

Customer Deliverable Documentation Revision 1.00, February 15, 2012 Patton Electronics Company, Inc. 7622 Rickenbacker Drive Gaithersburg, MD 20879 USA Tel. +1 (301) 975-1000 Fax +1 (301) 869-9293 support@patton.com http://www.patton.com

G.SHDSL (2GS) Release Notes

Build Series G11

The G.SHDSL (2GS) software is an embedded application software for the SmartNode[™] series of VoIP Gateways and Gateway Routers that provide a G.SHDSL interface.

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Supported Products

SmartNode 4600 Large Series (HW Version: 2.x) SmartNode 4660, 4670 Series (HW Version: 1.x) SmartNode 4830 Large Series (HW Version: 2.x) SmartNode 4950 Series (HW Version: 5.x) SmartNode 4960 Series (HW Version: 5.x) SmartNode 5400 Series (HW Version: 5.x)

SmartWare compatibility

G.SHDSL (2GS) Release	SmartWare Release
G11	R5.T_2011-09-13 or newer; R5.9 or newer
G10	R5.T_2011-09-13 or newer; R5.9 or newer
G07	R5.T_2011-09-13 or newer; R5.9 or newer
G06	R5.T_2011-09-13 or newer; R5.9 or newer
G05	R5.T_2011-03-16 or newer; R5.8 or newer
G04	R5.T_2011-03-16 or newer; R5.8 or newer
G03	R5.T_2010-11-12 or newer; R5.7 or newer



History of Solved CTS Cases

The following list refers to open cases in the Change Tracking System 'CTS'.

This Build Series G11

11767 G.S Interop problem with Zhone DSLAM

Backward interop issue against Orion legacy code has been fixed in the case of 4-wire auto fallback to enhanced mode.

Note: Legacy Orion CO does not support Standard mode, which means that the CPE should be configured in Enhanced mode. Moreover, the bit rate mode must be set to a fixed rate in this case (i.e. not adaptive).

Pair reversal

In 4-wire mode, the two pairs can now be reversed without affecting the link of the two pairs.

This Build Series G10

11727 Lost connectivity

Powering on and powering off a SmartNode device could cause corruption of the DSL software. This leads to a complete loss of the connectivity on the DSL interface. Measures have been taken to guarantee the stability of software. With these measures taken the DSL interface has proved to be immune against this kind of corruption.

Build Series G07

11711 Improved interoperability

New DSP software improves stability and interoperability. In particular legacy Orion architectures and a new Lantiq DSLAMs are supported now.

Build Series G06

11594 Additional parameters in G.SHDSL status: SNR, Loop Attenuation, Port States

The DSL interface now also provides values for the SNR, Loop Attenuation and Port State parameters. For these values to be displayed, the SmartWare version given in the compatibility table is required.

11618 Link not coming up due to handshake incompatibility

With some specific DSLAM devices the link on the DSL interface could not be established. This fix adds backward compatibility to handshake messages from some legacy devices with an old handshake version ID.



Build Series G05

11305 Activity and Link LED

The two LEDs associated with the G.SHDSL interface had been statically turned on at poweron but did not show any specific behavior. Now the link LED is blinking while establishing the link and remains on as long as the link is up. The Activity LED now blinks depending on the amount of traffic sent over the DSL line.



Caveat - Known Limitations

The following list refers to open cases in the Change Tracking System 'CTS'

CTS11539

When switching from fixed to adaptive bit rate mode the negotiated bit rate will be equal to the last configured fixed bit rate. Rebooting the SmartNode after changing to adaptive bit rate mode will solve this problem.



Documentation

Please refer to the following online resources:

- Software Configuration Guide SmartWare Release R5.8: <u>http://www.patton.com/manuals/SCG_r58.pdf</u>
- SmartWare Configuration Library: <u>http://www.patton.com/voip/confignotes.asp</u>



How to Upgrade

If you run a SmartWare version which is not listed as compatible to the G.SDSL software you need to upgrade the SmartWare first by following points 1-3. If SmartWare is already up to date you can start upgrading the G.SHDSL firmware starting with point 4.

- 1. Extract <SmartWareFirmware>.zip to <tftp_root_folder>/smartware
- 2. You have the choice to upgrade with or without the GUI functionality.

To upgrade SmartWare without the GUI functionality, enter the following command (telnet, console):

copy tftp://<tftp server address>/smartware/b flash:

To upgrade SmartWare with the GUI functionality, enter the following command (telnet, console):

copy tftp://<tftp_server_address>/smartware/bw flash:

3. Reboot the SmartNode afterwards:

reload

- 4. Extract G.SDSL_Firmware(G10).zip to <tftp_root_folder>/2gs
- 5. To upgrade to G10 enter the following command (telnet, console):

copy tftp://<tftp server address>/2gs/b flash:

6. Reboot the SmartNode afterwards:

reload



How to submit Trouble Reports

Patton makes every effort to ensure that the products achieve a supreme level of quality. However due to the wealth of functionality and complexity of the products there remains a certain number of problems, either pertaining to the Patton product or the interoperability with other vendor's products. The following set of guidelines will help us in pinpointing the problem and accordingly find a solution to cure it.

Problem Description:

Add a description of the problem. If possible and applicable, include a diagram of the network setup (with Microsoft tools).

Product Description:

When reporting a problem, always submit the product name, release and build number.

Example: SmartNode 4960 V1 R5.T Build G10

This will help us in identifying the correct software version.

In the unlikely case of a suspected hardware problem also submit the serial number of the SmartNode (s) and/or interface cards.

Running Configuration:

With the Command Line Interface command 'show running-configuration' you can display the currently active configuration of the system (in a telnet and/or console session). When added to the submitted trouble report, this will help us analyze the configuration and preclude possible configuration problems.

Logs and Protocol Monitors:

Protocol traces contain a wealth of additional information, which may be very helpful in finding or at least pinpointing the problem. Various protocol monitors with different levels of detail are an integral part of SmartWare and can be started (in a telnet and/or console session) individually ('debug' command).

N.B.: In order to correlate the protocol monitors at the different levels in SmartWare (e.g. ISDN layer3 and Session-Router monitors) run the monitors concurrently.

Network Traffic Traces:

In certain cases it may be helpful to have a trace of the traffic on the IP network in order to inspect packet contents. Please use one of the following tools (supporting trace file formats which our tools can read): Ethereal (freeware; www.ethereal.com)

Your Coordinates:

For further enquiries please add your email address and phone number.