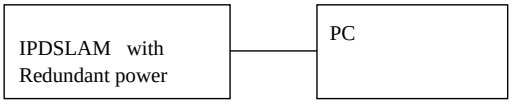
TEST PROCEDURE FOR POST SWITCH ON TEST OF DSLAM BY M/S. UTStarcom Inc.

1.A-B wire test

Test Item: 1	A-B wire test (If applicable)
Test Objective	Check A-B wire for all ports
Test Configuration	IP-DSLAM
Procedure	Perform A-B wire test on all ports between BSNL MDF and UTSTAR MDF. Note: objective of the test is to check the correct punching between the UTStarcom MDF and BSNL MDF.
Result:	A-B wire testing done for all the ports

2. Check for Redundancy of Power Supply / control cards for 120 ports and above

Test Item:2	Check for Redundancy of Power Supply / control cards for 120 ports and above
Test Objective	Power supply redundancy
Test Configuration	IPDSLAM
Procedure	1.Connect the DSLAM (with redundant power supply) as shown in Fig. A, ON both power inputs to the DSLAM using PDP MCB's . -  FIG A 2. Ping PC to IPDSLAM IP. 3. Switch off one power supply of DSLAM, by switching off one MCB in PDP. 4. Ping should not stop.
Result:	Redundant power supply working in DSLAM.

3. Log In & Log Out

Test Item:3	Log In and Log Out
Test Objective	It should be possible to log in and log out in IPDSLAM
Test Equipment	IPDSLAM
Procedure	1.Connect the IPDSLAM as shown in Fig.A. 2. Telnet using command Telnet <ip_address_of IPDSLAM> Give username and password. 3. Logout using command exit.
Result:	Log in and log out is possible in IPDSLAM.

4. Check date and time setting

Test Item:4	Check date and time setting
Test Objective	Check local date and time (through NTP if implemented)
Test Configuration	IP-DSLAM
Procedure	1.Connect the switch to a PC using console 2. See the date using command " show time " 3. Clock can also be set using " time yyyy/mm/dd HH:MM:SS
Result:	IPDSLAM is showing local date and time

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5. Check log details

Test Item:5	Check log details
Test Objective	Check log details
Test Configuration	IP-DSLAM
Procedure	1.Connect the switch to a PC. 2. Open console using HyperTerminal. 3. Give command " show debug-info" to see the log file press q to come out.
Result:	IPDSLAM is showing log details in console

6. Restoration

Test Item:6	Restoration
Test Objective	Restoration (By Power OFF and ON)
Test Configuration	IP-DSLAM
Procedure	1.Connect the switch to a PC using console 2. Configure the ports of DSLAM. And save the configuration 3. Switch off the power and switch on again. 4. Once the controller card is up, the configuration should be there.
Result:	IPDSLAM restores the configuration after power off and ON.

7. Check of alarms

Test Item: 7	Check of alarms
Test Objective	Check of alarms
Test Configuration	IP-DSLAM
Procedure	1.Connect the switch to a PC using console 2.. see the log details using command " *show alarm [slot <module-index-list>] [severity <critical | major |minor >]* " e.g. AN2000_IB#show alarm slot 5 Probable Cause Entity Severity Class Loss Of Signal 5-21 Critical Communication 15MIN ATUC SES 5-21 Minor QoS 24HR ATUC SES 5-21 Minor QoS 15MIN ATUC_UAS 5-21 Minor QoS 24HR ATUC UAS 5-21 Minor QoS 3. Tying just 'show alarm ' will show the link status, remove one link (FE/ GE) and see the alarm using this command.
Result:	IPDSLAM is showing alarm details

8.User Authentication

Test Item:8	User Authentication
Test Objective	User should be able to change the password. (Security purpose to avoid default password)
Equipment Required	IPDSLAM
Procedure	1.Connect the PC with DSLAM using console. 2.Login using admin. 3.Change the password using command " enable-password" e.g. ICM3 board 172.16.4.157 login: admin Password: You are now in the Privileged Mode AN2000_IB#access AN2000_IB(access)#enable-password Old-password: ABC123 New-password: test123 Confirm new password: test123

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	Password changed. 4. Login using new password.
Result:	USER authentication is supported.

9. Check for ADSL ports by activating / de-activating one port at a time and A-B wire.

Test Item: 9	Check for ADSL ports by activating / de-activating one port at a time and A-B wire.
Test Objective	Check for all ports by activating / de-activating one port at a time and A-B wire.
Test Configuration	IP-DSLAM
Procedure	Configure VPI: VCI of all ports and unlock them. Connect ADSL modem at ADSL port. CPE link should sync and corresponding ADSL port LED in IP ADSL port will glow. Lock the port, LED of ipadsl card will become off. For A-B wire refer test case 1 (annexure III) if applicable
Result:	Activation/ deactivation of ports done.

10. Test for GE ports

Test Item: 10	Test for GE ports
Test Objective	Test for GE ports only for 480 port DSLAM
Test Configuration	IP-DSLAM
Procedure	1.connect GE port of DSLAM with tier2 switch. 2.connect Laptop to DSLAM. 3.ping ip address of Switch from PC
Result:	GE port of 480-port dslam is working.

11. Test for FE ports

Test Item: 11	Test for FE ports
Test Objective	Test for GE ports For 240 ports and below
Test Configuration	IP-DSLAM
Procedure	Connect FE port of DSLAM with tier2 switch. Connect Laptop to DSLAM. Ping IP address of switch from PC
Result:	FE port of 240 and below port DSLAM is working.

12. Test for CPE and splitter by simulating line condition

Test Item: 12	Test for CPE and splitter by simulating line condition
Test Objective	On sample basis at MDF both voice and data (By broadband internet access or by ping to DSLAM if network is not available. Telephony services on sample basis including CLIP
Test Configuration	IP-DSLAM, phone line with clip enabled.
Procedure	Connect CPE with IPDSLAM on one random port. Configure that IPDSLAM port for vpi :0 and vci: 35 Ping DSLAM and simultaneously make a phone call. Ping DSLAM and make a call to that testing Phone line, check for clip.
Result:	Simultaneous use of data and phone is working in IP- DSLAM

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