

Usage: cmd line-template :show line template names

Usage: cmd line-template <profile\_name> :show single line template content

Usage: cmd line-profile :show line profile names

Usage: cmd line-profile <profile\_name> :show single line profile content

Usage: cmd virtual-noise <profile\_name> :show single virtual noise line profile content

Usage: cmd dpbopsd <profile\_name> :show single DpboPsd line profile content

Usage: cmd rfi-bands <profile\_name> :show single RfiBands line profile content

Usage: cmd chan-profile :show channel profile names

Usage: cmd chan-profile <profile\_name> :show single channel profile content

Usage: cmd alarm-template :show line template names

Usage: cmd alarm-template <profile\_name> :show single line template content

Usage: cmd line-alarmprofile :show line profile names

Usage: cmd line-alarm-profile <profile\_name> :show single line profile content

Usage: cmd chan-alarm-profile :show channel profile content

Usage: cmd chan-alarm-profile <profile\_name> :show single channel profile content

Usage: cmd port :show profile used in each port

**set group:** Set commands for xdsl channel profile

**cvThresXtuc :** A threshold for the coding violation counter in the current 15M interval on XTUC

**correctedThresXtuc :** A threshold for the corrected code word counter in the current 15M interval on XTUC

**cvThresXtur :** A threshold for the coding violation counter in the current 15M interval on XTUR

**correctedThresXtur :** A threshold for the corrected code word counter in the current 15M interval on XTUR

Usage: cmd <profile\_name> <value-dec>

### 3.2.7 *pre-define group:* xDSL pre-define configuration

**vn-new :** Create new xdsl vitrual noise psd profile

Usage: cmd <profile\_name>

**vn-del :** Delete xdsl vitrual noise psd profile

Usage: cmd <profile\_name>

**vn-set-ds :** Set xdsl vitrual noise downstream psd profile

Usage: cmd <profile\_name> <index> <tone> <nlevel>

Index:1~32                      Tone:1~7000 (4.3125kHz)                      Nlevel:-40~-140 dBm/Hz

Usage: cmd <profile\_name> <mibs-value>                      Mibs-value is 192 hex encode

**vn-set-us :** Set xdsl vitrual noise upstream psd profile

Usage: cmd <profile\_name> <index> <tone> <nlevel>

index:1~16                      Tone:1~7000 (4.3125kHz)                      Nlevel:-40~-140 dBm/Hz

Usage: cmd <profile\_name> <mibs-value>                      Mibs-value is 96 hex encode

**dep-new :** Create new xdsl DpboEPsd profile

Usage: cmd <profile\_name>

**dep-del :** Delete xdsl DpboEPsd profile

Usage: cmd <profile\_name>

**dep-set :** Set xdsl DpboPsd profile

Usage: cmd <profile\_name> <index> <tone> <nlevel>

Index:1~32                      Tone:1~7000 (4.3125kHz)                      Nlevel:-127.5~0 dBm/Hz

Usage: cmd <profile\_name> <mibs-value>                      Mibs-value is 192 hex encode

**rfi-new :** Create new xdsl RfiBands profile

Usage: cmd <profile\_name>

**rfi-del** : Delete xdsl RfiBands profile

Usage: cmd <profile\_name>

**rfi-set** : Set xdsl RfiBands profile

Usage: cmd <profile\_name> <index> <start\_tone> <end\_tone>

Index:1~16                      Tone:1~7000 (4.3125kHz)

Usage: cmd <profile\_name> <mibs-value>                      Mibs-value is 192 hex encode

**show** : Show all profile names or show detail information of a specified profile

Usage: cmd profile                                              :show profile names

Usage: cmd line-template                                      :show line template names

Usage: cmd line-template <profile\_name> :show single line template content

Usage: cmd line-profile                                        :show line profile names

Usage: cmd line-profile <profile\_name> :show single line profile content

Usage: cmd virtual-noise <profile\_name> :show single virtual noise line profile content

Usage: cmd dpbopsd <profile\_name> :show single DpboPsd line profile content

Usage: cmd rfi-bands <profile\_name>:show single RfiBands line profile content

Usage: cmd chan-profile                                        :show channel profile names

Usage: cmd chan-profile <profile\_name> :show single channel profile content

Usage: cmd alarm-template                                    :show line template names

Usage: cmd alarm-template <profile\_name> :show single line template content

Usage: cmd line-alarmprofile                                 :show line profile names

Usage: cmd line-alarm-profile <profile\_name> :show single line profile content

Usage: cmd chan-alarm-profile                                :show channel profile content

Usage: cmd chan-alarm-profile <profile\_name> :show single channel profile content

Usage: cmd port                                                :show profile used in each port

### 3.2.8 **port group**: xDSL Port configuration

**show** : Show port of a specified profile

**initprofile** : Initialize profile to all vdsl port

Usage: cmd

**set group** : Set commands for xdsl port

**line-template** : Apply VDSL line configuration template for this line

Usage: cmd <port> <Vdsl Config Line Template Name>

**alarm-template** : Apply VDSL line alarm configuration template for this line

Usage: cmd <port> <Vdsl Config Alarm Template Name>

**line-alarm-template** : Apply VDSL line, line and alarm configuration template for this line

Usage: cmd <port> <LineTemplate Name> <AlarmTemplate Name>

## 4 show group

### 4.1 Status List : There are 23 items as below.

| ITEM                   | DESCRIPTION                                                                        |
|------------------------|------------------------------------------------------------------------------------|
| 1. Summary             | Show line status summary                                                           |
| 2. Status              | Show line status                                                                   |
| 3. Pm-line-curr        | Show current counters of xdsl lines                                                |
| 4. Pm-ch-curr          | Show current counters of xdsl channels                                             |
| 5. Invent              | Show inventory of xdsl lines                                                       |
| 6. Threshold           | Show threshold of xdsl lines                                                       |
| 7. Line                | Show xdsl2LineTable                                                                |
| 8. Lineband            | Show xdsl2LineBandTable                                                            |
| 9. Channel status      | Show xdsl2ChannelStatusTable                                                       |
| 10. Scstatus           | Show xdsl2SCStatusTable                                                            |
| 11. Scstatussegment    | Show xdsl2SCStatusSegmentTable                                                     |
| 12. Pmlineinitcurr     | Show PMLineInitCurrTable                                                           |
| 13. Line-template      | Show Line Template profile names or show detail information of a specified profile |
| 14. Line-profile       | Show Line Profile names or show detail information of a specified profile          |
| 15. Chan-profile       | Show Channel Profile names or show detail information of a specified profile       |
| 16. Alarm-template     | Show Alarm Template names or show detail information of a specified profile        |
| 17. Line-alarm-profile | Show Line Alarm Profile names or show detail information of a specified profile    |
| 18. Chan-alarm-profile | Show Channel Alarm Profile names or show detail information of a specified profile |
| 19. Port               | Show port of a specified profile                                                   |
| 20. Virtual-noise      | Show Virtual Noise names or show detail information of a specified profile         |
| 21. Dpbopsd            | Show Dpbopsd names or show detail information of a specified profile               |
| 22. Rfi-bands          | Show RfiBands names or show detail information of a specified profile              |
| 23. Sprofile           | Show system profile names                                                          |

### 4.1.1 summary : Show line status summary

Usage: cmd

```
VDSL (show)>summary 1
Port/Rate US/DS Status INP US/DS Delay US/DS CRC US/DS TxPkts/RxPkts
1 101056/101056 Showtime 20/20 5/5 7525/6105 1281/766
```

### 4.1.2 status : Show line status

Usage: cmd <portid>

```
VDSL (show)>status 1
Status (Basic) of Line 1: Showtime
Profile: 30a
Actual Data Rate 101056 (US) Kb/s
Actual Data Rate 101056 (DS) Kb/s
SNR Margin 113 (US) 0.1dB
SNR Margin 116777214 (DS) 0.1dB
Signal Attenuation 10 (US) 0.1dB
Signal Attenuation 10 (DS) 0.1dB
Line Attenuation 10 (US) 0.1dB
Line Attenuation 10 (DS) 0.1dB
Firmware Version 1010200

Status (Advance) of Line 1:
Upstream Downstream
Actual delay 15 5 ms
Actual INP 120 20 0.1 symbols
15M CV 10 0
1Day CV 10 0
Total CV 17525 6105
15M FEC 10 0
1Day FEC 1498325 1267968
Total FEC 1626199 796195
Previous Data Rate 101056 101056 Kbps
Attainable Rate 106968 161834 Kbps
Electrical Length 18 8 0.1 dB
Transmit Power 1142 144 0.1 dBm
Trellis 11 1
Interleaving Depth 1449 449
Interleaving Block 144 144
SNR Margin INA
SNR Margin 1113 16777197 (US0,-->) 0.1 dB
SNR Margin 1114 2 (US1,DS1) 0.1 dB
SNR Margin 1113 3 (US2,DS2) 0.1 dB
SNR Margin INA NA (US3,DS3) 0.1 dB
SNR Margin INA NA (US4,DS4) 0.1 dB
Signal Attenuation INA -- (US0,-->) 0.1 dB
Signal Attenuation 10 0 (US1,DS1) 0.1 dB
Signal Attenuation 10 0 (US2,DS2) 0.1 dB
Signal Attenuation 10 0 (US3,DS3) 0.1 dB
Signal Attenuation INA NA (US4,DS4) 0.1 dB
Line Attenuation INA -- (US0,-->) 0.1 dB
Line Attenuation 10 0 (US1,DS1) 0.1 dB
Line Attenuation 10 0 (US2,DS2) 0.1 dB
Line Attenuation 10 0 (US3,DS3) 0.1 dB
Line Attenuation INA NA (US4,DS4) 0.1 dB
15M Elapsed time 1657 657 secs
15M FECS 10 0
15M ES 10 0
15M SES 10 0
15M LOSS 10 0
15M URS 10 0
15M Full Inits 10 0
1Day Elapsed time 1657 6514 secs
1Day FECS 128 18
1Day ES 128 18
1Day SES 10 0
1Day LOSS 10 0
1Day URS 10 0
1Day Full Inits 12 2
Total FECS 10 0
Total ES 10 0
Total SES 10 0
Total LOSS 10 0
Total URS 10 0
Showtime Full Inits 11 1
Showtime CV 10 0
Showtime FEC 1912800 1142326
Showtime Fecs 113 15
Showtime Es 113 15
Showtime Ses 10 0
Showtime Loss 10 0
Showtime URS 10 0
VDSL (show)>
```

### 4.1.3 pm-line-curr : Show current counters of xdsl lines

Usage: cmd <portid>

```
VDSL (show)>pm-line-curr 1
Current line counters of Line 1:
Central Office Remote site
15M Elapsed time 16 mins 35 secs 6 mins 35 secs
15M FECS 10 0
15M ES 10 0
15M SES 10 0
15M LOSS 10 0
15M URS 10 0
1Day Elapsed time 10 hours 6 mins 35 secs 0 hours 6 mins 34 secs
1Day FECS 128 18
1Day ES 128 18
1Day SES 10 0
1Day LOSS 10 0
1Day URS 10 0
```

Usage: cmd <portid>

```

VDSL (show)>pw-ch-curr 1
Current channel counters of Line 1:

Upstream(0):
15M Elapsed time    16 mins 27 secs
15M CV              10
15M FEC             10
1Day Elapsed time   10 hours 6 mins 27 secs
1Day CV             10
1Day FEC            1498325

Upstream(1):
15M Elapsed time    16 mins 27 secs
15M CV              10
15M FEC             10
1Day Elapsed time   10 hours 6 mins 27 secs
1Day CV             10
1Day FEC            10

Downstream(0):
15M Elapsed time    16 mins 27 secs
15M CV              10
15M FEC             10
1Day Elapsed time   10 hours 6 mins 27 secs
1Day CV             10
1Day FEC            11267968

Downstream(1):
15M Elapsed time    16 mins 27 secs
15M CV              10
15M FEC             10
1Day Elapsed time   10 hours 6 mins 27 secs
1Day CV             10
1Day FEC            10

```

Usage: cmd <portid>

```
VDSL (show)>>invert 1  
Line Inventory of Line 1:  
Unit          |Central Office  
Q994vendid    |Country code:b500,Vendor:META  
Systemvendid   |  
version no.    |010100101209184210000640000000000000  
serial no.     |00000000000000000000000000000000000000000000000000000000A  
self-test result|passed  
tx capabilities |000000000000000000000000380
```

---

```
Unit          |Remote Site  
Q994vendid    |Country code:b500,Vendor:META  
Systemvendid   |  
version no.    |010100101209184210000640000000000000  
serial no.     |00000000000000000000000000000000000000000000000000000000A  
self-test result|passed  
tx capabilities |000000000000000000000000380
```

Usage: cmd <portid>

```
VDSL (show)>threshold 1
Line 1 Threshold (15min error seconds):
      Central Office Remote site
FECS 10           0
ES    10           0
SES   10           0
LOSS 10           0
UAS   10           0
CV     10           0
EFC    10           0
```

Usage: cmd <portid>

```

VDSL (show)>>line 1
xds12LineTable of Line 1:

```

|                                              | Value   | Description                                         |
|----------------------------------------------|---------|-----------------------------------------------------|
| 4-No power management                        | 14      |                                                     |
| Attainable Rate Ds                           | 1161834 | (kbps)                                              |
| Attainable Rate Us                           | 1106968 | (kbps)                                              |
| ATP Ds                                       | 1144    | (0,1dB)                                             |
| ATP Us                                       | 1142    | (0,1dB)                                             |
| Profile                                      | 17      | 8a(0),8b(1),8c(2),8d(3),12a(4),12b(5),17a(6),30a(7) |
| Virtual noise Ds                             | 11      | Disabled(1),Enabled(2)                              |
| Virtual noise Us                             | 11      | Disabled(1),Enabled(2)                              |
| Electrical Length                            | 18      | (0,1dB)                                             |
| Trellis Ds                                   | 11      | Not used(0),Used(1)                                 |
| Trellis Us                                   | 11      | Not used(0),Used(1)                                 |
| Cyclic extension                             | 15      | N/32 samples                                        |
| Psd l1elvel (dBm/Hz) Us : Tone No,IPSD level | 01      |                                                     |
| nan                                          |         |                                                     |
| Psd l1elvel (dBm/Hz) Ds : Tone No,IPSD level | 01      |                                                     |
| nan                                          |         |                                                     |

## 4.1.8 lineband : Show xdsl2LineBandTable

Usage: cmd <portid>

```
VDSL (show)>>lineband 1
xdsl2LineBandTable of Line 1:
```

|                    | Value     | Description                                                                  |
|--------------------|-----------|------------------------------------------------------------------------------|
| Band ID            | 13        | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | INA       | (0.1 dB)                                                                     |
| Signal Attenuation | INA       | (0.1 dB)                                                                     |
| SNR Margin         | INA       | (0.1 dB)                                                                     |
| Band ID            | 15        | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | 10        | (0.1 dB)                                                                     |
| Signal Attenuation | 10        | (0.1 dB)                                                                     |
| SNR Margin         | 1113      | (0.1 dB)                                                                     |
| Band ID            | 17        | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | 10        | (0.1 dB)                                                                     |
| Signal Attenuation | 10        | (0.1 dB)                                                                     |
| SNR Margin         | 1113      | (0.1 dB)                                                                     |
| Band ID            | 19        | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | 10        | (0.1 dB)                                                                     |
| Signal Attenuation | 10        | (0.1 dB)                                                                     |
| SNR Margin         | 1113      | (0.1 dB)                                                                     |
| Band ID            | 111       | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | INA       | (0.1 dB)                                                                     |
| Signal Attenuation | INA       | (0.1 dB)                                                                     |
| SNR Margin         | INA       | (0.1 dB)                                                                     |
| Band ID            | 14        | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | 10        | (0.1 dB)                                                                     |
| Signal Attenuation | 10        | (0.1 dB)                                                                     |
| SNR Margin         | 116777197 | (0.1 dB)                                                                     |
| Band ID            | 16        | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | 10        | (0.1 dB)                                                                     |
| Signal Attenuation | 10        | (0.1 dB)                                                                     |
| SNR Margin         | 12        | (0.1 dB)                                                                     |
| Band ID            | 18        | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | 10        | (0.1 dB)                                                                     |
| Signal Attenuation | 10        | (0.1 dB)                                                                     |
| SNR Margin         | 13        | (0.1 dB)                                                                     |
| Band ID            | 110       | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | INA       | (0.1 dB)                                                                     |
| Signal Attenuation | INA       | (0.1 dB)                                                                     |
| SNR Margin         | INA       | (0.1 dB)                                                                     |
| Band ID            | 11        | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | 10        | (0.1 dB)                                                                     |
| Signal Attenuation | 10        | (0.1 dB)                                                                     |
| SNR Margin         | 1113      | (0.1 dB)                                                                     |
| Band ID            | 12        | us(1),ds(2),us0(3),ds1(4),us1(5),ds2(6),us2(7),ds3(8),us3(9),ds4(10),us4(11) |
| Line Attenuation   | 10        | (0.1 dB)                                                                     |
| Signal Attenuation | 10        | (0.1 dB)                                                                     |
| SNR Margin         | 116777214 | (0.1 dB)                                                                     |

## 4.1.9 channelstatus : Show xdsl2ChannelStatusTable

Usage: cmd <portid> <upstream/downstream>

```
VDSL (show)>>channelstatus 1 upstream
xdsl2ChannelStatusTable of Line 1:
```

|                                         | Value  | Description                                                |
|-----------------------------------------|--------|------------------------------------------------------------|
| Upstream(0)                             |        |                                                            |
| Actual Data Rate                        | 101056 | (kbps)                                                     |
| Previous Data Rate                      | 101056 | (kbps)                                                     |
| Actual delay                            | 15     | (ns)                                                       |
| Actual INP                              | 120    | (0.1 DMT symbol)                                           |
| INP reporting mode                      | 11     | UsingFormula(1),By/tur(2)                                  |
| Size of Reed-Solomon codeword           | 144    | (bytes)                                                    |
| Number of Reed-Solomon redundancy bytes | 16     | (bytes)                                                    |
| Number of bits per symbol               | 114274 | (bits)                                                     |
| Interleaving Depth                      | 1449   |                                                            |
| Interleaving Block Length               | 144    |                                                            |
| Latency Path                            | 10     | FAST(0),INTERLEAVED(1)                                     |
| Status of ATM Data Path                 | 10     | BITS:noDefect(0),noCellDelineation(1),lossOfDelineation(2) |
| Status of PTM Data Path                 | 10     | BITS:noDefect(0),outOfSync(1)                              |
| Upstream(1)                             |        |                                                            |
| Actual Data Rate                        | 10     | (kbps)                                                     |
| Previous Data Rate                      | 10     | (kbps)                                                     |
| Actual delay                            | 10     | (ns)                                                       |
| Actual INP                              | 11     | (0.1 DMT symbol)                                           |
| INP reporting mode                      | 11     | UsingFormula(1),By/tur(2)                                  |
| Size of Reed-Solomon codeword           | 10     | (bytes)                                                    |
| Number of Reed-Solomon redundancy bytes | 10     | (bytes)                                                    |
| Number of bits per symbol               | 10     | (bits)                                                     |
| Interleaving Depth                      | 10     |                                                            |
| Interleaving Block Length               | 10     |                                                            |
| Latency Path                            | 11     | FAST(0),INTERLEAVED(1)                                     |
| Status of ATM Data Path                 | 10     | BITS:noDefect(0),noCellDelineation(1),lossOfDelineation(2) |
| Status of PTM Data Path                 | 10     | BITS:noDefect(0),outOfSync(1)                              |

#### 4.1.10 scstatus : Show xdsl2SCStatusTable

Usage: cmd <portid>

```
VDSL (show)>scstatus 1
xdsl2SCStatusTable of Line 1:
```

|                                      | Value  | Description               |
|--------------------------------------|--------|---------------------------|
| Direction                            | I1     | upstream(1),downstream(2) |
| Scale factor to H(f) linear value    | I26031 |                           |
| Number of SC per group (H(f) linear) | I8     |                           |
| Symbols to measure Hlog(f)           | I256   |                           |
| Number of SC per group (H(f) log)    | I8     |                           |
| Symbols to measure QLN(f)            | I256   |                           |
| Number of SC per group (QLN)         | I8     |                           |
| Symbols to measure SNR(f)            | I1     |                           |
| Number of SC per group (SNR)         | I8     |                           |
| Row Status                           | I1     |                           |
| Direction                            | I2     | upstream(1),downstream(2) |
| Scale factor to H(f) linear value    | I26031 |                           |
| Number of SC per group (H(f) linear) | I8     |                           |
| Symbols to measure Hlog(f)           | I256   |                           |
| Number of SC per group (H(f) log)    | I8     |                           |
| Symbols to measure QLN(f)            | I256   |                           |
| Number of SC per group (QLN)         | I8     |                           |
| Symbols to measure SNR(f)            | I1     |                           |
| Number of SC per group (SNR)         | I8     |                           |
| Row Status                           | I1     |                           |

#### 4.1.11 scstatussegment : Show xdsl2SCStatusSegmentTable

Usage: cmd <portid> <lin/log/qln/snr/bitsalloc/gainalloc>

Show the 6 types as below.

