

/ SOFTWARE RELEASE NOTES

Release 2.5.0.14

Relevant Models:

SR350N

SR350NE

SR360n

SR500N

SR500NE


SR505N

SR510n

SR550n

SR552n

June 2017



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SW REVISION SUMMARY

SW Rev	DSP PHY/XDSL Line Driver	CFE Bootloader	Wireless Driver Version	Date
2.5.0.14	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	6/1/17
2.5.0.13	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	11/2/16
2.5.0.11	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	5/25/16
2.5.0.10	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	12/22/15
2.5.0.9	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	10/1/15
2.5.0.8	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	6/26/15
2.5.0.7	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	5/19/15

SW Rev	DSP PHY/XDSL Line Driver	CFE Bootloader	Wireless Driver Version	Date
2.5.0.6	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	12/30/14
2.5.0.5	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	10/10/14
2.5.0.4	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	7/7/14
2.5.0.3	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	6/6/14
2.5.0.2	A2pG038i.d25 (SR360) A2pD038f.d25 (SR350) A2pv6C039b.d25 (SR500) A2pv6F039b.d25 (SR505/SR510) A2pvbF038n.d25 (SR550)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	4/18/14
2.5.0.1	A2pD038f.d24m (SR350) A2pG038i.d24m (SR360) A2pv6C039b.d24m (SR500) A2pv6F039b.d24m (SR505/SR510) A2pvbF038n.d24m (SR550)	1.0.38-114.70	6.30.102.7.cpe4.12L08.0	12/19/13
2.4.4.6	A2pD035j.d24a (SR350) A2pv6C035j.d24a (SR500) A2pv6F037a.d24a (SR505)	1.0.38-112.70	5.100.138.2001.cpe4.12L04.3	8/26/2013
2.4.4.5	A2pD035j.d24a (SR350) A2pv6C035j.d24a (SR500) A2pv6F037a.d24a (SR505)	1.0.38-112.70	5.100.138.2001.cpe4.12L04.3	6/5/2013
2.4.4.4	A2pD035j.d24a (SR350) A2pv6C035j.d24a (SR500)	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	11/12/2012

SW Rev	DSP PHY/XDSL Line Driver	CFE Bootloader	Wireless Driver Version	Date
2.4.4.3	A2pD035j.d24a (SR350) A2pv6C035j.d24a (SR500)	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	10/11/2012
2.4.4.2	A2pD035j.d24a (SR350) A2pv6C035j.d24a (SR500)	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	7/30/2012
2.4.3.7	A2pD030n.d23c (SR350) A2pv6C032a.d23c (SR500)	1.0.37-106.24	5.60.120.11.cpe4.06L.03.8	5/31/2012
2.4.3.6	A2pD030n.d23c (SR350) A2pv6C032a.d23c (SR500)	1.0.37-106.24	5.60.120.11.cpe4.06L.03.8	4/26/2012

CHANGES AND FIXES

REF #	DESCRIPTION
RB-2496	Added DHCP option 43 support for the LAN DHCP server
RB-2524	Integrated Connected Analytics client code in to DSL firmware for 2.5.0.14 and 2.6.1.3
RB-2634	Added the ability to lockout the GUI after a certain amount of failed login attempts
RB-2636	Addressed issue with the LAN side DHCP not remaining disabled across power cycles
RB-2638	Addressed an issue that didn't allow you to modify the LAN IP Address and Secondary IP Address
RB-729	Addressed issue of CPE not getting IPv6 IP address in PPPoE and PPPoA WAN service mode.
RB-810	Addressed issue with IPv6 WAN configurations not retaining after power cycle.
RB-1483	Addressed issue with CPE routing through default gateway instead of a configured gateway in policy routing table
RB-2150	Addressed issue with Parental Controls settings screens not being available to support user when attempting remotely to set restrictions or URL filter
RB-2262	Addressed issue with IGMP Proxy disabled wouldn't allow other IGMP parameters to be set
RB-2536	Added support for Traceroute to be run from the ACS
RB-2550	Addressed issue where the wireless button was being disabled after selecting the Guest SSID in the security tab
RB-2578	Addressed issue where the logout timer on the GUI couldn't be accessed via the WAN side.
RB-2637	Add capability for encrypted passwords
RB-2656	Addressed issue with excessive LAN hosts causing inform to fail.
RB-2461	Addressed a display issue of Port VPI/VCI displaying for Ethernet WAN connections
RB-2486	Addressed issue with identical Layer 1 bonded stats being reported to ACS
RB-2526	Added special config parameter to use lower case or uppercase for base MAC passphrase within the config file for specific customer
RB-2652	Addressed issue with STUN restarting continuously with PPPoA (Dual Stack)

