Login

telnet xxx
ADMIN
radsl5
en
term len 50

Extract footprint information

LTTNCOAA01CAB01B#**show int vdsl 1/1/8**
interface vdsl 1/1/8 is IS and up

Description   : test1/1/8
Rate Mode   : Adapt at startup
DMT Standard   : 992.1A (ADSL Over POTS)
Band Profile   : 8A
Far-End Vendor   : BDCM (ver A2pvbF039t1)
Framing   : ATM
Estimated Length   ft : na
Up Time   sec : 101
Initializations   : 1509

	Downstream	Upstream
Line Rate	kbps : 9476	1348
Payload Rate	**kbps : 7968**	**1120**
Max Attain Rate	**kbps : 12868**	**1312**
SNR Margin	**dB : 27.0**	**11.7**
Loop Attenuation	**dB : 10.5**	**8.1**
Tx Power	**dBm : 19.4**	**12.5**
Actual Delay	**ms : 8.0**	**8.0**
Actual INP	**sym : 1.8**	**1.6**
ES	: 37	45
SES	: 36	30
UAS	: 9027529	9027529
LOSS	: 24	30
LOLS	: 0	18
LOFS	: 0	0
LPRS	: 0	0
CBC	: 3913	1616
UBC	**: 1307**	**2931**

LTTNCOMA00014901#show ver 1/3
1/3 TA5000 1187121L1

Part Number   : 1187121L1
Uptime   : 116 days, 13 hours, 45 minutes, 52 seconds
Boot Cause   : Warm Start
Serial number   : LBADTN1017AF588
Product Revision   : C

```
CLEI Code              : BVL2U0GCTA
Flash Size        MB : 16
Dram Size         MB : 64
Primary App Version        : J00.0002
Primary App Installed On   : Fri Feb 26 20:14:18 2016
Primary App Built on       : Wed Jun 10 18:47:38 2015
Primary App Checksum       : 36787FF5
Primary App Filename       : App1.biz
Secondary App Version      : N/A
Secondary App Built on     : N/A
Secondary App Checksum     : N/A
Secondary App Filename     : N/A
Boot Version            : E00.038boot
Boot Checksum           : 095F
Boot Built on           : Fri Jul 17 16:05:57 2009
```

VDSL DSP Firmware Version   : V_11.08.03.030.00.03(CO)
VDSL DSP Hardware Version   : VINAX-DFE_V2.2
VDSL DSP API Library Version   : 3.56.3.0

Get link status

LTTNCOAA01CAB01B# **show tab int vdsl 1/1/1**

```
VDSL 1/1

                   Rate(kbps)   Margin(dB)
Port    State| Mode |Framing|   D |  U    D | U
1/1/1   Down | N/A  | EFM   |   0|   0|  0.0| 0.0
```
LTTNCOAA01CAB01B# **show tab int vdsl 1/1/8**

```
VDSL 1/1

                   Rate(kbps)   Margin(dB)
Port    State| Mode |Framing|   D |  U    D | U
1/1/8   Up  | G992.1| ATM   | 7968| 1120| 27.5|11.5
```
LTTNCOAA01CAB01B#

ATM / PTM switching

ATM (FOR ADSL and ADSL2+)

Config t
Int atm-port 1/1/1
No shut
Exit
Int efm-port 1/1/1
Shut

Exit
Exit

PTM (FOR ADSL2+ and VDSL2)

Config t
Int atm-port 1/1/1
shut
Exit
Int efm-port 1/1/1
No Shut
Exit
Exit

Bond ports

ATM Bonding (ADSL2+)

Config t
Int atm-group 1/1/1 legacy-atm
Link 1/1
Link ½
No shut
Exit
exit

PTM Bonding (VDSL2 and ADSL2+)

Config t
int efm-group 1/1/1
link 1/1
link ½
no rate-control enable
no shut
Exit
exit

Set DSLAM profiles (bonded and non-bonded)

Config t
interface vdsl 1/1/1
  deployment region 1 scenario 2 other-service 1 application-standard 3 band-plan 1 **band-profile 1** psd-u0 1 psd-mask 1
  dmt-options snr-margin downstream margins minimum **1.0 target 6.0 maximum 16.0**
  dmt-options snr-margin upstream margins minimum **1.0 target 6.0 maximum 16.0**
  latency-path delay downstream 0 **8**
  latency-path delay upstream 0 **5**
  latency-path init-policy downstream 0 **data-rate**
  latency-path init-policy upstream 0 **data-rate**
  latency-path inp downstream 0 **2.0**
  latency-path inp upstream 0 **1.0**
  latency-path payload-rate downstream 0 minimum 32 maximum **150000**
  latency-path payload-rate upstream 0 minimum 32 maximum **96000**
  latency-path type downstream 0 **interleave**
  latency-path type upstream 0 **interleave**
  latency-path retransmission downstream 0 mode **custom**
  latency-path retransmission downstream 0 custom-config max-ndr **150000**
  power-back-off upstream mode **custom**
  no power-back-off upstream custom-config force-co-length
  power-back-off upstream custom-config band 1 cable-model a **53.00 b 16.20**
  power-back-off upstream custom-config band 2 cable-model a **54.00 b 10.20**
  power-back-off downstream mode disable
  rate-adaption down-shift downstream margin **4.0**
  rate-adaption down-shift upstream margin **4.0**
  rate-adaption up-shift downstream margin **8.0**
  rate-adaption up-shift downstream time **4**
  rate-adaption up-shift upstream margin **8.0**
  rate-adaption up-shift upstream time **4**
  rate-adaption downstream **runtime**
  rate-adaption upstream **startup**
  service-mode **vdsl2**
  no shutdown
exit
exit