<Lin>

```
VDSL (show)>scstatussegment 1 lin
H(f) linear representation of Line 1 :
```

| Tone No.   | Real          | Imaginary     |
|------------|---------------|---------------|
| 433- 440I  | -1.3390035629 | 0.5546857119  |
| 441- 448I  | 1.1947077513  | 0.6912237406  |
| 449- 456I  | 1.1210062769  | -0.8238828778 |
| 457- 464I  | -0.3056589961 | -1.3653802872 |
| 465- 472I  | -1.3847749233 | -0.2723002732 |
| 473- 480I  | -0.8130218983 | 1.1675553322  |
| 481- 488I  | 0.7501833439  | 1.2203086615  |
| 489- 496I  | 1.4274430275  | -0.2017039061 |
| 497- 504I  | 0.3902194798  | -1.3971874714 |
| 505- 512I  | -1.1279902458 | -0.9239590168 |
| 513- 520I  | -1.3095238209 | 0.6671744585  |
| 521- 528I  | 0.0884394050  | 1.4747658968  |
| 529- 536I  | 1.3956358433  | 0.5104660392  |
| 537- 544I  | 1.0302414894  | -1.0906674957 |
| 545- 552I  | -0.5802866220 | -1.3832232952 |
| 553- 560I  | -1.5073487759 | -0.0232735276 |
| 561- 568I  | -0.6291610003 | 1.3801201582  |
| 569- 576I  | 1.0201562643  | 1.1326450109  |
| 577- 584I  | 1.4514923096  | -0.4864167273 |
| 585- 592I  | 0.1342106760  | -1.5306223631 |
| 593- 600I  | -1.3126269579 | -0.8471564054 |
| 985- 992I  | -1.7214652300 | 0.5663225055  |
| 993-1000I  | -0.8618962765 | 1.4879541397  |
| 1001-1008I | 1.0271383524  | 1.3839991093  |
| 1009-1016I | 1.6772456169  | -0.3987531066 |
| 1017-1024I | 0.3010042906  | -1.6974159479 |
| 1025-1032I | -1.4383039474 | -0.9518872499 |
| 1033-1040I | -1.4476134777 | 0.9441294670  |
| 1041-1048I | 0.2947980165  | 1.7051737309  |
| 1049-1056I | 1.6865549088  | 0.4041835964  |
| 1057-1064I | 1.0372233775  | -1.3886537552 |
| 1065-1072I | -0.8611205220 | -1.5042456388 |
| 1073-1080I | -1.7237925529 | 0.1931702793  |
| 1081-1088I | -0.5081386566 | 1.6632814407  |
| 1089-1096I | 1.3281426430  | 1.1248872280  |
| 1097-1104I | 1.5601021051  | -0.7765600651 |
| 1105-1112I | -0.0938638947 | -1.7385325432 |
| 1113-1120I | -1.6338016987 | -0.6051117182 |
| 1121-1128I | -1.2055687904 | 1.2606494427  |
| 1129-1136I | 0.6826901436  | 1.6089766026  |
| 1137-1144I | 1.7493934631  | 0.0077578425  |
| 1145-1152I | 0.7005331516  | -1.6035460234 |
| 1153-1160I | -1.1923804283 | -1.2800440788 |
| 1161-1168I | -1.6500930786 | 0.5864928961  |
| 1169-1176I | -0.1140402853 | 1.7509450912  |
| 1177-1184I | 1.5655326843  | 0.7967303991  |
| 1185-1192I | 1.3514161110  | -1.1202324629 |
| 1193-1200I | -0.4926230013 | -1.6850033998 |
| 1201-1208I | -1.7416356802 | -0.2164438069 |
| 1209-1216I | -0.8929276466 | 1.5151066780  |
| 1217-1224I | 1.0418782234  | 1.4212367535  |
| 1225-1232I | 1.7175862789  | -0.3972015381 |
| 1233-1240I | 0.3149684072  | -1.7338777781 |
| 1241-1248I | -1.4639048576 | -0.9798154831 |
| 1249-1256I | -1.4817478657 | 0.9565420151  |
| 1257-1264I | 0.2924706638  | 1.7431871891  |
| 1265-1272I | 1.7183620930  | 0.4181477129  |
| 1273-1280I | 1.0643759966  | -1.4111515284 |
| 1281-1288I | -0.8727573156 | -1.5376043320 |
| 1289-1296I | -1.7587028742 | 0.1892913580  |
| 1297-1304I | -0.5228785872 | 1.6927611828  |
| 1305-1312I | 1.3506404161  | 1.1497123241  |
| 1313-1320I | 1.5895819664  | -0.7858694792 |
| 1321-1328I | -0.0915425420 | -1.7703397274 |
| 1329-1336I | -1.6617298126 | -0.6198515892 |
| 1337-1344I | -1.2311695814 | 1.2784924507  |
| 1345-1352I | 0.6912237406  | 1.6392321587  |
| 1353-1360I | 1.7796490192  | 0.0124125481  |
| 1361-1368I | 0.7137215137  | -1.6275954247 |
| 1369-1376I | -1.2086719082 | -1.3033175468 |
| 1377-1384I | -1.6787971258 | 0.5926991701  |
| 1385-1392I | -0.6555377245 | 1.7416356802  |
| 2665-2672I | -1.3483130932 | -1.7447388172 |

## <Log>

```
VDSL (show)>scstatussegment 1 log
SCStatusSegmentLog of Line 1:
      Tone No.      dB
DS: 33- 40| 2.3
DS: 41- 48| 2.9
DS: 49- 56| 3.6
DS: 57- 64| 4.0
DS: 65- 72| 4.4
DS: 73- 80| 4.6
DS: 81- 88| 4.8
DS: 89- 96| 5.0
DS: 97- 104| 5.1
DS: 105- 112| 5.2
DS: 113- 120| 5.2
DS: 121- 128| 5.3
DS: 129- 136| 5.3
DS: 137- 144| 5.4
DS: 145- 152| 5.4
DS: 153- 160| 5.4
DS: 161- 168| 5.4
DS: 169- 176| 5.5
DS: 177- 184| 5.5
DS: 185- 192| 5.5
DS: 193- 200| 5.5
DS: 201- 208| 5.5
DS: 209- 216| 5.5
DS: 217- 224| 5.5
DS: 225- 232| 5.5
DS: 233- 240| 5.5
DS: 241- 248| 5.5
DS: 249- 256| 5.5
DS: 257- 264| 5.5
DS: 265- 272| 5.5
DS: 273- 280| 5.5
DS: 281- 288| 5.5
DS: 289- 296| 5.5
DS: 297- 304| 5.5
DS: 305- 312| 5.5
DS: 313- 320| 5.5
DS: 321- 328| 5.5
DS: 329- 336| 5.5
DS: 337- 344| 5.5
DS: 345- 352| 5.5
DS: 353- 360| 5.5
DS: 361- 368| 5.5
DS: 369- 376| 5.5
DS: 377- 384| 5.5
DS: 385- 392| 5.5
DS: 393- 400| 5.5
DS: 401- 408| 5.5
DS: 409- 416| 5.5
DS: 417- 424| 5.5
DS: 425- 432| 5.5
US: 433- 440| 3.3
US: 441- 448| 3.3
US: 449- 456| 3.3
US: 457- 464| 3.0
US: 465- 472| 3.0
US: 473- 480| 3.1
US: 481- 488| 3.2
US: 489- 496| 3.2
US: 497- 504| 3.3
US: 505- 512| 3.3
US: 513- 520| 3.4
US: 521- 528| 3.4
US: 529- 536| 3.5
US: 537- 544| 3.5
US: 545- 552| 3.6
US: 553- 560| 3.6
US: 561- 568| 3.7
US: 569- 576| 3.7
US: 577- 584| 3.7
US: 585- 592| 3.8
US: 593- 600| 3.9
DS: 601- 608| 5.4
```

## <Qln>

```
VDSL (show)>scstatussegment 1 qln
SCStatusSegmentQln of Line 1:
      Tone Hz.      dBm/Hz
DS: 25- 32| -116.0
DS: 33- 40| -115.0
DS: 41- 48| -114.0
DS: 49- 56| -117.0
DS: 57- 64| -117.0
DS: 65- 72| -116.0
DS: 73- 80| -118.0
DS: 81- 88| -119.0
DS: 89- 96| -117.0
DS: 97- 104| -119.0
DS: 105- 112| -119.0
DS: 113- 120| -119.0
DS: 121- 128| -119.0
DS: 129- 136| -119.0
DS: 137- 144| -119.0
DS: 145- 152| -119.0
DS: 153- 160| -119.0
DS: 161- 168| -119.0
DS: 169- 176| -119.0
DS: 177- 184| -119.0
DS: 185- 192| -119.0
DS: 193- 200| -119.0
DS: 201- 208| -119.0
DS: 209- 216| -120.0
DS: 217- 224| -119.0
DS: 225- 232| -120.0
DS: 233- 240| -120.0
DS: 241- 248| -119.0
DS: 249- 256| -119.0
DS: 257- 264| -119.0
DS: 265- 272| -119.0
DS: 273- 280| -119.0
DS: 281- 288| -119.0
DS: 289- 296| -119.0
DS: 297- 304| -119.0
DS: 305- 312| -119.0
DS: 313- 320| -119.0
DS: 321- 328| -119.0
DS: 329- 336| -119.0
DS: 337- 344| -119.0
DS: 345- 352| -119.0
DS: 353- 360| -119.0
DS: 361- 368| -119.0
DS: 369- 376| -119.0
DS: 377- 384| -119.0
DS: 385- 392| -119.0
DS: 393- 400| -118.0
DS: 401- 408| -118.0
DS: 417- 424| -118.0
DS: 425- 432| -118.0
US: 481- 488| -59.0
US: 505- 512| -116.0
US: 513- 520| -114.0
US: 521- 528| -116.0
US: 529- 536| -116.0
US: 537- 544| -116.0
US: 545- 552| -116.0
US: 561- 568| -115.0
US: 569- 576| -115.0
US: 585- 592| -115.0
US: 593- 600| -115.0
DS: 601- 608| -116.0
DS: 609- 616| -117.0
DS: 625- 632| -116.0
DS: 633- 640| -117.0
DS: 641- 648| -116.0
DS: 649- 656| -116.0
DS: 657- 664| -116.0
DS: 665- 672| -116.0
DS: 673- 680| -116.0
```

## <Snr>

```
VDSL (show)>scstatussegment 1 snr
SCStatusSegmentSnr of Line 1:
Tone No.      dB
DS: 57- 64|    25.5
DS: 65- 72|    26.0
DS: 73- 80|    26.0
DS: 81- 88|    29.0
DS: 89- 96|    29.0
DS: 97- 104|   28.5
DS: 105- 112|   29.0
DS: 113- 120|   29.0
DS: 121- 128|   29.0
DS: 129- 136|   29.0
DS: 137- 144|   28.5
DS: 145- 152|   28.5
DS: 153- 160|   29.0
DS: 161- 168|   29.0
DS: 169- 176|   28.5
DS: 177- 184|   29.0
DS: 185- 192|   29.0
DS: 193- 200|   29.0
DS: 201- 208|   29.0
DS: 209- 216|   29.0
DS: 217- 224|   29.0
DS: 225- 232|   29.0
DS: 233- 240|   29.0
DS: 241- 248|   29.5
DS: 249- 256|   31.0
DS: 257- 264|   31.0
DS: 265- 272|   29.5
DS: 273- 280|   30.0
DS: 281- 288|   31.5
DS: 289- 296|   30.0
DS: 297- 304|   30.5
DS: 305- 312|   30.0
DS: 313- 320|   29.0
DS: 321- 328|   29.0
DS: 329- 336|   30.5
DS: 337- 344|   30.5
DS: 345- 352|   29.0
DS: 353- 360|   31.0
DS: 361- 368|   29.0
DS: 369- 376|   29.0
DS: 377- 384|   29.0
DS: 385- 392|   28.5
DS: 393- 400|   28.5
DS: 401- 408|   29.0
DS: 409- 416|   29.0
DS: 417- 424|   29.0
DS: 425- 432|   28.5
DS: 433- 440|   29.0
DS: 441- 448|   28.5
US: 457- 464|   56.0
US: 465- 472|   54.5
US: 473- 480|   55.0
US: 481- 488|   56.5
US: 489- 496|   55.5
US: 497- 504|   56.0
US: 505- 512|   56.0
US: 513- 520|   55.5
US: 521- 528|   54.5
US: 529- 536|   55.5
US: 537- 544|   56.0
US: 545- 552|   56.0
US: 553- 560|   56.0
US: 561- 568|   55.5
US: 569- 576|   56.0
US: 577- 584|   56.0
US: 585- 592|   57.0
US: 593- 600|   55.5
US: 601- 608|   57.0
US: 609- 616|   55.5
US: 617- 624|   53.0
DS: 625- 632|   28.5
DS: 633- 640|   28.0
```

## <Bitsalloc>

```
VDSL (show)>scstatussegment 1 bitsalloc
SCStatusSegmentBitsAlloc of Line 1 : Tone No. | Bits
1| 0 | 21| 14 | 31| 14 | 41| 14 | 51| 15 | 61| 14 | 71| 14 | 81| 14
9| 15 | 10| 15 | 11| 15 | 12| 14 | 13| 15 | 14| 14 | 15| 14 | 16| 14
17| 14 | 18| 14 | 19| 14 | 20| 14 | 21| 14 | 22| 14 | 23| 14 | 24| 14
25| 14 | 26| 15 | 27| 15 | 28| 14 | 29| 15 | 30| 14 | 31| 14 | 32| 14
33| 14 | 34| 14 | 35| 15 | 36| 14 | 37| 15 | 38| 15 | 39| 14 | 40| 14
41| 15 | 42| 14 | 43| 15 | 44| 14 | 45| 15 | 46| 15 | 47| 15 | 48| 15
49| 15 | 50| 14 | 51| 15 | 52| 14 | 53| 14 | 54| 15 | 55| 14 | 56| 14
57| 14 | 58| 15 | 59| 15 | 60| 15 | 61| 14 | 62| 15 | 63| 14 | 64| 14
65| 15 | 66| 15 | 67| 15 | 68| 15 | 69| 14 | 70| 14 | 71| 15 | 72| 15
73| 0 | 74| 0 | 75| 14 | 76| 15 | 77| 14 | 78| 14 | 79| 14 | 80| 14
81| 15 | 82| 14 | 83| 15 | 84| 15 | 85| 15 | 86| 14 | 87| 14 | 88| 15
89| 14 | 90| 14 | 91| 14 | 92| 14 | 93| 15 | 94| 14 | 95| 14 | 96| 15
97| 14 | 98| 14 | 99| 14 | 100| 15 | 101| 15 | 102| 14 | 103| 14 | 104| 15
105| 15 | 106| 14 | 107| 15 | 108| 15 | 109| 14 | 110| 15 | 111| 15 | 112| 15
113| 14 | 114| 14 | 115| 15 | 116| 14 | 117| 15 | 118| 14 | 119| 14 | 120| 15
121| 15 | 122| 15 | 123| 14 | 124| 14 | 125| 15 | 126| 15 | 127| 14 | 128| 15
129| 15 | 130| 15 | 131| 15 | 132| 14 | 133| 15 | 134| 15 | 135| 14 | 136| 14
137| 15 | 138| 14 | 139| 15 | 140| 14 | 141| 15 | 142| 15 | 143| 14 | 144| 14
145| 15 | 146| 15 | 147| 15 | 148| 14 | 149| 15 | 150| 15 | 151| 15 | 152| 15
153| 15 | 154| 15 | 155| 15 | 156| 15 | 157| 15 | 158| 14 | 159| 14 | 160| 14
161| 14 | 162| 14 | 163| 14 | 164| 14 | 165| 14 | 166| 14 | 167| 14 | 168| 14
169| 14 | 170| 14 | 171| 14 | 172| 14 | 173| 14 | 174| 14 | 175| 14 | 176| 14
177| 14 | 178| 14 | 179| 14 | 180| 14 | 181| 14 | 182| 14 | 183| 14 | 184| 14
185| 14 | 186| 14 | 187| 14 | 188| 14 | 189| 14 | 190| 14 | 191| 14 | 192| 14
193| 14 | 194| 0 | 195| 0 | 196| 14 | 197| 14 | 198| 14 | 199| 14 | 200| 14
201| 14 | 202| 14 | 203| 14 | 204| 14 | 205| 14 | 206| 14 | 207| 14 | 208| 14
209| 14 | 210| 14 | 211| 14 | 212| 14 | 213| 14 | 214| 14 | 215| 14 | 216| 14
217| 14 | 218| 14 | 219| 14 | 220| 14 | 221| 14 | 222| 14 | 223| 14 | 224| 14
225| 14 | 226| 14 | 227| 14 | 228| 14 | 229| 14 | 230| 14 | 231| 14 | 232| 14
233| 14 | 234| 14 | 235| 14 | 236| 14 | 237| 14 | 238| 14 | 239| 14 | 240| 14
241| 14 | 242| 14 | 243| 14 | 244| 14 | 245| 14 | 246| 14 | 247| 14 | 248| 14
249| 14 | 250| 14 | 251| 14 | 252| 14 | 253| 14 | 254| 14 | 255| 14 | 256| 14
257| 14 | 258| 14 | 259| 14 | 260| 14 | 261| 14 | 262| 14 | 263| 13 | 264| 14
265| 14 | 266| 14 | 267| 14 | 268| 13 | 269| 14 | 270| 14 | 271| 14 | 272| 14
273| 14 | 274| 14 | 275| 14 | 276| 14 | 277| 14 | 278| 14 | 279| 14 | 280| 14
281| 14 | 282| 14 | 283| 14 | 284| 14 | 285| 14 | 286| 14 | 287| 14 | 288| 14
289| 14 | 290| 13 | 291| 14 | 292| 14 | 293| 14 | 294| 14 | 295| 14 | 296| 14
297| 14 | 298| 14 | 299| 14 | 300| 14 | 301| 14 | 302| 14 | 303| 14 | 304| 14
305| 14 | 306| 14 | 307| 14 | 308| 14 | 309| 14 | 310| 14 | 311| 14 | 312| 14
313| 14 | 314| 14 | 315| 14 | 316| 14 | 317| 14 | 318| 14 | 319| 14 | 320| 14
321| 13 | 322| 0 | 323| 0 | 324| 14 | 325| 14 | 326| 14 | 327| 14 | 328| 14
329| 14 | 330| 14 | 331| 14 | 332| 14 | 333| 14 | 334| 14 | 335| 14 | 336| 14
337| 13 | 338| 14 | 339| 14 | 340| 14 | 341| 14 | 342| 14 | 343| 14 | 344| 14
345| 14 | 346| 14 | 347| 14 | 348| 14 | 349| 14 | 350| 14 | 351| 13 | 352| 14
353| 14 | 354| 14 | 355| 14 | 356| 14 | 357| 14 | 358| 14 | 359| 14 | 360| 14
361| 14 | 362| 14 | 363| 14 | 364| 14 | 365| 14 | 366| 14 | 367| 14 | 368| 14
369| 14 | 370| 14 | 371| 14 | 372| 14 | 373| 13 | 374| 14 | 375| 14 | 376| 14
377| 14 | 378| 14 | 379| 14 | 380| 14 | 381| 14 | 382| 14 | 383| 14 | 384| 14
385| 14 | 386| 14 | 387| 14 | 388| 13 | 389| 14 | 390| 14 | 391| 14 | 392| 14
393| 14 | 394| 14 | 395| 14 | 396| 14 | 397| 14 | 398| 14 | 399| 14 | 400| 14
401| 14 | 402| 14 | 403| 14 | 404| 13 | 405| 14 | 406| 14 | 407| 14 | 408| 14
409| 13 | 410| 14 | 411| 14 | 412| 13 | 413| 14 | 414| 14 | 415| 14 | 416| 13
417| 14 | 418| 14 | 419| 14 | 420| 14 | 421| 14 | 422| 14 | 423| 14 | 424| 14
425| 14 | 426| 14 | 427| 14 | 428| 14 | 429| 14 | 430| 14 | 431| 14 | 432| 14
433| 14 | 434| 14 | 435| 14 | 436| 13 | 437| 14 | 438| 14 | 439| 14 | 440| 14
441| 14 | 442| 14 | 443| 14 | 444| 13 | 445| 14 | 446| 14 | 447| 14 | 448| 13
449| 14 | 450| 0 | 451| 0 | 452| 14 | 453| 14 | 454| 13 | 455| 14 | 456| 14
457| 14 | 458| 13 | 459| 14 | 460| 14 | 461| 13 | 462| 14 | 463| 14 | 464| 14
465| 14 | 466| 14 | 467| 14 | 468| 14 | 469| 14 | 470| 14 | 471| 13 | 472| 13
473| 14 | 474| 14 | 475| 14 | 476| 14 | 477| 14 | 478| 14 | 479| 13 | 480| 14
481| 14 | 482| 14 | 483| 14 | 484| 14 | 485| 14 | 486| 14 | 487| 13 | 488| 14
489| 14 | 490| 14 | 491| 14 | 492| 14 | 493| 14 | 494| 13 | 495| 14 | 496| 14
497| 13 | 498| 14 | 499| 14 | 500| 14 | 501| 14 | 502| 14 | 503| 13 | 504| 14
505| 14 | 506| 14 | 507| 14 | 508| 13 | 509| 14 | 510| 14 | 511| 14 | 512| 13
```

## < Gainalloc>

```

VDSL (show)>scstatussegment 1 gainalloc
SCStatusSegmentGainAlloc of Line 1 : Tone No.IGain
110.78125 210.78711 310.80859 410.81055 511.10352 610.80859 710.80859 810.79297
911.09961 1011.10352 1111.09180 1210.75586 1311.07227 1410.78125 1510.78320 1610.79492
1710.79297 1810.78711 1910.78906 2010.79688 2110.79883 2210.79883 2310.78125 2410.78516
2510.75391 2611.08594 2711.07617 2810.78516 2911.08594 3010.80469 3110.75195 3210.79688
3310.75000 3410.75000 3511.07813 3610.75000 3711.02539 3811.10352 3910.79883 4010.79688
4111.09375 4210.75391 4311.09375 4410.75000 4511.10156 4611.09375 4711.01953 4811.08594
4911.10156 5010.78320 5111.10352 5210.79297 5310.75000 5411.09961 5510.79688 5610.75586
5710.75000 5811.09180 5911.07813 6011.08203 6110.75000 6211.04102 6310.80273 6410.75391
6511.04883 6611.07813 6711.01172 6811.08594 6910.75000 7010.75586 7111.09961 7211.01172
7310.75000 7410.75000 7510.75000 7611.04688 7710.75391 7810.75391 7910.79297 8010.81250
8111.09180 8210.75195 8311.07617 8411.09766 8511.10156 8610.79883 8711.03516 8811.08984
8910.79688 9010.78320 9110.79688 9210.75781 9311.08203 9410.78906 9510.80273 9611.07617
9710.81055 9810.78711 9910.80273 10011.09180 10111.07617 10210.78125 10310.80273 10411.07227
10511.09180 10610.79492 10711.04688 10811.07813 10910.78711 11011.07813 11111.08984 11211.03516
11310.75000 11410.75000 11511.09570 11610.78516 11711.03320 11810.75000 11910.79297 12011.01172
12111.07617 12211.00586 12310.78320 12410.75000 12511.03516 12611.07813 12710.78516 12811.00586
12911.08008 13011.00977 13111.05469 13210.75000 13311.07813 13411.09766 13510.78320 13610.78125
13711.08598 13810.78906 13911.07422 14010.78320 14111.10352 14211.01953 14310.79297 14410.75000
14511.09961 14611.06641 14711.07813 14810.78320 14911.07813 15011.09766 15111.08594 15211.04688
15311.08203 15411.06836 15511.07422 15611.06641 15711.03711 15810.75000 15910.75000 16010.75000
16110.94531 16210.94141 16310.95703 16410.97656 16510.96484 16610.99023 16710.95117 16810.97852
16910.96289 17010.99414 17110.96484 17210.97656 17310.98828 17410.97461 17510.98828 17610.99414
17711.02148 17811.03125 17911.00000 18010.96484 18110.98438 18210.97656 18310.97461 18410.98828
18510.97266 18610.99219 18711.00781 18811.03320 18911.00195 19011.01758 19111.00391 19211.01563
19311.00586 19410.75000 19510.75000 19610.99219 19710.97266 19810.98242 19910.97656 20011.00000
20111.00781 20210.98242 20311.00391 20410.99414 20511.02344 20610.99219 20711.00000 20810.99609
20910.99023 21011.01563 21110.95117 21210.99805 21310.98438 21411.00000 21511.01172 21610.96680
21710.98828 21811.00000 21911.04688 22011.03125 22111.05273 22210.99414 22311.04688 22411.05469
22511.01172 22610.97461 22711.03125 22810.98438 22910.99414 23011.01563 23111.00977 23210.98633
23311.03320 23410.99023 23511.01367 23610.99609 23710.96484 23811.02734 23911.00195 24010.97461
24111.00781 24211.00977 24310.98828 24411.01563 24510.99023 24610.98828 24711.04102 24810.98828
24911.00195 25011.00391 25110.99805 25211.01953 25310.99414 25411.01758 25511.02148 25611.00977
25711.01758 25811.02930 25911.00195 26011.02539 26110.97461 26210.98828 26310.75000 26411.03516
26511.01953 26611.01758 26711.00977 26810.75000 26911.00195 27010.97852 27111.00000 27211.01367
27310.98633 27411.05469 27510.97266 27611.01367 27711.00781 27811.02930 27911.00781 28010.98633
28111.03711 28211.01172 28310.96875 28410.99219 28511.04102 28611.02734 28711.02539 28811.03516
28911.01172 29010.75000 29111.04102 29211.02148 29311.00391 29411.04102 29511.01367 29611.00391
29710.99805 29810.99609 29911.00586 30011.01758 30110.99414 30211.02148 30311.01758 30411.03320
30511.00586 30611.04297 30711.02734 30811.07227 30911.02344 31011.03125 31111.01367 31211.04102
31311.02930 31411.02344 31511.03320 31610.97461 31711.00195 31811.00195 31911.02148 32011.03906
32110.75000 32210.75000 32310.75000 32411.05078 32511.00195 32611.03125 32711.00586 32811.04297
32911.02930 33011.03125 33111.02734 33211.02148 33311.02344 33411.01758 33511.02148 33611.04102
33710.75391 33811.01758 33911.00781 34011.04883 34111.01172 34211.04688 34311.01367 34411.04688
34511.04688 34611.00781 34711.02930 34811.08203 34911.02930 35011.02148 35110.75000 35211.09961
35311.02148 35411.02148 35511.04688 35611.07422 35711.02930 35811.03516 35911.04102 36011.03320
36111.03516 36211.08594 36311.01758 36411.03516 36511.04492 36611.00781 36711.05469 36811.06836
36911.07227 37011.03516 37111.02930 37211.04688 37310.75000 37411.05469 37511.03320 37611.01758
37711.01953 37811.02930 37911.04883 38011.03125 38110.99219 38211.02930 38311.00781 38411.04297
38511.04102 38611.05273 38711.05078 38810.75000 38911.07227 39011.02539 39111.01367 39211.05078
39310.99414 39411.03516 39511.03320 39611.03320 39711.04688 39811.02930 39911.02930 40011.06836
40111.05469 40211.00977 40311.08203 40410.75000 40511.03906 40611.07617 40711.04102 40811.01758
40910.75195 41011.02148 41111.08594 41210.75000 41311.03320 41411.04688 41511.07227 41610.75195
41711.04688 41811.07227 41911.04883 42011.01758 42111.03516 42211.04492 42311.04688 42411.05469
42511.04688 42611.07617 42711.03320 42811.02930 42911.03906 43011.09375 43111.01953 43211.02734
43311.06445 43411.03320 43511.05469 43610.75000 43711.02930 43811.03125 43911.07031 44011.06641
44111.02734 44211.08594 44311.02539 44410.75195 44511.05469 44611.02539 44711.03125 44810.77539
44911.06641 45010.75000 45110.75000 45211.08008 45311.07227 45410.75195 45511.04883 45611.07617
45711.02930 45811.05078 45911.07617 46011.06641 46110.75195 46211.08203 46311.07227 46411.05078
46511.01172 46611.08984 46711.08203 46811.08594 46911.00977 47011.05078 47110.75000 47210.75000
47311.04492 47411.04492 47511.07227 47611.07227 47711.03711 47811.02930 47910.75000 48011.03320
48111.02734 48211.05664 48311.06641 48411.04883 48511.04102 48611.02344 48710.75000 48811.06641
48911.06836 49011.04102 49111.04102 49211.07813 49311.04883 49410.75000 49511.03906 49611.05078
49710.75000 49811.07031 49911.08398 50011.08203 50111.07813 50211.01758 50310.75000 50411.06836
50511.01758 50611.04883 50711.08008 50810.75000 50911.07617 51011.06641 51111.07617 51210.75000

```

## 4.1.12 pmlineinitcurr : Show PMLineInitCurrTable

Usage: cmd <portid>

```

VDSL (show)>pmlineinitcurr 1
xds12PMLineInitCurrTable of Line 1:
Value Description
15M valid intervals 10
15M invalid intervals 10
15M elapsed seconds 1709 (seconds)
15M count of full initializations 10
15M count of failed full initializations 10
1Day valid intervals 10
1Day invalid intervals 10
1Day elapsed seconds 185308 (seconds)
1Day count of full initializations 10
1Day count of failed full initializations 10

```

## 4.1.13 line-template :Show Line Template profile names or show detail information of a specified profile

Usage: cmd <profile\_name>

```

VDSL (show)>line-template
Usage: cmd <profile_name>
xDSL Line Template:
DEFVAL
user1
VDSL (show)>line-template DEFVAL
xDSL Line Template Config Tables: DEFVAL
-----
LineProfile :DEFVAL
ChannelProfile:DEFVAL

```

#### 4.1.14 line-profile : Show Line Profile names or show detail information of a specified profile

Usage: cmd <profile\_name>

```

VDSL (show)>line-profile
Usage: cmd <profile_name>
xDSL Line Profile:
DEFVAL
user1
VDSL (show)>line-profile DEFVAL
xDSL Line Profile Config Tables: DEFVAL

```

|                   | Value                                     | Description                                                              |
|-------------------|-------------------------------------------|--------------------------------------------------------------------------|
| SYS               | ICD_Default                               | System Profile Bandplan                                                  |
| BND               | AnnexA_D-32_EU-32                         | Band Profile                                                             |
| VNS               | DEFVAL                                    | Virtual Noise PSD                                                        |
| PSD               | DEFVAL                                    | Power Spectral Density                                                   |
| RFI               | DEFVAL                                    | Radio Frequency Interference                                             |
| DPB               | DEFVAL                                    | Downstream Power Backoff PSD                                             |
| profiles          | 130a 17a 12a 12b 8a 8b 8c 8d xDSL Profile |                                                                          |
| targetSnrMds      | 190                                       | Min Noise Margin the xTU-R receiver shall achieve(0.1dB)                 |
| targetSnrMUs      | 190                                       | Min Noise Margin the xTU-C receiver shall achieve(0.1dB)                 |
| maxSnrMds         | 1310                                      | Max Noise Margin the xTU-R receiver shall try to sustain(0.1dB)          |
| maxSnrMUs         | 1310                                      | Max Noise Margin the xTU-C receiver shall try to sustain(0.1dB)          |
| minSnrMds         | 130                                       | Min Noise Margin the xTU-R receiver shall tolerate(0.1dB)                |
| minSnrMUs         | 130                                       | Min Noise Margin the xTU-C receiver shall tolerate(0.1dB)                |
| led               | 1on                                       | Enable/Disable vdsl led                                                  |
| bitswap           | 1off                                      | Enable/Disable bit swapping                                              |
| handshakeTone     | 10                                        | Handshake tone mode                                                      |
| upboKLF           | 13                                        | UPBO force mode                                                          |
| upboPsdA0         | 14000                                     | UPBO Parameter A for band 0                                              |
| upboPsdB0         | 10                                        | UPBO Parameter B for band 0                                              |
| upboPsdA1         | 14000                                     | UPBO Parameter A for band 1                                              |
| upboPsdB1         | 10                                        | UPBO Parameter B for band 1                                              |
| upboPsdA2         | 14000                                     | UPBO Parameter A for band 2                                              |
| upboPsdB2         | 10                                        | UPBO Parameter B for band 2                                              |
| upboPsdA3         | 14000                                     | UPBO Parameter A for band 3                                              |
| upboPsdB3         | 10                                        | UPBO Parameter B for band 3                                              |
| dpboESL           | 10                                        | The electrical length of exchange to cabinet cable                       |
| dpboESCableModelA | 10                                        | E-side cable model parameter A                                           |
| dpboESCableModelB | 10                                        | E-side cable model parameter B                                           |
| dpboESCableModelC | 10                                        | E-side cable model parameter C                                           |
| dpboMus           | 10                                        | Reserved minimum usable PSD mask of exchange signals at remote site      |
| dpboFMin          | 132                                       | The lower bound on the DPBO frequency span                               |
| dpboFMax          | 1512                                      | The upper bound on the DPBO frequency span                               |
| raModeDs          | 12                                        | The mode of operation of a rate-adaptive xTU-C in the transmit direction |
| raModeUs          | 12                                        | The mode of operation of a rate-adaptive xTU-R in the transmit direction |
| raSnrMds          | 110                                       | Downstream up-shift Signal/Noise Margin                                  |
| raSnrMUs          | 110                                       | Upstream up-shift Signal/Noise Margin                                    |
| raUsTimeDs        | 13600                                     | Downstream up-shift time interval                                        |
| raUsTimeUs        | 13600                                     | Upstream up-shift time interval                                          |
| raDsrMds          | 110                                       | Downstream down-shift Signal/Noise Margin                                |
| raDsrMUs          | 110                                       | Upstream down-shift Signal/Noise Margin                                  |
| raDsTimeDs        | 13600                                     | Downstream down-shift time interval                                      |
| raDsTimeUs        | 13600                                     | Upstream down-shift time interval                                        |
| snrModeDs         | 11                                        | Virtual noise is active on the line in the downstream                    |
| snrModeUs         | 11                                        | Virtual noise is active on the line in the upstream                      |
| maxNomRtpDs       | 1145                                      | Maximum nominal aggregate transmit power in the downstream               |
| maxNomRtpUs       | 1145                                      | Maximum nominal aggregate transmit power in the upstream                 |

#### 4.1.15 chan-profile : Show Channel Profile names or show detail information of a specified profile

Usage: cmd <profile\_name>

```

VDSL (show)>chan-profile
Usage: cmd <profile_name>
xDSL Channel Profile:
DEFVAL
user1
VDSL (show)>chan-profile DEFVAL
xDSL Channel Profile Config Tables: DEFVAL