Set DSLAM cross-connects

For PTM Bonding – use efm-group, for atm-bonding use vcl of lowest port

PPPoE - PTM

Config t
evc-map **"ppp ptm" 1/3**
  connect evc "PPPoE"
  connect uni **efm-port 1/3/11**
  match ce-vlan-id 201

```
   men-pri inherit
   men-c-tag-pri inherit
   encapsulation ethernet
   subscriber access dhcp mode block
   subscriber access dhcp option-82 vendor-specific enterprise-number 0
   subscriber igmp max-multicast bandwidth 0
   subscriber igmp max-multicast groups 100
   no shutdown
exit
exit
!
```

DHCP - PTM

```
Config t
evc-map "dhcp ptm" 1/3
 connect evc "DHCP"
 connect uni efm-port 1/3/11
 match ce-vlan-id 201
 men-pri inherit
 men-c-tag 10
 men-c-tag-pri inherit
 encapsulation ethernet
 no subscriber access pppoe intermediate-agent
 subscriber access pppoe mode block
 subscriber access dhcp option-82
 subscriber access dhcp option-82 remote-id
 subscriber access dhcp option-82 vendor-specific enterprise-number 0
 subscriber access dhcpv6 relay-agent remote-id insert
 subscriber access dhcpv6 relay-agent vendor-specific loop-characteristics insert
 subscriber access dhcp option-82 loop-characteristics
 subscriber access pppoe intermediate-agent remote-id
 subscriber access pppoe intermediate-agent loop-characteristics
 no shutdown
exit
exit
```

Multicast - PTM

```
Config t
evc-map "vid" 1/3
 connect evc "IGMP_EVC"
 connect uni efm-port 1/3/11
 match ce-vlan-id 201
 match multicast
 men-pri inherit
 men-c-tag-pri inherit
 encapsulation ethernet
 no subscriber access pppoe intermediate-agent
```

```
    subscriber access dhcp mode block
    subscriber access pppoe mode block
    subscriber access dhcp option-82
    subscriber access dhcp option-82 vendor-specific enterprise-number 0
    subscriber igmp mode processing-enabled
    subscriber igmp immediate-leave
    no shutdown
exit
exit
```

PPPoE – ATM

```
Config t
evc-map "ppp atm" 1/3
  connect evc "PPPoE"
  connect uni vcl 1/3/11 vpi 0 vci 32
  match untagged
  match ce-vlan-pri 0
  men-pri inherit
  men-c-tag-pri inherit
  encapsulation ethernet
  subscriber access dhcp mode block
  subscriber access dhcp option-82 vendor-specific enterprise-number 0
  subscriber igmp max-multicast bandwidth 0
  subscriber igmp max-multicast groups 100
  description "clink_7168_ipdata_ATM"
  no shutdown
exit
exit
```

DHCP – ATM

```
Config t
evc-map "dhcp atm" 1/3
  connect evc "DHCP"
  connect uni vcl 1/3/11 vpi 0 vci 32
  match untagged
  match ce-vlan-pri 0
  men-pri inherit
  men-c-tag 10
  men-c-tag-pri inherit
  encapsulation ethernet
  no subscriber access pppoe intermediate-agent
  subscriber access pppoe mode block
  subscriber access dhcp option-82
  subscriber access dhcp option-82 remote-id
  subscriber access dhcp option-82 vendor-specific enterprise-number 0
  subscriber access dhcpv6 relay-agent remote-id insert
  subscriber access dhcpv6 relay-agent vendor-specific loop-characteristics insert
```

subscriber access dhcp option-82 loop-characteristics
subscriber access pppoe intermediate-agent remote-id
subscriber access pppoe intermediate-agent loop-characteristics
no shutdown
exit
exit

Multicast – ATM

Config t
evc-map **"vid atm" 1/3**
connect evc "IGMP_EVC"
connect uni **vcl 1/3/11** vpi 0 vci 32
match untagged
match ce-vlan-pri 4
match multicast
men-pri inherit
men-c-tag-pri inherit
encapsulation ethernet
no subscriber access pppoe intermediate-agent
subscriber access dhcp mode block
subscriber access pppoe mode block
subscriber access dhcp option-82
subscriber access dhcp option-82 vendor-specific enterprise-number 0
subscriber igmp mode processing-enabled
subscriber igmp immediate-leave
no shutdown
exit
exit

Remove DSLAM cross-connects

Config t
No evc-map "**asdadssad**" **1/1**
Exit

Remove bonding on ports

ATM Bonding (ADSL2+)

Config t
atm-group 1/1/1
no link 1/1
no link ½
shut
exit

PTM Bonding (VDSL2 and ADSL2+)

Config t
int efm-group 1/1/1
no link 1/1
no link ½
shut
Exit