```

|                  | Value   | Description                                              |
|------------------|---------|----------------------------------------------------------|
| minDataRateDsCh1 | 1256    | Min Data Rate on Ds direction(kbps) CH1                  |
| minDataRateUsCh1 | 1256    | Min Data Rate on Us direction(kbps) CH1                  |
| maxDataRateDsCh1 | 1101064 | Max Data Rate on Ds direction(kbps) CH1                  |
| maxDataRateUsCh1 | 1101064 | Max Data Rate on Us direction(kbps) CH1                  |
| maxDelayDsCh1    | 18      | Max Interleave Delay on Ds direction(us) CH1             |
| maxDelayUsCh1    | 18      | Max Interleave Delay on Us direction(us) CH1             |
| minImpDsCh1      | 14      | Ds min impulse noise protection in 4.3125kHz(symbol) CH1 |
| minImpUsCh1      | 14      | Us min impulse noise protection in 4.3125kHz(symbol) CH1 |
| minImp8DsCh1     | 13      | Ds min impulse noise protection in 8.625kHz(symbol) CH1  |
| minImp8UsCh1     | 13      | Us min impulse noise protection in 8.625kHz(symbol) CH1  |

#### 4.1.16 alarm-template : Show Alarm Template names or show detail information of a specified profile

Usage: cmd <profile\_name>

```

VDSL (show)>alarm-template
Usage: cmd <profile_name>
xDSL Alarm Template:
DEFVAL
user1
VDSL (show)>alarm-template DEFVAL
xDSL Alarm Template Config Tables: DEFVAL

```

|                  |         |
|------------------|---------|
| LineAlarmProfile | :DEFVAL |
| ChanAlarmProfile | :DEFVAL |

#### 4.1.17 line-alarm-profile : Show Line Alarm Profile names or show detail information of a specified profile

Usage: cmd <profile\_name>

```

VDSL (show)>line-alarm-profile
Usage: cmd <profile_name>
xDSL Line Alarm Profile:
DEFVAL
user1
VDSL (show)>line-alarm-profile DEFVAL
xDSL Line Alarm Profile Config Tables: DEFVAL

```

|          | IValue | Description                                                                       |
|----------|--------|-----------------------------------------------------------------------------------|
| xtucFecs | 10     | A threshold for the Fecs counter in the current 15M interval on XTUC              |
| xtucEs   | 10     | A threshold for the Es counter in the current 15M interval on XTUC                |
| xtucSes  | 10     | A threshold for the Ses counter in the current 15M interval on XTUC               |
| xtucLoss | 10     | A threshold for the Loss counter in the current 15M interval on XTUC              |
| xtucUas  | 10     | A threshold for the Uas counter in the current 15M interval on XTUC               |
| xturFecs | 10     | A threshold for the Fecs counter in the current 15M interval on XTUR              |
| xturEs   | 10     | A threshold for the Es counter in the current 15M interval on XTUR                |
| xturSes  | 10     | A threshold for the Ses counter in the current 15M interval on XTUR               |
| xturLoss | 10     | A threshold for the Loss counter in the current 15M interval on XTUR              |
| xturUas  | 10     | A threshold for the Uas counter in the current 15M interval on XTUR               |
| fullInt  | 10     | A threshold for the count of failed full initializations in the current 15M inter |
| val      |        |                                                                                   |
| shrtInt  | 10     | A threshold for the count of failed short initializations in the current 15M inte |
| rval     |        |                                                                                   |

```

VDSL (show)>

```

#### 4.1.18 chan-alarm-profile : Show Channel Alarm Profile names or show detail information of a specified profile

Usage: cmd <profile\_name>

```

VDSL (show)>chan-alarm-profile
Usage: cmd <profile_name>
xDSL Channel Alarm Profile:
DEFVAL
user1
VDSL (show)>chan-alarm-profile DEFVAL
xDSL Channel Alarm Profile Config Tables: DEFVAL

```

|                    | IValue | Description                                                                         |
|--------------------|--------|-------------------------------------------------------------------------------------|
| cvThresXtuc        | 10     | A threshold for the coding violation counter in the current 15M interval on XTUC    |
| correctedThresXtuc | 10     | A threshold for the corrected code word counter in the current 15M interval on XTUC |
| cvThresXtur        | 10     | A threshold for the coding violation counter in the current 15M interval on XTUR    |
| correctedThresXtur | 10     | A threshold for the corrected code word counter in the current 15M interval on XTUR |

```

VDSL (show)>

```

#### 4.1.19 port : Show port of a specified profile

Usage: cmd

```

VDSL (show)>port
Port1 Active LineTemplate<DEFVAL>, AlarmTemplate<DEFVAL>

```

#### 4.1.20 virtual-noise : Show Virtual Noise names or show detail information of a specified profile

Usage: cmd <profile\_name>

```

VDSL (show)>virtual-noise
Supported Virtual Noise profile:
DEFVAL
CROSSTALK
VNS_WT115
VNS_80
VNS_90
VNS_100
VNS_110
VNS_120
User defined Virtual Noise profile:
user1
user2
VDSL (show)>virtual-noise DEFVAL
Virtual Noise Config Tables: DEFVAL

```

| index | VnDs_tone(4,3125kHz) | VnDs_level(dBm/Hz) | VnUs_tone(4,3125kHz) | VnUs_level(dBm/Hz) |
|-------|----------------------|--------------------|----------------------|--------------------|
| 1     | 1                    | -140.0000          | 1                    | -140.0000          |
| 2     | 31                   | -140.0000          | 31                   | -140.0000          |
| 3     | 32                   | -120.0000          | 32                   | -120.0000          |
| 4     | 6956                 | -120.0000          | 6956                 | -120.0000          |
| 5     | 0                    | -140.0000          | 0                    | -140.0000          |
| 6     | 0                    | -140.0000          | 0                    | -140.0000          |
| 7     | 0                    | -140.0000          | 0                    | -140.0000          |
| 8     | 0                    | -140.0000          | 0                    | -140.0000          |
| 9     | 0                    | -140.0000          | 0                    | -140.0000          |
| 10    | 0                    | -140.0000          | 0                    | -140.0000          |
| 11    | 0                    | -140.0000          | 0                    | -140.0000          |
| 12    | 0                    | -140.0000          | 0                    | -140.0000          |
| 13    | 0                    | -140.0000          | 0                    | -140.0000          |
| 14    | 0                    | -140.0000          | 0                    | -140.0000          |
| 15    | 0                    | -140.0000          | 0                    | -140.0000          |
| 16    | 0                    | -140.0000          | 0                    | -140.0000          |
| 17    | 0                    | -140.0000          | 0                    | -140.0000          |
| 18    | 0                    | -140.0000          | 0                    | -140.0000          |
| 19    | 0                    | -140.0000          | 0                    | -140.0000          |
| 20    | 0                    | -140.0000          | 0                    | -140.0000          |
| 21    | 0                    | -140.0000          | 0                    | -140.0000          |
| 22    | 0                    | -140.0000          | 0                    | -140.0000          |
| 23    | 0                    | -140.0000          | 0                    | -140.0000          |
| 24    | 0                    | -140.0000          | 0                    | -140.0000          |
| 25    | 0                    | -140.0000          | 0                    | -140.0000          |
| 26    | 0                    | -140.0000          | 0                    | -140.0000          |
| 27    | 0                    | -140.0000          | 0                    | -140.0000          |
| 28    | 0                    | -140.0000          | 0                    | -140.0000          |
| 29    | 0                    | -140.0000          | 0                    | -140.0000          |
| 30    | 0                    | -140.0000          | 0                    | -140.0000          |
| 31    | 0                    | -140.0000          | 0                    | -140.0000          |
| 32    | 0                    | -140.0000          | 0                    | -140.0000          |

#### 4.1.21 dpbopsd : Show DpboPsd names or show detail information of a specified profile

Usage: cmd <profile\_name>

```
VDSL (show)>dpbopsd
Supported DPBO PSD profile:
DEFVAL
ANSI
EX_ANXI
ETSI
EX_ETSI
PLAT
ADSL2PLUS
CO
DT
User defined DPBO PSD profile:
user1
user2
VDSL (show)>dpbopsd DEFVAL
DpboPsd Config Tables: DEFVAL
```

| index | tone(4,3125kHz) | noise_level(dBm/Hz) |
|-------|-----------------|---------------------|
| 1     | 0               | -34,0000            |
| 2     | 6956            | -34,0000            |
| 3     | 0               | 0,0000              |
| 4     | 0               | 0,0000              |
| 5     | 0               | 0,0000              |
| 6     | 0               | 0,0000              |
| 7     | 0               | 0,0000              |
| 8     | 0               | 0,0000              |
| 9     | 0               | 0,0000              |
| 10    | 0               | 0,0000              |
| 11    | 0               | 0,0000              |
| 12    | 0               | 0,0000              |
| 13    | 0               | 0,0000              |
| 14    | 0               | 0,0000              |
| 15    | 0               | 0,0000              |
| 16    | 0               | 0,0000              |
| 17    | 0               | 0,0000              |
| 18    | 0               | 0,0000              |
| 19    | 0               | 0,0000              |
| 20    | 0               | 0,0000              |
| 21    | 0               | 0,0000              |
| 22    | 0               | 0,0000              |
| 23    | 0               | 0,0000              |
| 24    | 0               | 0,0000              |
| 25    | 0               | 0,0000              |
| 26    | 0               | 0,0000              |
| 27    | 0               | 0,0000              |
| 28    | 0               | 0,0000              |
| 29    | 0               | 0,0000              |
| 30    | 0               | 0,0000              |
| 31    | 0               | 0,0000              |
| 32    | 0               | 0,0000              |

#### 4.1.22 rfi-bands : Show RfiBands names or show detail information of a specified profile

Usage: cmd <profile\_name>

```
VDSL (show)>rfl-bands
Supported RFI Band profile:
DEFVAL
WT115_GMDSS
WT115_TR100
WT115_ERUOPE
IN_993.2
TEST
TEST1
User defined RFI Band profile:
user1
user2
VDSL (show)>rfl-bands DEFVAL
RFI Config Tables: DEFVAL
```

| Bands index | start tone(4,3125kHz) | end tone(4,3125kHz) |
|-------------|-----------------------|---------------------|
| 1           | 0                     | 0                   |
| 2           | 0                     | 0                   |
| 3           | 0                     | 0                   |
| 4           | 0                     | 0                   |
| 5           | 0                     | 0                   |
| 6           | 0                     | 0                   |
| 7           | 0                     | 0                   |
| 8           | 0                     | 0                   |
| 9           | 0                     | 0                   |
| 10          | 0                     | 0                   |
| 11          | 0                     | 0                   |
| 12          | 0                     | 0                   |
| 13          | 0                     | 0                   |
| 14          | 0                     | 0                   |
| 15          | 0                     | 0                   |
| 16          | 0                     | 0                   |

#### 4.1.23 sprofile : Show system profile names

Usage: cmd <options> <profile\_name>

Options:SYS,BND,VNS,PSD,RFI,DPB,ALL

```
VDSL (show)>sprofile
Usage: cmd <options> <profile_name>
options:SYS,BND,VNS,PSD,RFI,DPB,ALL
VDSL (show)>sprofile SYS
Supported System profile:
CO_Default
CPE_Default
VDSL (show)>sprofile BND
Supported Band profile:
AnnexA_D-32_EU-32
AnnexA_D-64_EU-64
AnnexA_D-128_EU-128
AnnexB_997_997-M1x-A-7
AnnexB_997_997-M1x-M-8
AnnexB_997_997-M1x-M
AnnexB_997_997-M2x-M-8
AnnexB_997_997-M2x-A
AnnexB_997_997E17-M2x-A
AnnexB_997_997E30-M2x-NUS0
AnnexB_998_998-M1x-A
AnnexB_998_998-M1x-B
AnnexB_998_998-M1x-NUS0
AnnexB_998_998-M2x-A
AnnexB_998_998-M2x-M
AnnexB_998_998-M2x-B
AnnexB_998_998-M2x-NUS0
AnnexB_998_998E17-M2x-NUS0
AnnexB_998_998E17-M2x-NUS0-M
AnnexB_998_998E17-M2x-NUS0-M
AnnexB_998_998E17-M2x-A
AnnexB_998_998E17-M2x-B
AnnexB_998_998E30-M2x-NUS0
AnnexB_998_998E30-M2x-NUS0-M
AnnexB_998_998E30-M2x-NUS0-M
AnnexB_998_998E30-M2x-NUS0-A
AnnexC_POTS_25-138_b
AnnexC_POTS_25-276_b
AnnexC_TCM-ISDN
VDSL (show)>sprofile VNS
Supported Virtual Noise profile:
DEFVAL
CROSSTALK
VNS_WT115
VNS_80
VNS_90
VNS_100
VNS_110
VNS_120
VDSL (show)>sprofile PSD
Supported PSD profile:
DEFVAL
VDSL (show)>sprofile RFI
Supported RFI Band profile:
DEFVAL
WT115_GMDS
WT115_TR100
WT115_ERUOPE
IN_993.2
TEST
TEST1
VDSL (show)>sprofile DPB
Supported DPB PSD profile:
DEFVAL
ANSI
EX_ANXI
ETSI
EX_ETSI
PLAT
ADSL2PLUS
CO
DT
VDSL (show)>
```

## 5 VDSL2 Commands Utility

- 1.df - Download firmware from file, <portid> <firmware\_path>

Usage: cmd <portid> <firmware\_path>

- 2.dpf - Download firmware from package file, <portid> <firmwareid>  
[<profileid>]

Usage: cmd <portid> <firmwareid> [<profileid>]

[portid: 1 - 1]

[firmwareid: OT=1, RT=2, 0 to skip]

[profileid: 1 - 8, 0 to skip]

- 3.bdset – Board settings test, <testid> <protid> [<count>]

Usage: cmd <testid> [<portid> [<count>]], port id start from 1

<testid>:

1: Write AFE register

2: Random connect/disconnect test

3: Temporary CRC test

4: Reset port always high

5: Reset port always low

6: Reset port

- 4.portop - Port operations, <testid> <portid>

Usage: cmd <testid> <portid>, port id start from 1

<testid>:

1: Connect port

2: Disconnect port

3: Enable pacing signal

4: Disable pacing signal

5: Enable port

6: Disable port

7: Init modem

8: Shutdown modem(Shutdown chip)

9: Reset modem

- 5.firmver - Show running firmware version and OT/RT indicator, <portid>

Usage:cmd <portid>

level - Set debug level, <debug\_level>

Usage:cmd <debug\_level> ex: cmd 0x00000020

- 6. mem - Memory read/write test, <testid> <portid> <memtype> [<address-hex>  
<count-hex> [<data-hex>]]

Usage: cmd <testid> <portid> <memtype> [<address-hex> <count-hex>

[<data-hex>]]

- i. Read memory test. ex: ut mem 1 1 0 ff 0a
- ii. Write memory test. ex: ut mem 2 1 0 ff 0a 1f
- iii. Memory random reading test. <testid> <maxport> <count-hex>.  
ex: ut mem 3 1 100000
- iv. Read award memory test(<memtype> will be ignored here).  
ex: ut mem 4 1 0 ff 0a
- v. Write award memory test(<memtype> will be ignored here).  
ex: ut mem 5 1 0 ff 0a 1f
- vi. Read remote memory test. ex: ut mem 1 1 0 ff 0a  
[memtype: x=0, y=1, p=2]

➤ 7. phystatus - Get MT\_OPSTATE\_\* status, <portid>      Usage:cmd <portid>

## 6 Depend on DSLCLI commands: cfgmgr

~\$cfgmgr -h

-s : Show config file

-f : config file

-r "variable" : Show variable

-w "variable" : Write variable

-p "patch\_file\_name" : Patch board.conf from file

-d "variable" : Delete variable

-h : Print help file

Build time=031110-162717

-f:

Setting board.conf path if you won't use default path(default:/etc/board.conf)

Reading single variable:

~\$cfgmgr -r VARIABLE

Reading multi variables:

~\$cfgmgr -r VARIABLE1,VARIABLE2,VARIABLE3,.....

Writing single variable:

~\$cfgmgr -w VARIABLE=VALUE

Writing multi variables:

~\$cfgmgr -w VARIABLE1=VALUE1,VARIABLE2=VALUE2,VARIABLE3=VALUE3,....

Deleting single variable

~\$cfgmgr -d VARIABLE

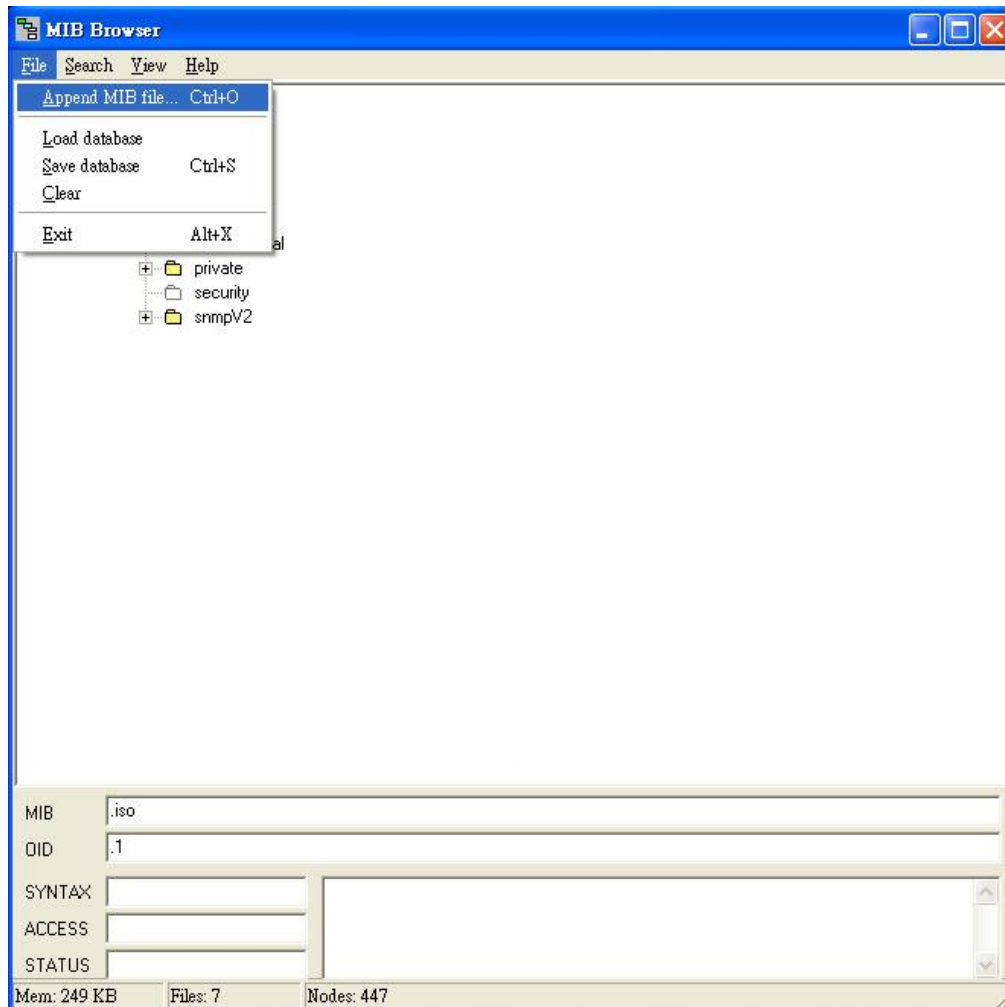
Deleting multi variables:

~\$cfgmgr -d VARIABLE1,VARIABLE2,VARIABLE3,.....

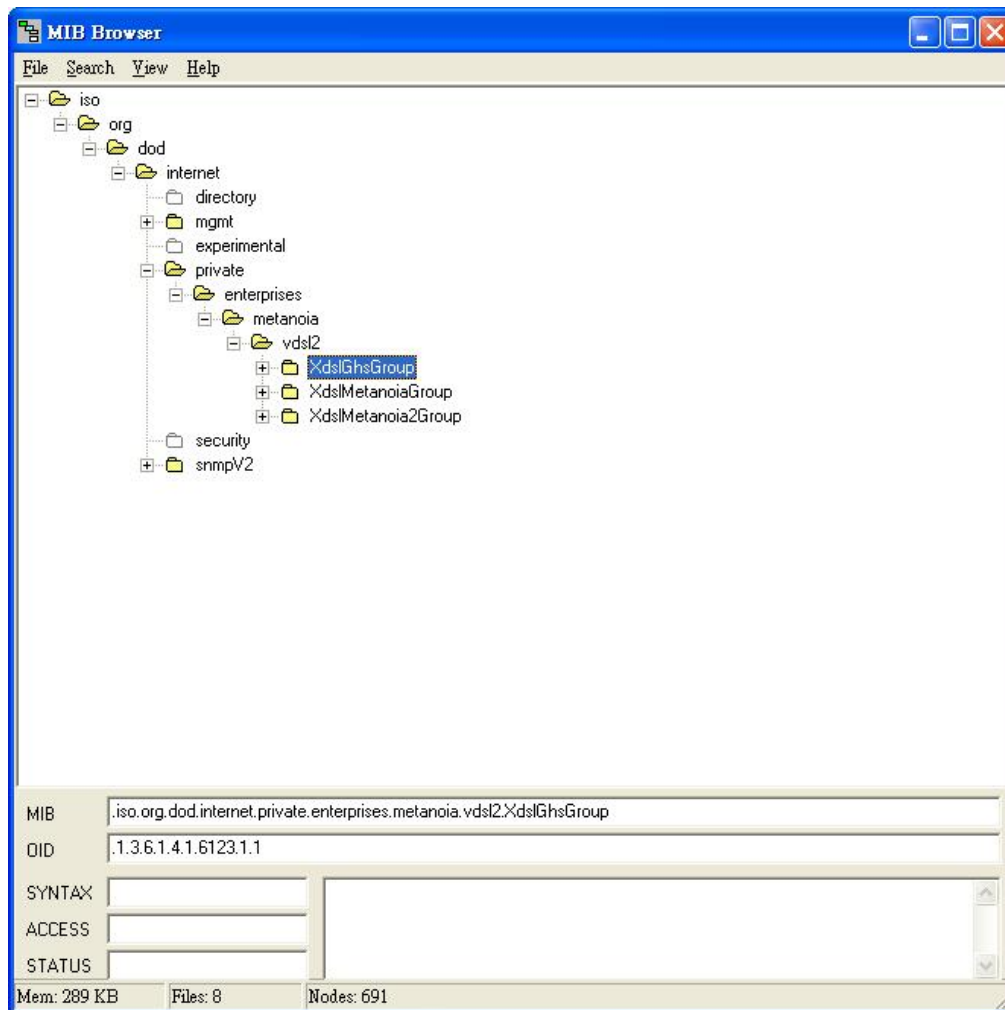
## 7 SNMP and Mib Browser

Step by step on Mib Browser setting:

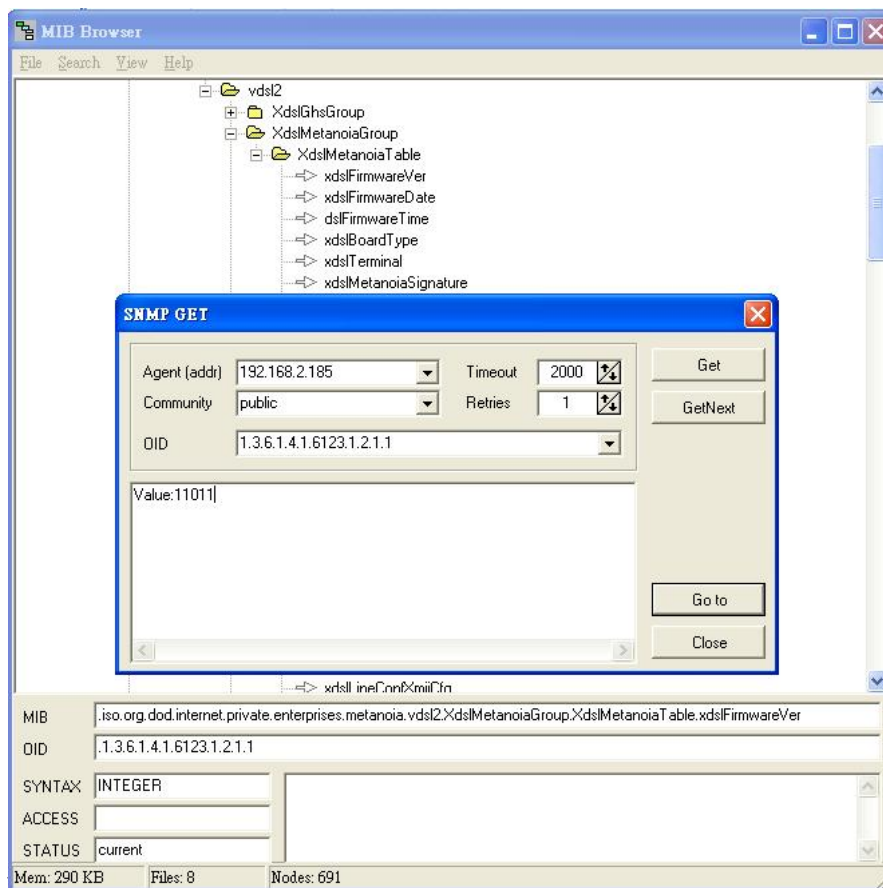
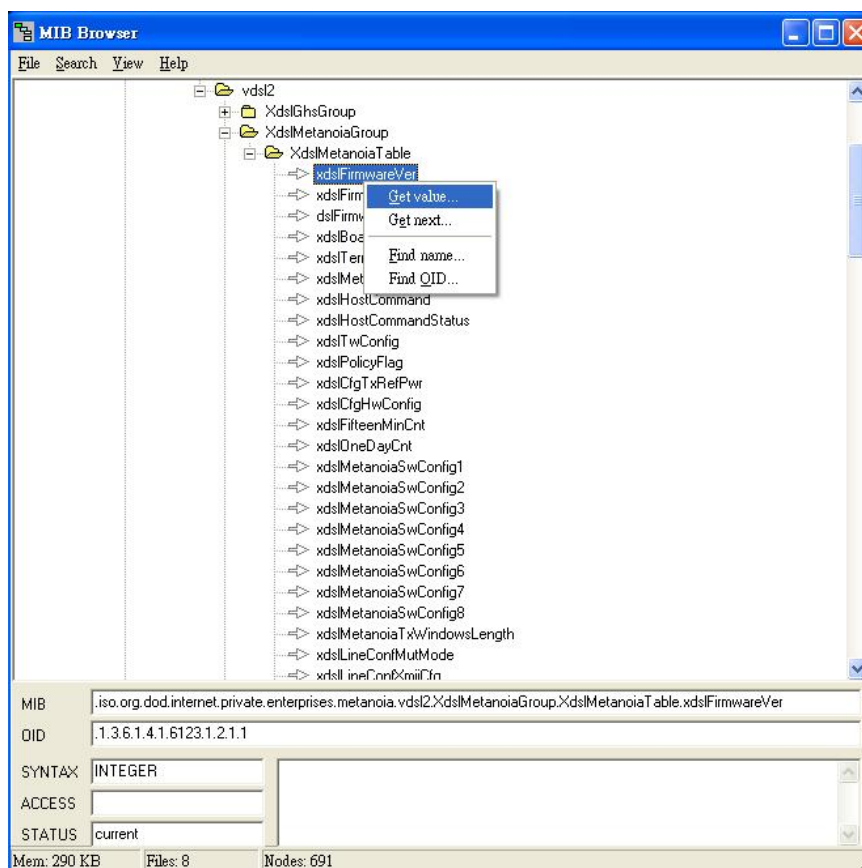
1. Execute “**MibBrowser.exe**” and append to MIB file “**Metanoia-vdsl.mib**”



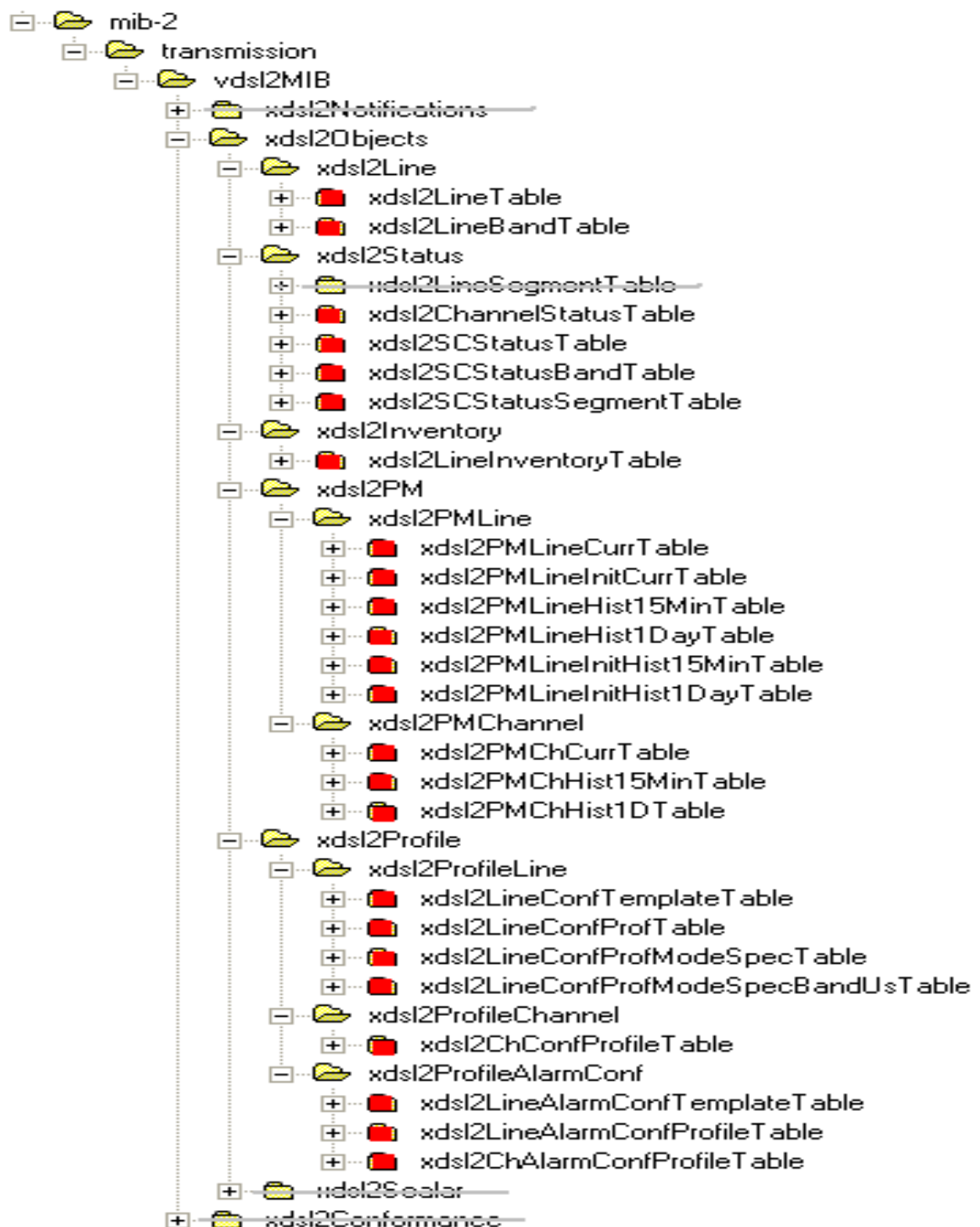
## 2. Metanoia private mib is at .1.3.6.1.4.1.6123.1.x



## 3. Get value



## Supported standard RFC-5650



Note: Red square is supported mib table

Gray line is not supported mib table

## MIB Index:

The screenshot shows the 'SNMP GET' dialog box. The 'OID' field is highlighted with a red circle and an arrow pointing to it from the text 'Added index at here'. The dialog includes fields for Agent (addr), Community, Timeout, Retries, and OID. On the right, there are buttons for Get, GetNext, Go to, and Close.

### \*Added index manually

Index List:

1.xdsl2LineTable:INDEX { ifIndex }  
ifIndex:Port number(1~24)

2.xdsl2LineBandTable:INDEX { ifIndex, xdsl2LineBand }  
xdsl2LineBand:(1~11)

3.xdsl2ChannelStatusTable:INDEX { ifIndex, xdsl2ChStatusUnit }  
ifIndex:Port number(1~24)  
xdsl2ChStatusUnit (1~4 CO:1 CPE:3)

4.xdsl2SCStatusTable:INDEX { ifIndex, xdsl2SCStatusDirection }  
ifIndex:Port number(1~24)  
xdsl2SCStatusDirection(1~2 upstream/downstream)

5.xdsl2SCStatusBandTable:INDEX { ifIndex, xdsl2SCStatusBand }  
xdsl2SCStatusBand(1~11)

6.xdsl2SCStatusSegmentTable:INDEX  
{ifIndex,xdsl2SCStatusDirection,xdsl2SCStatusSegment}

ifIndex:Port number(1~24)

xdsl2SCStatusDirection(1~2 upstream/downstream)

xdsl2SCStatusSegment Not supported

**7.xdsl2LineInventoryTable:INDEX** { ifIndex, xdsl2LInvUnit }

ifIndex:Port number(1~24)

xdsl2LInvUnit(1~2 CO:1 CPE:2)

**8.xdsl2PMLineCurrTable:INDEX** { ifIndex, xdsl2PMLCurrUnit }

ifIndex:Port number(1~24)

xdsl2PMLCurrUnit(1~2 CO:1 CPE:2)

**9.xdsl2PMLineInitCurrTable:INDEX** { ifIndex }

ifIndex:Port number(1~24)

**10.xdsl2PMLineHist15MinTable:INDEX**

{ ifIndex,xdsl2PMLHist15MUnit,xdsl2PMLHist15MInterval }

ifIndex:Port number(1~24)

xdsl2PMLHist15Munit: Not supported

xdsl2PMLHist15Minterval: Not supported

**11.xdsl2PMLineHist1DayTable:INDEX**

{ ifIndex,xdsl2PMLHist1DUnit,xdsl2PMLHist1DInterval }

ifIndex:Port number(1~24)

xdsl2PMLHist1Dunit(1~2 CO:1 CPE:2)

xdsl2PMLHist1Dinterval: Not supported

**\*12.xdsl2PMLineInitHist15MinTable:INDEX**

{ ifIndex,xdsl2PMLInitHist15MInterval }

ifIndex:Port number(1~24)

xdsl2PMLInitHist15Minterval:Not supported

**13.xdsl2PMLineInitHist1DayTable:INDEX**

{ ifIndex,xdsl2PMLInitHist1DInterval }

ifIndex:Port number(1~24)

xdsl2PMLInitHist1Dinterval: Not supported

**14.xdsl2PMChCurrTable:INDEX** { ifIndex, xdsl2PMChCurrUnit }

ifIndex:Port number(1~24)

xdsl2PMChCurrUnit(1~4 CO:1 CPE:3)

**15.xdsl2PMChHist15MinTable:INDEX**

{ ifIndex,xdsl2PMChHist15MUnit,xdsl2PMChHist15MInterval }

ifIndex:Port number(1~24)

xdsl2PMChHist15Munit(1~4 CO:1 CPE:3)

xdsl2PMChHist15Minterval:Not supported

**16.xdsl2PMChHist1DTable:INDEX**

{ ifIndex,xdsl2PMChHist1DUnit,xdsl2PMChHist1DInterval }

ifIndex:Port number(1~24)

xdsl2PMChHist1Dunit(1~4 CO:1 CPE:3)

xdsl2PMChHist1Dinterval:Not supported

**17.xdsl2LineConfTemplateTable:INDEX { xsdl2LConfTempTemplateName }**

xsdl2LconfTempTemplateName: Not Supported

**18.xdsl2LineConfProfTable:INDEX { xsdl2LConfProfProfileName }**

xsdl2LconfProfProfileName:Not Supported

**19.xdsl2LineConfProfModeSpecTable:INDEX**

{xsdl2LConfProfProfileName,xsdl2LConfProfXdslMode }

xsdl2LconfProfProfileName:Not Supported

xsdl2LconfProfXdslMode:Not supported

**20.xdsl2LineConfProfModeSpecBandUsTable:INDEX{ xsdl2LConfProfProfileName**

,xsdl2LConfProfXdslMode,xsdl2LConfProfXdslBandUs}

xsdl2LconfProfProfileName: Not Supported

xsdl2LconfProfXdslMode: Not Supported

xsdl2LconfProfXdslBandUs: Not Supported

**21.xdsl2ChConfProfileTable:INDEX { xsdl2ChConfProfProfileName }**

xsdl2ChConfProfProfileName:Not Supported

**22.xdsl2LineAlarmConfTemplateTable:INDEX**

{ xsdl2LAlarmConfTempTemplateName }

xsdl2LalarmConfTempTemplateName:Not Supported

**23.xdsl2LineAlarmConfProfileTable:INDEX** { xsdl2LineAlarmConfProfileName }  
xsdl2LineAlarmConfProfileName:Not Supported

**24.xdsl2ChAlarmConfProfileTable:INDEX** { xsdl2ChAlarmConfProfileName }  
xsdl2ChAlarmConfProfileName:Not Supported

## Appendix

### RFC5650 VDSL2-LINE-TC-MIB

.1.3.6.1.2.1.10  
    transmission(10) type=0

.1.3.6.1.2.1.10.251  
    vdsl2MIB(251) type=24

.1.3.6.1.2.1.10.251.0  
    xdsl2Notifications(0) type=0

.1.3.6.1.2.1.10.251.0.1  
    xdsl2LinePerfFECSThreshXtuc(1) type=21

.1.3.6.1.2.1.10.251.0.2  
    xdsl2LinePerfFECSThreshXtur(2) type=21

.1.3.6.1.2.1.10.251.0.3  
    xdsl2LinePerfESThreshXtuc(3) type=21

.1.3.6.1.2.1.10.251.0.4  
    xdsl2LinePerfESThreshXtur(4) type=21

.1.3.6.1.2.1.10.251.0.5  
    xdsl2LinePerfSESThreshXtuc(5) type=21

.1.3.6.1.2.1.10.251.0.6  
    xdsl2LinePerfSESThreshXtur(6) type=21

.1.3.6.1.2.1.10.251.0.7  
    xdsl2LinePerfLOSThreshXtuc(7) type=21

.1.3.6.1.2.1.10.251.0.8  
    xdsl2LinePerfLOSThreshXtur(8) type=21

.1.3.6.1.2.1.10.251.0.9  
    xdsl2LinePerfUASThreshXtuc(9) type=21

.1.3.6.1.2.1.10.251.0.10  
    xdsl2LinePerfUASThreshXtur(10) type=21

.1.3.6.1.2.1.10.251.0.11  
    xdsl2LinePerfCodingViolationsThreshXtuc(11) type=21

.1.3.6.1.2.1.10.251.0.12  
    xdsl2LinePerfCodingViolationsThreshXtur(12) type=21

.1.3.6.1.2.1.10.251.0.13  
    xdsl2LinePerfCorrectedThreshXtuc(13) type=21

.1.3.6.1.2.1.10.251.0.14  
    xdsl2LinePerfCorrectedThreshXtur(14) type=21

.1.3.6.1.2.1.10.251.0.15  
    xdsl2LinePerfFailedFullInitThresh(15) type=21

.1.3.6.1.2.1.10.251.0.16  
    xdsl2LinePerfFailedShortInitThresh(16) type=21

.1.3.6.1.2.1.10.251.0.17  
    xdsl2LineStatusChangeXtuc(17) type=21

.1.3.6.1.2.1.10.251.0.18  
    xdsl2LineStatusChangeXtur(18) type=21

.1.3.6.1.2.1.10.251.1  
    xdsl2Objects(1) type=0

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| .1.3.6.1.2.1.10.251.1.1        | xdsl2Line(1) type=0                                              |
| .1.3.6.1.2.1.10.251.1.1.1      | xdsl2LineTable(1) type=0                                         |
| .1.3.6.1.2.1.10.251.1.1.1.1    | xdsl2LineEntry(1) type=0                                         |
| .1.3.6.1.2.1.10.251.1.1.1.1.1  | xdsl2LineConfTemplate(1) type=2 tc=75 hint=255t                  |
| .1.3.6.1.2.1.10.251.1.1.1.1.2  | xdsl2LineConfFallbackTemplate(2) type=2 tc=75 hint=255t          |
| .1.3.6.1.2.1.10.251.1.1.1.1.3  | xdsl2LineAlarmConfTemplate(3) type=2 tc=75 hint=255t             |
| .1.3.6.1.2.1.10.251.1.1.1.1.4  | xdsl2LineCmndConfPmsf(4) type=3 tc=12                            |
| .1.3.6.1.2.1.10.251.1.1.1.1.5  | xdsl2LineCmndConfLdsf(5) type=3 tc=14                            |
| .1.3.6.1.2.1.10.251.1.1.1.1.6  | xdsl2LineCmndConfLdsfFailReason(6) type=3 tc=15                  |
| .1.3.6.1.2.1.10.251.1.1.1.1.7  | xdsl2LineCmndConfBpsc(7) type=3 tc=16                            |
| .1.3.6.1.2.1.10.251.1.1.1.1.8  | xdsl2LineCmndConfBpscFailReason(8) type=3 tc=17                  |
| .1.3.6.1.2.1.10.251.1.1.1.1.9  | xdsl2LineCmndConfBpscRequests(9) type=6                          |
| .1.3.6.1.2.1.10.251.1.1.1.1.10 | xdsl2LineCmndAutomodeColdStart(10) type=3 tc=53                  |
| .1.3.6.1.2.1.10.251.1.1.1.1.11 | xdsl2LineCmndConfReset(11) type=3 tc=18                          |
| .1.3.6.1.2.1.10.251.1.1.1.1.12 | xdsl2LineStatusActTemplate(12) type=2 tc=75 hint=255t            |
| .1.3.6.1.2.1.10.251.1.1.1.1.13 | xdsl2LineStatusXtuTransSys(13) type=12 tc=7                      |
| .1.3.6.1.2.1.10.251.1.1.1.1.14 | xdsl2LineStatusPwrMngState(14) type=3 tc=11                      |
| .1.3.6.1.2.1.10.251.1.1.1.1.15 | xdsl2LineStatusInitResult(15) type=3 tc=9                        |
| .1.3.6.1.2.1.10.251.1.1.1.1.16 | xdsl2LineStatusLastStateDs(16) type=3 tc=35                      |
| .1.3.6.1.2.1.10.251.1.1.1.1.17 | xdsl2LineStatusLastStateUs(17) type=3 tc=35                      |
| .1.3.6.1.2.1.10.251.1.1.1.1.18 | xdsl2LineStatusXtur(18) type=12 tc=36                            |
| .1.3.6.1.2.1.10.251.1.1.1.1.19 | xdsl2LineStatusXtuc(19) type=12 tc=36                            |
| .1.3.6.1.2.1.10.251.1.1.1.1.20 | xdsl2LineStatusAttainableRateDs(20) type=15<br>units=bits/second |
| .1.3.6.1.2.1.10.251.1.1.1.1.21 | xdsl2LineStatusAttainableRateUs(21) type=15<br>units=bits/second |

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| .1.3.6.1.2.1.10.251.1.1.1.1.22 | xdsl2LineStatusActPsdDs(22) type=16 units=0.1 dBm/Hz             |
| .1.3.6.1.2.1.10.251.1.1.1.1.23 | xdsl2LineStatusActPsdUs(23) type=16 units=0.1 dBm/Hz             |
| .1.3.6.1.2.1.10.251.1.1.1.1.24 | xdsl2LineStatusActAtpDs(24) type=16 units=0.1 dBm                |
| .1.3.6.1.2.1.10.251.1.1.1.1.25 | xdsl2LineStatusActAtpUs(25) type=16 units=0.1 dBm                |
| .1.3.6.1.2.1.10.251.1.1.1.1.26 | xdsl2LineStatusActProfile(26) type=12 tc=19                      |
| .1.3.6.1.2.1.10.251.1.1.1.1.27 | xdsl2LineStatusActLimitMask(27) type=12 tc=21                    |
| .1.3.6.1.2.1.10.251.1.1.1.1.28 | xdsl2LineStatusActUs0Mask(28) type=12 tc=23                      |
| .1.3.6.1.2.1.10.251.1.1.1.1.29 | xdsl2LineStatusActSnrModeDs(29) type=3 tc=44                     |
| .1.3.6.1.2.1.10.251.1.1.1.1.30 | xdsl2LineStatusActSnrModeUs(30) type=3 tc=44                     |
| .1.3.6.1.2.1.10.251.1.1.1.1.31 | xdsl2LineStatusElectricalLength(31) type=15 units=0.1 dB         |
| .1.3.6.1.2.1.10.251.1.1.1.1.32 | xdsl2LineStatusTssiDs(32) type=2 tc=34                           |
| .1.3.6.1.2.1.10.251.1.1.1.1.33 | xdsl2LineStatusTssiUs(33) type=2 tc=34                           |
| .1.3.6.1.2.1.10.251.1.1.1.1.34 | xdsl2LineStatusMrefPsdDs(34) type=2 tc=48                        |
| .1.3.6.1.2.1.10.251.1.1.1.1.35 | xdsl2LineStatusMrefPsdUs(35) type=2 tc=49                        |
| .1.3.6.1.2.1.10.251.1.1.1.1.36 | xdsl2LineStatusTrellisDs(36) type=3 tc=53                        |
| .1.3.6.1.2.1.10.251.1.1.1.1.37 | xdsl2LineStatusTrellisUs(37) type=3 tc=53                        |
| .1.3.6.1.2.1.10.251.1.1.1.1.38 | xdsl2LineStatusActualCe(38) type=15 units=N/32 samples           |
| .1.3.6.1.2.1.10.251.1.1.2      | xdsl2LineBandTable(2) type=0                                     |
| .1.3.6.1.2.1.10.251.1.1.2.1    | xdsl2LineBandEntry(1) type=0<br>INDEX { ifIndex, xsdl2LineBand } |
| .1.3.6.1.2.1.10.251.1.1.2.1.1  | xdsl2LineBand(1) type=3 tc=6                                     |
| .1.3.6.1.2.1.10.251.1.1.2.1.2  | xdsl2LineBandStatusLnAtten(2) type=15 units=0.1 dB               |
| .1.3.6.1.2.1.10.251.1.1.2.1.3  | xdsl2LineBandStatusSigAtten(3) type=15 units=0.1 dB              |
| .1.3.6.1.2.1.10.251.1.1.2.1.4  | xdsl2LineBandStatusSnrMargin(4) type=16 units=0.1 dB             |
| .1.3.6.1.2.1.10.251.1.2        | xdsl2Status(2) type=0                                            |

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|--------------------------------|--------------------------------------------------------|
| .1.3.6.1.2.1.10.251.1.2.1      | xdsl2LineSegmentTable(1) type=0                        |
| .1.3.6.1.2.1.10.251.1.2.1.1    | xdsl2LineSegmentEntry(1) type=0                        |
| .1.3.6.1.2.1.10.251.1.2.1.1.1  | xdsl2LineSegmentDirection(1) type=3 tc=5               |
| .1.3.6.1.2.1.10.251.1.2.1.1.2  | xdsl2LineSegment(2) type=15                            |
| .1.3.6.1.2.1.10.251.1.2.1.1.3  | xdsl2LineSegmentBitsAlloc(3) type=2 tc=47 units=bits   |
| .1.3.6.1.2.1.10.251.1.2.1.1.4  | xdsl2LineSegmentRowStatus(4) type=3 tc=59              |
| .1.3.6.1.2.1.10.251.1.2.2      | xdsl2ChannelStatusTable(2) type=0                      |
| .1.3.6.1.2.1.10.251.1.2.2.1    | xdsl2ChannelStatusEntry(1) type=0                      |
|                                | INDEX { ifIndex, xsdl2ChStatusUnit }                   |
| .1.3.6.1.2.1.10.251.1.2.2.1.1  | xdsl2ChStatusUnit(1) type=3 tc=4                       |
| .1.3.6.1.2.1.10.251.1.2.2.1.2  | xdsl2ChStatusActDataRate(2) type=15 units=bits/second  |
| .1.3.6.1.2.1.10.251.1.2.2.1.3  | xdsl2ChStatusPrevDataRate(3) type=15 units=bits/second |
| .1.3.6.1.2.1.10.251.1.2.2.1.4  | xdsl2ChStatusActDelay(4) type=15 units=milliseconds    |
| .1.3.6.1.2.1.10.251.1.2.2.1.5  | xdsl2ChStatusActInp(5) type=15 units=0.1 symbols       |
| .1.3.6.1.2.1.10.251.1.2.2.1.6  | xdsl2ChStatusInpReport(6) type=3 tc=37                 |
| .1.3.6.1.2.1.10.251.1.2.2.1.7  | xdsl2ChStatusNFec(7) type=15 units=bytes               |
| .1.3.6.1.2.1.10.251.1.2.2.1.8  | xdsl2ChStatusRFec(8) type=15 units=bits                |
| .1.3.6.1.2.1.10.251.1.2.2.1.9  | xdsl2ChStatusLSymb(9) type=15 units=bits               |
| .1.3.6.1.2.1.10.251.1.2.2.1.10 | xdsl2ChStatusIntlvDepth(10) type=15                    |
| .1.3.6.1.2.1.10.251.1.2.2.1.11 | xdsl2ChStatusIntlvBlock(11) type=15                    |
| .1.3.6.1.2.1.10.251.1.2.2.1.12 | xdsl2ChStatusLPath(12) type=15                         |
| .1.3.6.1.2.1.10.251.1.2.2.1.13 | xdsl2ChStatusAtmStatus(13) type=12 tc=38               |
| .1.3.6.1.2.1.10.251.1.2.2.1.14 | xdsl2ChStatusPtmStatus(14) type=12 tc=39               |
| .1.3.6.1.2.1.10.251.1.2.3      | xdsl2SCStatusTable(3) type=0                           |
| .1.3.6.1.2.1.10.251.1.2.3.1    | xdsl2SCStatusEntry(1) type=0                           |
|                                | INDEX { ifIndex, xsdl2SCStatusDirection }              |

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|--------------------------------|------------------------------------------------------------------------------------------------------|
| .1.3.6.1.2.1.10.251.1.2.3.1.1  | xdsl2SCStatusDirection(1) type=3 tc=5                                                                |
| .1.3.6.1.2.1.10.251.1.2.3.1.2  | xdsl2SCStatusLinScale(2) type=15                                                                     |
| .1.3.6.1.2.1.10.251.1.2.3.1.3  | xdsl2SCStatusLinScGroupSize(3) type=15                                                               |
| .1.3.6.1.2.1.10.251.1.2.3.1.4  | xdsl2SCStatusLogMt(4) type=15                                                                        |
| .1.3.6.1.2.1.10.251.1.2.3.1.5  | xdsl2SCStatusLogScGroupSize(5) type=15                                                               |
| .1.3.6.1.2.1.10.251.1.2.3.1.6  | xdsl2SCStatusQlnMt(6) type=15                                                                        |
| .1.3.6.1.2.1.10.251.1.2.3.1.7  | xdsl2SCStatusQlnScGroupSize(7) type=15                                                               |
| .1.3.6.1.2.1.10.251.1.2.3.1.8  | xdsl2SCStatusSnrMtime(8) type=15 units=symbols                                                       |
| .1.3.6.1.2.1.10.251.1.2.3.1.9  | xdsl2SCStatusSnrScGroupSize(9) type=15                                                               |
| .1.3.6.1.2.1.10.251.1.2.3.1.10 | xdsl2SCStatusAttainableRate(10) type=15 units=bits/second                                            |
| .1.3.6.1.2.1.10.251.1.2.3.1.11 | xdsl2SCStatusRowStatus(11) type=3 tc=59                                                              |
| .1.3.6.1.2.1.10.251.1.2.4      | xdsl2SCStatusBandTable(4) type=0                                                                     |
| .1.3.6.1.2.1.10.251.1.2.4.1    | xdsl2SCStatusBandEntry(1) type=0<br>INDEX { ifIndex, xsdl2SCStatusBand }                             |
| .1.3.6.1.2.1.10.251.1.2.4.1.1  | xdsl2SCStatusBand(1) type=3 tc=6                                                                     |
| .1.3.6.1.2.1.10.251.1.2.4.1.2  | xdsl2SCStatusBandLnAtten(2) type=15 units=0.1 dB                                                     |
| .1.3.6.1.2.1.10.251.1.2.4.1.3  | xdsl2SCStatusBandSigAtten(3) type=15 units=0.1 dB                                                    |
| .1.3.6.1.2.1.10.251.1.2.5      | xdsl2SCStatusSegmentTable(5) type=0                                                                  |
| .1.3.6.1.2.1.10.251.1.2.5.1    | xdsl2SCStatusSegmentEntry(1) type=0<br>INDEX {ifIndex, xsdl2SCStatusDirection, xsdl2SCStatusSegment} |
| .1.3.6.1.2.1.10.251.1.2.5.1.1  | xdsl2SCStatusSegment(1) type=15                                                                      |
| .1.3.6.1.2.1.10.251.1.2.5.1.2  | xdsl2SCStatusSegmentLinReal(2) type=2                                                                |
| .1.3.6.1.2.1.10.251.1.2.5.1.3  | xdsl2SCStatusSegmentLinImg(3) type=2                                                                 |
| .1.3.6.1.2.1.10.251.1.2.5.1.4  | xdsl2SCStatusSegmentLog(4) type=2 units=dB                                                           |
| .1.3.6.1.2.1.10.251.1.2.5.1.5  | xdsl2SCStatusSegmentQln(5) type=2 units=dBm/Hz                                                       |
| .1.3.6.1.2.1.10.251.1.2.5.1.6  | xdsl2SCStatusSegmentSnr(6) type=2 units=0.5 dB                                                       |

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.1.3.6.1.2.1.10.251.1.2.5.1.7  
xdsl2SCStatusSegmentBitsAlloc(7) type=2 tc=47 units=bits

.1.3.6.1.2.1.10.251.1.2.5.1.8  
xdsl2SCStatusSegmentGainAlloc(8) type=2

.1.3.6.1.2.1.10.251.1.3  
xdsl2Inventory(3) type=0

.1.3.6.1.2.1.10.251.1.3.1  
xdsl2LineInventoryTable(1) type=0

.1.3.6.1.2.1.10.251.1.3.1.1  
xdsl2LineInventoryEntry(1) type=0  
INDEX { ifIndex, xdsl2LInvUnit }

.1.3.6.1.2.1.10.251.1.3.1.1.1  
xdsl2LInvUnit(1) type=3 tc=4

.1.3.6.1.2.1.10.251.1.3.1.1.2  
xdsl2LInvG994VendorId(2) type=2

.1.3.6.1.2.1.10.251.1.3.1.1.3  
xdsl2LInvSystemVendorId(3) type=2

.1.3.6.1.2.1.10.251.1.3.1.1.4  
xdsl2LInvVersionNumber(4) type=2

.1.3.6.1.2.1.10.251.1.3.1.1.5  
xdsl2LInvSerialNumber(5) type=2

.1.3.6.1.2.1.10.251.1.3.1.1.6  
xdsl2LInvSelfTestResult(6) type=15

.1.3.6.1.2.1.10.251.1.3.1.1.7  
xdsl2LInvTransmissionCapabilities(7) type=12 tc=7

.1.3.6.1.2.1.10.251.1.4  
xdsl2PM(4) type=0

.1.3.6.1.2.1.10.251.1.4.1  
xdsl2PMLine(1) type=0

.1.3.6.1.2.1.10.251.1.4.1.1  
xdsl2PMLineCurrTable(1) type=0

.1.3.6.1.2.1.10.251.1.4.1.1.1  
xdsl2PMLineCurrEntry(1) type=0  
INDEX { ifIndex, xdsl2PMLCurrUnit }

.1.3.6.1.2.1.10.251.1.4.1.1.1.1  
xdsl2PMLCurrUnit(1) type=3 tc=4

.1.3.6.1.2.1.10.251.1.4.1.1.1.2  
xdsl2PMLCurr15MValidIntervals(2) type=15

.1.3.6.1.2.1.10.251.1.4.1.1.1.3  
xdsl2PMLCurr15MInvalidIntervals(3) type=15

.1.3.6.1.2.1.10.251.1.4.1.1.1.4  
xdsl2PMLCurr15MTimeElapsed(4) type=16 tc=78  
units=seconds

.1.3.6.1.2.1.10.251.1.4.1.1.1.5  
xdsl2PMLCurr15MFecs(5) type=6 units=seconds

.1.3.6.1.2.1.10.251.1.4.1.1.1.6  
xdsl2PMLCurr15MEs(6) type=6 units=seconds

.1.3.6.1.2.1.10.251.1.4.1.1.1.7  
xdsl2PMLCurr15MSes(7) type=6 units=seconds

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| .1.3.6.1.2.1.10.251.1.4.1.1.1.8  | xdsl2PMLCurr15MLoss(8) type=6 units=seconds                    |
| .1.3.6.1.2.1.10.251.1.4.1.1.1.9  | xdsl2PMLCurr15MUas(9) type=6 units=seconds                     |
| .1.3.6.1.2.1.10.251.1.4.1.1.1.10 | xdsl2PMLCurr1DayValidIntervals(10) type=15                     |
| .1.3.6.1.2.1.10.251.1.4.1.1.1.11 | xdsl2PMLCurr1DayInvalidIntervals(11) type=15                   |
| .1.3.6.1.2.1.10.251.1.4.1.1.1.12 | xdsl2PMLCurr1DayTimeElapsed(12) type=16 tc=78<br>units=seconds |
| .1.3.6.1.2.1.10.251.1.4.1.1.1.13 | xdsl2PMLCurr1DayFecs(13) type=6 units=seconds                  |
| .1.3.6.1.2.1.10.251.1.4.1.1.1.14 | xdsl2PMLCurr1DayEs(14) type=6 units=seconds                    |
| .1.3.6.1.2.1.10.251.1.4.1.1.1.15 | xdsl2PMLCurr1DaySes(15) type=6 units=seconds                   |
| .1.3.6.1.2.1.10.251.1.4.1.1.1.16 | xdsl2PMLCurr1DayLoss(16) type=6 units=seconds                  |
| .1.3.6.1.2.1.10.251.1.4.1.1.1.17 | xdsl2PMLCurr1DayUas(17) type=6 units=seconds                   |
| .1.3.6.1.2.1.10.251.1.4.1.2      | xdsl2PMLLineInitCurrTable(2) type=0                            |
| .1.3.6.1.2.1.10.251.1.4.1.2.1    | xdsl2PMLLineInitCurrEntry(1) type=0                            |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.1  | xdsl2PMLInitCurr15MValidIntervals(1) type=15                   |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.2  | xdsl2PMLInitCurr15MInvalidIntervals(2) type=15                 |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.3  | xdsl2PMLInitCurr15MTimeElapsed(3) type=15<br>units=seconds     |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.4  | xdsl2PMLInitCurr15MFullInits(4) type=15                        |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.5  | xdsl2PMLInitCurr15MFailedFullInits(5) type=15                  |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.6  | xdsl2PMLInitCurr15MShortInits(6) type=15                       |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.7  | xdsl2PMLInitCurr15MFailedShortInits(7) type=15                 |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.8  | xdsl2PMLInitCurr1DayValidIntervals(8) type=15                  |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.9  | xdsl2PMLInitCurr1DayInvalidIntervals(9) type=15                |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.10 | xdsl2PMLInitCurr1DayTimeElapsed(10) type=15<br>units=seconds   |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.11 | xdsl2PMLInitCurr1DayFullInits(11) type=15                      |

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| .1.3.6.1.2.1.10.251.1.4.1.2.1.12                              | xdsl2PMLInitCurr1DayFailedFullInits(12) type=15       |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.13                              | xdsl2PMLInitCurr1DayShortInits(13) type=15            |
| .1.3.6.1.2.1.10.251.1.4.1.2.1.14                              | xdsl2PMLInitCurr1DayFailedShortInits(14) type=15      |
| .1.3.6.1.2.1.10.251.1.4.1.3                                   | xdsl2PMLLineHist15MinTable(3) type=0                  |
| .1.3.6.1.2.1.10.251.1.4.1.3.1                                 | xdsl2PMLLineHist15MinEntry(1) type=0                  |
| INDEX { ifIndex,xdsl2PMLHist15MUnit,xdsl2PMLHist15MInterval } |                                                       |
| .1.3.6.1.2.1.10.251.1.4.1.3.1.1                               | xdsl2PMLHist15MUnit(1) type=3 tc=4                    |
| .1.3.6.1.2.1.10.251.1.4.1.3.1.2                               | xdsl2PMLHist15MInterval(2) type=15                    |
| .1.3.6.1.2.1.10.251.1.4.1.3.1.3                               | xdsl2PMLHist15MMonitoredTime(3) type=15 units=seconds |
| .1.3.6.1.2.1.10.251.1.4.1.3.1.4                               | xdsl2PMLHist15MFecs(4) type=6 units=seconds           |
| .1.3.6.1.2.1.10.251.1.4.1.3.1.5                               | xdsl2PMLHist15MEs(5) type=6 units=seconds             |
| .1.3.6.1.2.1.10.251.1.4.1.3.1.6                               | xdsl2PMLHist15MSes(6) type=6 units=seconds            |
| .1.3.6.1.2.1.10.251.1.4.1.3.1.7                               | xdsl2PMLHist15MLoss(7) type=6 units=seconds           |
| .1.3.6.1.2.1.10.251.1.4.1.3.1.8                               | xdsl2PMLHist15MUas(8) type=6 units=seconds            |
| .1.3.6.1.2.1.10.251.1.4.1.3.1.9                               | xdsl2PMLHist15MValidInterval(9) type=3 tc=53          |
| .1.3.6.1.2.1.10.251.1.4.1.4                                   | xdsl2PMLLineHist1DayTable(4) type=0                   |
| .1.3.6.1.2.1.10.251.1.4.1.4.1                                 | xdsl2PMLLineHist1DayEntry(1) type=0                   |
| INDEX{ ifIndex,xdsl2PMLHist1DUnit,xdsl2PMLHist1DInterval }    |                                                       |
| .1.3.6.1.2.1.10.251.1.4.1.4.1.1                               | xdsl2PMLHist1DUnit(1) type=3 tc=4                     |
| .1.3.6.1.2.1.10.251.1.4.1.4.1.2                               | xdsl2PMLHist1DInterval(2) type=15                     |
| .1.3.6.1.2.1.10.251.1.4.1.4.1.3                               | xdsl2PMLHist1DMonitoredTime(3) type=15 units=seconds  |
| .1.3.6.1.2.1.10.251.1.4.1.4.1.4                               | xdsl2PMLHist1DFecs(4) type=6 units=seconds            |
| .1.3.6.1.2.1.10.251.1.4.1.4.1.5                               | xdsl2PMLHist1DEs(5) type=6 units=seconds              |
| .1.3.6.1.2.1.10.251.1.4.1.4.1.6                               | xdsl2PMLHist1DSes(6) type=6 units=seconds             |
| .1.3.6.1.2.1.10.251.1.4.1.4.1.7                               | xdsl2PMLHist1DLoss(7) type=6 units=seconds            |
| .1.3.6.1.2.1.10.251.1.4.1.4.1.8                               | xdsl2PMLHist1DUas(8) type=6 units=seconds             |

.1.3.6.1.2.1.10.251.1.4.1.4.1.9  
xds12PMLHist1DValidInterval(9) type=3 tc=53

.1.3.6.1.2.1.10.251.1.4.1.5  
xds12PMLLineInitHist15MinTable(5) type=0

.1.3.6.1.2.1.10.251.1.4.1.5.1  
xds12PMLLineInitHist15MinEntry(1) type=0  
INDEX { ifIndex,xds12PMLInitHist15MInterval }

.1.3.6.1.2.1.10.251.1.4.1.5.1.1  
xds12PMLInitHist15MInterval(1) type=15

.1.3.6.1.2.1.10.251.1.4.1.5.1.2  
xds12PMLInitHist15MMonitoredTime(2) type=15  
units=seconds

.1.3.6.1.2.1.10.251.1.4.1.5.1.3  
xds12PMLInitHist15MFullInits(3) type=15

.1.3.6.1.2.1.10.251.1.4.1.5.1.4  
xds12PMLInitHist15MFailedFullInits(4) type=15

.1.3.6.1.2.1.10.251.1.4.1.5.1.5  
xds12PMLInitHist15MShortInits(5) type=15

.1.3.6.1.2.1.10.251.1.4.1.5.1.6  
xds12PMLInitHist15MFailedShortInits(6) type=15

.1.3.6.1.2.1.10.251.1.4.1.5.1.7  
xds12PMLInitHist15MValidInterval(7) type=3 tc=53

.1.3.6.1.2.1.10.251.1.4.1.6  
xds12PMLLineInitHist1DayTable(6) type=0

.1.3.6.1.2.1.10.251.1.4.1.6.1  
xds12PMLLineInitHist1DayEntry(1) type=0  
INDEX { ifIndex,xds12PMLInitHist1DInterval }

.1.3.6.1.2.1.10.251.1.4.1.6.1.1  
xds12PMLInitHist1DInterval(1) type=15

.1.3.6.1.2.1.10.251.1.4.1.6.1.2  
xds12PMLInitHist1DMonitoredTime(2) type=15  
units=seconds

.1.3.6.1.2.1.10.251.1.4.1.6.1.3  
xds12PMLInitHist1DFullInits(3) type=15

.1.3.6.1.2.1.10.251.1.4.1.6.1.4  
xds12PMLInitHist1DFailedFullInits(4) type=15

.1.3.6.1.2.1.10.251.1.4.1.6.1.5  
xds12PMLInitHist1DShortInits(5) type=15

.1.3.6.1.2.1.10.251.1.4.1.6.1.6  
xds12PMLInitHist1DFailedShortInits(6) type=15

.1.3.6.1.2.1.10.251.1.4.1.6.1.7  
xds12PMLInitHist1DValidInterval(7) type=3 tc=53

.1.3.6.1.2.1.10.251.1.4.2  
xds12PMChannel(2) type=0

.1.3.6.1.2.1.10.251.1.4.2.1  
xds12PMChCurrTable(1) type=0  
INDEX { ifIndex, xds12PMChCurrUnit }

.1.3.6.1.2.1.10.251.1.4.2.1.1  
xds12PMChCurrEntry(1) type=0

|                                  |                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| .1.3.6.1.2.1.10.251.1.4.2.1.1.1  | xdsl2PMChCurrUnit(1) type=3 tc=4                                                                  |
| .1.3.6.1.2.1.10.251.1.4.2.1.1.2  | xdsl2PMChCurr15MValidIntervals(2) type=15                                                         |
| .1.3.6.1.2.1.10.251.1.4.2.1.1.3  | xdsl2PMChCurr15MInvalidIntervals(3) type=15                                                       |
| .1.3.6.1.2.1.10.251.1.4.2.1.1.4  | xdsl2PMChCurr15MTimeElapsed(4) type=16 tc=78<br>units=seconds                                     |
| .1.3.6.1.2.1.10.251.1.4.2.1.1.5  | xdsl2PMChCurr15MCodingViolations(5) type=15                                                       |
| .1.3.6.1.2.1.10.251.1.4.2.1.1.6  | xdsl2PMChCurr15MCorrectedBlocks(6) type=15                                                        |
| .1.3.6.1.2.1.10.251.1.4.2.1.1.7  | xdsl2PMChCurr1DayValidIntervals(7) type=15                                                        |
| .1.3.6.1.2.1.10.251.1.4.2.1.1.8  | xdsl2PMChCurr1DayInvalidIntervals(8) type=15                                                      |
| .1.3.6.1.2.1.10.251.1.4.2.1.1.9  | xdsl2PMChCurr1DayTimeElapsed(9) type=16 tc=78<br>units=seconds                                    |
| .1.3.6.1.2.1.10.251.1.4.2.1.1.10 | xdsl2PMChCurr1DayCodingViolations(10) type=15                                                     |
| .1.3.6.1.2.1.10.251.1.4.2.1.1.11 | xdsl2PMChCurr1DayCorrectedBlocks(11) type=15                                                      |
| .1.3.6.1.2.1.10.251.1.4.2.2      | xdsl2PMChHist15MinTable(2) type=0                                                                 |
| .1.3.6.1.2.1.10.251.1.4.2.2.1    | xdsl2PMChHist15MinEntry(1) type=0<br>INDEX{ifIndex,xdsl2PMChHist15MUnit,xdsl2PMChHist15MInterval} |
| .1.3.6.1.2.1.10.251.1.4.2.2.1.1  | xdsl2PMChHist15MUnit(1) type=3 tc=4                                                               |
| .1.3.6.1.2.1.10.251.1.4.2.2.1.2  | xdsl2PMChHist15MInterval(2) type=15                                                               |
| .1.3.6.1.2.1.10.251.1.4.2.2.1.3  | xdsl2PMChHist15MMonitoredTime(3) type=15<br>units=seconds                                         |
| .1.3.6.1.2.1.10.251.1.4.2.2.1.4  | xdsl2PMChHist15MCodingViolations(4) type=15                                                       |
| .1.3.6.1.2.1.10.251.1.4.2.2.1.5  | xdsl2PMChHist15MCorrectedBlocks(5) type=15                                                        |
| .1.3.6.1.2.1.10.251.1.4.2.2.1.6  | xdsl2PMChHist15MValidInterval(6) type=3 tc=53                                                     |
| .1.3.6.1.2.1.10.251.1.4.2.3      | xdsl2PMChHist1DTable(3) type=0                                                                    |
| .1.3.6.1.2.1.10.251.1.4.2.3.1    | xdsl2PMChHist1DEntry(1) type=0<br>INDEX{ifIndex,xdsl2PMChHist1DUnit,xdsl2PMChHist1DInterval}      |
| .1.3.6.1.2.1.10.251.1.4.2.3.1.1  | xdsl2PMChHist1DUnit(1) type=3 tc=4                                                                |

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| .1.3.6.1.2.1.10.251.1.4.2.3.1.2  | xdsl2PMChHist1DInterval(2) type=15                        |
| .1.3.6.1.2.1.10.251.1.4.2.3.1.3  | xdsl2PMChHist1DMonitoredTime(3) type=15<br>units=seconds  |
| .1.3.6.1.2.1.10.251.1.4.2.3.1.4  | xdsl2PMChHist1DCodingViolations(4) type=15                |
| .1.3.6.1.2.1.10.251.1.4.2.3.1.5  | xdsl2PMChHist1DCorrectedBlocks(5) type=15                 |
| .1.3.6.1.2.1.10.251.1.4.2.3.1.6  | xdsl2PMChHist1DValidInterval(6) type=3 tc=53              |
| .1.3.6.1.2.1.10.251.1.5          | xdsl2Profile(5) type=0                                    |
| .1.3.6.1.2.1.10.251.1.5.1        | xdsl2ProfileLine(1) type=0                                |
| .1.3.6.1.2.1.10.251.1.5.1.1      | xdsl2LineConfTemplateTable(1) type=0                      |
| .1.3.6.1.2.1.10.251.1.5.1.1.1    | xdsl2LineConfTemplateEntry(1) type=0                      |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.1  | xdsl2LConfTempTemplateName(1) type=2 tc=75 hint=255t      |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.2  | xdsl2LConfTempLineProfile(2) type=2 tc=75 hint=255t       |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.3  | xdsl2LConfTempChan1ConfProfile(3) type=2 tc=75 hint=255t  |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.4  | xdsl2LConfTempChan1RaRatioDs(4) type=15 units=percent     |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.5  | xdsl2LConfTempChan1RaRatioUs(5) type=15 units=percent     |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.6  | xdsl2LConfTempChan2ConfProfile(6) type=2 tc=75 hint=255t  |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.7  | xdsl2LConfTempChan2RaRatioDs(7) type=15 units=percent     |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.8  | xdsl2LConfTempChan2RaRatioUs(8) type=15 units=percent     |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.9  | xdsl2LConfTempChan3ConfProfile(9) type=2 tc=75 hint=255t  |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.10 | xdsl2LConfTempChan3RaRatioDs(10) type=15 units=percent    |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.11 | xdsl2LConfTempChan3RaRatioUs(11) type=15 units=percent    |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.12 | xdsl2LConfTempChan4ConfProfile(12) type=2 tc=75 hint=255t |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.13 | xdsl2LConfTempChan4RaRatioDs(13) type=15 units=percent    |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.14 | xdsl2LConfTempChan4RaRatioUs(14) type=15 units=percent    |
| .1.3.6.1.2.1.10.251.1.5.1.1.1.15 | xdsl2LConfTempRowStatus(15) type=3 tc=59                  |

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|----------------------------------|------------------------------------------------------|
| .1.3.6.1.2.1.10.251.1.5.1.2      | xdsl2LineConfProfTable(2) type=0                     |
| .1.3.6.1.2.1.10.251.1.5.1.2.1    | xdsl2LineConfProfEntry(1) type=0                     |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.1  | xdsl2LConfProfProfileName(1) type=2 tc=75 hint=255t  |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.2  | xdsl2LConfProfScMaskDs(2) type=2 tc=28               |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.3  | xdsl2LConfProfScMaskUs(3) type=2 tc=29               |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.4  | xdsl2LConfProfVdsl2CarMask(4) type=2 tc=30           |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.5  | xdsl2LConfProfRfiBands(5) type=2 tc=31               |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.6  | xdsl2LConfProfRaModeDs(6) type=3 tc=8                |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.7  | xdsl2LConfProfRaModeUs(7) type=3 tc=8                |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.8  | xdsl2LConfProfRaUsNrmDs(8) type=15 units=0.1 dB      |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.9  | xdsl2LConfProfRaUsNrmUs(9) type=15 units=0.1 dB      |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.10 | xdsl2LConfProfRaUsTimeDs(10) type=15 units=seconds   |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.11 | xdsl2LConfProfRaUsTimeUs(11) type=15 units=seconds   |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.12 | xdsl2LConfProfRaDsNrmDs(12) type=15 units=0.1 dB     |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.13 | xdsl2LConfProfRaDsNrmUs(13) type=15 units=0.1 dB     |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.14 | xdsl2LConfProfRaDsTimeDs(14) type=15 units=seconds   |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.15 | xdsl2LConfProfRaDsTimeUs(15) type=15 units=seconds   |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.16 | xdsl2LConfProfTargetSnrmDs(16) type=15 units=0.1 dB  |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.17 | xdsl2LConfProfTargetSnrmUs(17) type=15 units=0.1 dB  |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.18 | xdsl2LConfProfMaxSnrmDs(18) type=15 units=0.1 dB     |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.19 | xdsl2LConfProfMaxSnrmUs(19) type=15 units=0.1 dB     |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.20 | xdsl2LConfProfMinSnrmDs(20) type=15 units=0.1 dB     |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.21 | xdsl2LConfProfMinSnrmUs(21) type=15 units=0.1 dB     |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.22 | xdsl2LConfProfMsgMinUs(22) type=15 units=bits/second |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.23 | xdsl2LConfProfMsgMinDs(23) type=15 units=bits/second |

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| .1.3.6.1.2.1.10.251.1.5.1.2.1.24 | xdsl2LConfProfCeFlag(24) type=12 tc=43                               |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.25 | xdsl2LConfProfSnrModeDs(25) type=3 tc=44                             |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.26 | xdsl2LConfProfSnrModeUs(26) type=3 tc=44                             |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.27 | xdsl2LConfProfTxRefVnDs(27) type=2 tc=45                             |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.28 | xdsl2LConfProfTxRefVnUs(28) type=2 tc=46                             |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.29 | xdsl2LConfProfXtuTransSysEna(29) type=12 tc=7                        |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.30 | xdsl2LConfProfPmMode(30) type=12 tc=13                               |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.31 | xdsl2LConfProfL0Time(31) type=15 units=seconds                       |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.32 | xdsl2LConfProfL2Time(32) type=15 units=seconds                       |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.33 | xdsl2LConfProfL2Atpr(33) type=15 units=dB                            |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.34 | xdsl2LConfProfL2Atprt(34) type=15 units=dB                           |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.35 | xdsl2LConfProfProfiles(35) type=12 tc=19                             |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.36 | xdsl2LConfProfDpboEPsd(36) type=2 tc=32                              |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.37 | xdsl2LConfProfDpboEsEL(37) type=15 units=0.5 dB                      |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.38 | xdsl2LConfProfDpboEsCableModelA(38) type=15<br>units=2 <sup>-8</sup> |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.39 | xdsl2LConfProfDpboEsCableModelB(39) type=15<br>units=2 <sup>-8</sup> |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.40 | xdsl2LConfProfDpboEsCableModelC(40) type=15<br>units=2 <sup>-8</sup> |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.41 | xdsl2LConfProfDpboMus(41) type=15 units=0.5<br>dBm/Hz                |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.42 | xdsl2LConfProfDpboFMin(42) type=15 units=4.3125 kHz                  |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.43 | xdsl2LConfProfDpboFMax(43) type=15 units=4.3125 kHz                  |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.44 | xdsl2LConfProfUpboKL(44) type=15 units=0.1 dB                        |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.45 | xdsl2LConfProfUpboKLF(45) type=3 tc=40                               |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.46 | xdsl2LConfProfUs0Mask(46) type=12 tc=23                              |

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| .1.3.6.1.2.1.10.251.1.5.1.2.1.47 | xdsl2LConfProfForceInp(47) type=3 tc=53                   |
| .1.3.6.1.2.1.10.251.1.5.1.2.1.48 | xdsl2LConfProfRowStatus(48) type=3 tc=59                  |
| .1.3.6.1.2.1.10.251.1.5.1.3      | xdsl2LineConfProfModeSpecTable(3) type=0                  |
| .1.3.6.1.2.1.10.251.1.5.1.3.1    | xdsl2LineConfProfModeSpecEntry(1) type=0                  |
|                                  | INDEX{xdsl2LConfProfProfileName, xdsl2LConfProfXdslMode } |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.1  | xdsl2LConfProfXdslMode(1) type=3 tc=10                    |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.2  | xdsl2LConfProfMaxNomPsdDs(2) type=16 units=0.1 dBm/Hz     |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.3  | xdsl2LConfProfMaxNomPsdUs(3) type=16 units=0.1 dBm/Hz     |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.4  | xdsl2LConfProfMaxNomAtpDs(4) type=15 units=0.1 dBm        |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.5  | xdsl2LConfProfMaxNomAtpUs(5) type=15 units=0.1 dBm        |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.6  | xdsl2LConfProfMaxAggRxPwrUs(6) type=16 units=0.1 dBm      |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.7  | xdsl2LConfProfPsdMaskDs(7) type=2 tc=32                   |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.8  | xdsl2LConfProfPsdMaskUs(8) type=2 tc=33                   |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.9  | xdsl2LConfProfPsdMaskSelectUs(9) type=3 tc=42             |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.10 | xdsl2LConfProfClassMask(10) type=3 tc=20                  |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.11 | xdsl2LConfProfLimitMask(11) type=12 tc=21                 |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.12 | xdsl2LConfProfUs0Disable(12) type=12 tc=22                |
| .1.3.6.1.2.1.10.251.1.5.1.3.1.13 | xdsl2LConfProfModeSpecRowStatus(13) type=3 tc=59          |
| .1.3.6.1.2.1.10.251.1.5.1.4      | xdsl2LineConfProfModeSpecBandUsTable(4) type=0            |
| .1.3.6.1.2.1.10.251.1.5.1.4.1    | xdsl2LineConfProfModeSpecBandUsEntry(1) type=0            |
| .1.3.6.1.2.1.10.251.1.5.1.4.1.1  | xdsl2LConfProfXdslBandUs(1) type=3 tc=41                  |
| .1.3.6.1.2.1.10.251.1.5.1.4.1.2  | xdsl2LConfProfUpboPsdA(2) type=16 units=0.01 dBm/Hz       |
| .1.3.6.1.2.1.10.251.1.5.1.4.1.3  | xdsl2LConfProfUpboPsdB(3) type=16 units=0.01 dBm/Hz       |
| .1.3.6.1.2.1.10.251.1.5.1.4.1.4  | xdsl2LConfProfModeSpecBandUsRowStatus(4) type=3 tc=59     |

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| .1.3.6.1.2.1.10.251.1.5.2        | xdsl2ProfileChannel(2) type=0                                      |
| .1.3.6.1.2.1.10.251.1.5.2.1      | xdsl2ChConfProfileTable(1) type=0                                  |
| .1.3.6.1.2.1.10.251.1.5.2.1.1    | xdsl2ChConfProfileEntry(1) type=0                                  |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.1  | xdsl2ChConfProfProfileName(1) type=2 tc=75 hint=255t               |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.2  | xdsl2ChConfProfMinDataRateDs(2) type=15<br>units=bits/second       |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.3  | xdsl2ChConfProfMinDataRateUs(3) type=15<br>units=bits/second       |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.4  | xdsl2ChConfProfMinResDataRateDs(4) type=15<br>units=bits/second    |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.5  | xdsl2ChConfProfMinResDataRateUs(5) type=15<br>units=bits/second    |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.6  | xdsl2ChConfProfMaxDataRateDs(6) type=15<br>units=bits/second       |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.7  | xdsl2ChConfProfMaxDataRateUs(7) type=15<br>units=bits/second       |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.8  | xdsl2ChConfProfMinDataRateLowPwrDs(8)<br>type=15 units=bits/second |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.9  | xdsl2ChConfProfMinDataRateLowPwrUs(9)<br>type=15 units=bits/second |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.10 | xdsl2ChConfProfMaxDelayDs(10) type=15<br>units=milliseconds        |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.11 | xdsl2ChConfProfMaxDelayUs(11) type=15<br>units=milliseconds        |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.12 | xdsl2ChConfProfMinProtectionDs(12) type=3 tc=24<br>units=symbols   |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.13 | xdsl2ChConfProfMinProtectionUs(13) type=3 tc=24<br>units=symbols   |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.14 | xdsl2ChConfProfMinProtection8Ds(14) type=3<br>tc=25 units=symbols  |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.15 | xdsl2ChConfProfMinProtection8Us(15) type=3<br>tc=25 units=symbols  |

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| .1.3.6.1.2.1.10.251.1.5.2.1.1.16 | xdsl2ChConfProfMaxBerDs(16) type=3 tc=26                         |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.17 | xdsl2ChConfProfMaxBerUs(17) type=3 tc=26                         |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.18 | xdsl2ChConfProfUsDataRateDs(18) type=15<br>units=bits/second     |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.19 | xdsl2ChConfProfDsDataRateDs(19) type=15<br>units=bits/second     |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.20 | xdsl2ChConfProfUsDataRateUs(20) type=15<br>units=bits/second     |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.21 | xdsl2ChConfProfDsDataRateUs(21) type=15<br>units=bits/second     |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.22 | xdsl2ChConfProfImaEnabled(22) type=3 tc=53                       |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.23 | xdsl2ChConfProfMaxDelayVar(23) type=15<br>units=0.1 milliseconds |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.24 | xdsl2ChConfProfInitPolicy(24) type=3 tc=27                       |
| .1.3.6.1.2.1.10.251.1.5.2.1.1.25 | xdsl2ChConfProfRowStatus(25) type=3 tc=59                        |
| .1.3.6.1.2.1.10.251.1.5.3        | xdsl2ProfileAlarmConf(3) type=0                                  |
| .1.3.6.1.2.1.10.251.1.5.3.1      | xdsl2LineAlarmConfTemplateTable(1) type=0                        |
| .1.3.6.1.2.1.10.251.1.5.3.1.1    | xdsl2LineAlarmConfTemplateEntry(1) type=0                        |
| .1.3.6.1.2.1.10.251.1.5.3.1.1.1  | xdsl2LAlarmConfTempTemplateName(1) type=2<br>tc=75 hint=255t     |
| .1.3.6.1.2.1.10.251.1.5.3.1.1.2  | xdsl2LAlarmConfTempLineProfile(2) type=2 tc=75<br>hint=255t      |
| .1.3.6.1.2.1.10.251.1.5.3.1.1.3  | xdsl2LAlarmConfTempChan1ConfProfile(3) type=2<br>tc=75 hint=255t |
| .1.3.6.1.2.1.10.251.1.5.3.1.1.4  | xdsl2LAlarmConfTempChan2ConfProfile(4) type=2<br>tc=75 hint=255t |
| .1.3.6.1.2.1.10.251.1.5.3.1.1.5  | xdsl2LAlarmConfTempChan3ConfProfile(5) type=2<br>tc=75 hint=255t |
| .1.3.6.1.2.1.10.251.1.5.3.1.1.6  | xdsl2LAlarmConfTempChan4ConfProfile(6) type=2<br>tc=75 hint=255t |

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|----------------------------------|---------------------------------------------------------------------------------|
| .1.3.6.1.2.1.10.251.1.5.3.1.1.7  | xdsl2LAlarmConfTempRowStatus(7) type=3 tc=59                                    |
| .1.3.6.1.2.1.10.251.1.5.3.2      | xdsl2LineAlarmConfProfileTable(2) type=0                                        |
| .1.3.6.1.2.1.10.251.1.5.3.2.1    | xdsl2LineAlarmConfProfileEntry(1) type=0                                        |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.1  | xdsl2LineAlarmConfProfileName(1) type=2 tc=75<br>hint=255t                      |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.2  | xdsl2LineAlarmConfProfileXtucThresh15MinFecs(2)<br>type=15 tc=79 units=seconds  |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.3  | xdsl2LineAlarmConfProfileXtucThresh15MinEs(3)<br>type=15 tc=79 units=seconds    |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.4  | xdsl2LineAlarmConfProfileXtucThresh15MinSes(4)<br>type=15 tc=79 units=seconds   |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.5  | xdsl2LineAlarmConfProfileXtucThresh15MinLoss(5)<br>type=15 tc=79 units=seconds  |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.6  | xdsl2LineAlarmConfProfileXtucThresh15MinUas(6)<br>type=15 tc=79 units=seconds   |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.7  | xdsl2LineAlarmConfProfileXturThresh15MinFecs(7)<br>type=15 tc=79 units=seconds  |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.8  | xdsl2LineAlarmConfProfileXturThresh15MinEs(8)<br>type=15 tc=79 units=seconds    |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.9  | xdsl2LineAlarmConfProfileXturThresh15MinSes(9)<br>type=15 tc=79 units=seconds   |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.10 | xdsl2LineAlarmConfProfileXturThresh15MinLoss(10)<br>type=15 tc=79 units=seconds |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.11 | xdsl2LineAlarmConfProfileXturThresh15MinUas(11)<br>type=15 tc=79 units=seconds  |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.12 | xdsl2LineAlarmConfProfileThresh15MinFailedFullInt(12)<br>type=15                |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.13 | xdsl2LineAlarmConfProfileThresh15MinFailedShrtInt(13)<br>type=15                |
| .1.3.6.1.2.1.10.251.1.5.3.2.1.14 | xdsl2LineAlarmConfProfileRowStatus(14) type=3 tc=59                             |
| .1.3.6.1.2.1.10.251.1.5.3.3      | xdsl2ChAlarmConfProfileTable(3) type=0                                          |

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.1.3.6.1.2.1.10.251.1.5.3.3.1  
xds12ChAlarmConfProfileEntry(1) type=0

.1.3.6.1.2.1.10.251.1.5.3.3.1.1  
xds12ChAlarmConfProfileName(1) type=2 tc=75 hint=255t

.1.3.6.1.2.1.10.251.1.5.3.3.1.2  
xds12ChAlarmConfProfileXtucThresh15MinCodingViolations(2)  
type=15

.1.3.6.1.2.1.10.251.1.5.3.3.1.3  
xds12ChAlarmConfProfileXtucThresh15MinCorrected(3)  
type=15

.1.3.6.1.2.1.10.251.1.5.3.3.1.4  
xds12ChAlarmConfProfileXturThresh15MinCodingViolations(4)  
type=15

.1.3.6.1.2.1.10.251.1.5.3.3.1.5  
xds12ChAlarmConfProfileXturThresh15MinCorrected(5)  
type=15

.1.3.6.1.2.1.10.251.1.5.3.3.1.6  
xds12ChAlarmConfProfileRowStatus(6) type=3 tc=59

.1.3.6.1.2.1.10.251.1.6  
xds12Scalar(6) type=0

.1.3.6.1.2.1.10.251.1.6.1  
xds12ScalarSC(1) type=0

.1.3.6.1.2.1.10.251.1.6.1.1  
xds12ScalarSCMaxInterfaces(1) type=15

.1.3.6.1.2.1.10.251.1.6.1.2  
xds12ScalarSCAvailInterfaces(2) type=15

.1.3.6.1.2.1.10.251.2  
xds12Conformance(2) type=0

.1.3.6.1.2.1.10.251.2.1  
xds12Groups(1) type=0

.1.3.6.1.2.1.10.251.2.1.1  
xds12LineGroup(1) type=22

.1.3.6.1.2.1.10.251.2.1.2  
xds12LineFallbackGroup(2) type=22

.1.3.6.1.2.1.10.251.2.1.3  
xds12LineBpscGroup(3) type=22

.1.3.6.1.2.1.10.251.2.1.4  
xds12LineSegmentGroup(4) type=22

.1.3.6.1.2.1.10.251.2.1.5  
xds12ChannelStatusGroup(5) type=22

.1.3.6.1.2.1.10.251.2.1.6  
xds12ChannelStatusAtmGroup(6) type=22

.1.3.6.1.2.1.10.251.2.1.7  
xds12ChannelStatusPtmGroup(7) type=22

.1.3.6.1.2.1.10.251.2.1.8  
xds12SCStatusGroup(8) type=22

.1.3.6.1.2.1.10.251.2.1.9  
xds12LineInventoryGroup(9) type=22

.1.3.6.1.2.1.10.251.2.1.10  
xds12LineConfTemplateGroup(10) type=22

|                            |                                                  |
|----------------------------|--------------------------------------------------|
| .1.3.6.1.2.1.10.251.2.1.11 | xdsl2LineConfProfGroup(11) type=22               |
| .1.3.6.1.2.1.10.251.2.1.12 | xdsl2LineConfProfRaGroup(12) type=22             |
| .1.3.6.1.2.1.10.251.2.1.13 | xdsl2LineConfProfMsgMinGroup(13) type=22         |
| .1.3.6.1.2.1.10.251.2.1.14 | xdsl2LineConfProfModeSpecGroup(14) type=22       |
| .1.3.6.1.2.1.10.251.2.1.15 | xdsl2LineConfProfModeSpecBandUsGroup(15) type=22 |
| .1.3.6.1.2.1.10.251.2.1.16 | xdsl2ChConfProfileGroup(16) type=22              |
| .1.3.6.1.2.1.10.251.2.1.17 | xdsl2ChConfProfileAtmGroup(17) type=22           |
| .1.3.6.1.2.1.10.251.2.1.18 | xdsl2ChConfProfileMinResGroup(18) type=22        |
| .1.3.6.1.2.1.10.251.2.1.19 | xdsl2ChConfProfileOptAttrGroup(19) type=22       |
| .1.3.6.1.2.1.10.251.2.1.20 | xdsl2LineAlarmConfTemplateGroup(20) type=22      |
| .1.3.6.1.2.1.10.251.2.1.21 | xdsl2LineAlarmConfProfileGroup(21) type=22       |
| .1.3.6.1.2.1.10.251.2.1.22 | xdsl2ChAlarmConfProfileGroup(22) type=22         |
| .1.3.6.1.2.1.10.251.2.1.23 | xdsl2PMLineCurrGroup(23) type=22                 |
| .1.3.6.1.2.1.10.251.2.1.24 | xdsl2PMLineInitCurrGroup(24) type=22             |
| .1.3.6.1.2.1.10.251.2.1.25 | xdsl2PMLineInitCurrShortGroup(25) type=22        |
| .1.3.6.1.2.1.10.251.2.1.26 | xdsl2PMLineHist15MinGroup(26) type=22            |
| .1.3.6.1.2.1.10.251.2.1.27 | xdsl2PMLineHist1DayGroup(27) type=22             |
| .1.3.6.1.2.1.10.251.2.1.28 | xdsl2PMLineInitHist15MinGroup(28) type=22        |
| .1.3.6.1.2.1.10.251.2.1.29 | xdsl2PMLineInitHist15MinShortGroup(29) type=22   |
| .1.3.6.1.2.1.10.251.2.1.30 | xdsl2PMLineInitHist1DayGroup(30) type=22         |
| .1.3.6.1.2.1.10.251.2.1.31 | xdsl2PMLineInitHist1DayShortGroup(31) type=22    |
| .1.3.6.1.2.1.10.251.2.1.32 | xdsl2PMChCurrGroup(32) type=22                   |
| .1.3.6.1.2.1.10.251.2.1.33 | xdsl2PMChHist15MinGroup(33) type=22              |
| .1.3.6.1.2.1.10.251.2.1.34 | xdsl2PMChHist1DGroup(34) type=22                 |
| .1.3.6.1.2.1.10.251.2.1.35 | xdsl2ScalarSCGGroup(35) type=22                  |

.1.3.6.1.2.1.10.251.2.1.36

xdsl2ThreshNotificationGroup(36) type=23

.1.3.6.1.2.1.10.251.2.1.37

xdsl2StatusChangeNotificationGroup(37) type=23

.1.3.6.1.2.1.10.251.2.2

xdsl2Compliances(2) type=0

.1.3.6.1.2.1.10.251.2.2.1

xdsl2LineMibCompliance(1) type=26