COMPATIBILITY/SYSTEM NOTES

The introduction of Custom Default Settings feature requires the CFE to be upgraded when moving from any firmware version 2.4.4.2 or older. Firmware upgrades from any version below 2.4.4.3 to version 2.4.4.3 or newer requires the CFE to be upgraded using firmware that includes a new CFE. Firmware files including CFEs contain the string “cfe” in the filename. For example, the CA_PBCA_2.4.4.3_24742_SR350N_cfe_fs_kernel file would be used to upgrade the firmware on a SR350N gateway.

Warning: Failure to upgrade the CFE when moving from a firmware version before version 2.4.4.3 will result in unpredictable operation of the gateway and unknown factory default settings.

Downgrading from 2.4.4.3 and newer versions to pre 2.4.4.3 is not advised. If a downgrade must be accomplished, use the Reset button to return the device to factory default settings. The downgrade must be accomplished using the CFE image of the target firmware release. Factory default the device after the firmware has been downgraded by holding the Reset button for at least 10 seconds after applying power to the device. Power must be off before pressing the reset button.

Downgrading from 2.5.0.7 and newer releases is not advised due to the increased configuration size. If a downgrade must be accomplished, a factory default of the device via the reset button must be performed. See the above paragraph for more information.

In order to support expanded configuration files, it is recommended that the SR552n be upgraded to 2.5.0.5 or later. The cfe_fs_kernel image is required for the upgrade. This will result in a factory reset only during the initial upgrade. All subsequent upgrades will retain the configuration.

IGMP Snooping Definitions:

- **Standard Mode** - in standard mode, if multicast traffic is present on a LAN port but no membership report (join) was received, the traffic will flood to all ports. If a membership report was received, multicast traffic will be forwarded only to the LAN ports on which the IGMP membership reports arrived.
- **Blocking Mode** - in blocking mode, multicast traffic will be blocked from all ports until such time a report is received.

If IGMP snooping is disabled the CPE floods multicast packets to all its ports. IGMP Snooping is disabled by default.

This software supports Physical Layer Retransmission (PhyR) which operates at layer 1 and uses a mechanism similar to TCP where retransmits occur if errors are detected. This results in high effective INP with minimal interleave delay. Sync rate increases from 2 to 4Mbps have been reported in addition to the line being more robust and resistant to noise/interference generated from treadmills, ceiling fans, etc. PhyR is disabled by default but can be enabled in the DSL menu.

Wireless is enabled by default with SSID = SmartRGxxxx (x = last four characters of base MAC). Wireless security is Mixed WPA2/WPA-PSK, passphrase = OneCpeToRuleThemAll, Rekey interval = 0 and encryption = TKIP+AES.

Included PBCA Features:

- Control Panel
- Content Filtering
- Time Blocking
- Captive Portal
- Connect and Surf
- STUN and UDP Connection Request
- Advanced Connected Device Monitor

- Bandwidth Monitor
- WiFi Performance Monitor
- Dynamic Content Filtering

Prior FW Releases

Contact SmartRG support for the release notes for prior firmware releases.

FW UPGRADE PROCEDURE

Upgrade Firmware

1. Open a web browser, connect to 192.168.1.1/admin, and login with username: **admin** and password: **admin** (or customer specific IP address and login info).
2. Click Management → Update Software and click the Browse button.
3. Locate and select the appropriate firmware image.
4. Select the Update Software Button. The image will be uploaded to the device and the device will automatically reboot upon completion.

Verify

1. Hit the F5 Key to refresh your browser and reconnect to 192.168.1.1/admin to log back into the device.
2. Click on Device Info.
3. Verify the version information in the *Software Version* field.

Restore Defaults

1. Click on the Management Link.
2. Click on settings.
3. Click on Restore Default.

CUSTOM DEFAULTS

The Custom Defaults feature allows the importation of a set of defaults to the gateway that will be restored when the Restore Default Settings is activated. This set of defaults can be defined and updated via the GUI, CLI or CWMP support of the gateway.

To create a set of Custom Default settings, configure the gateway as required. Use the Backup Running Configuration button on the Backup Settings to upload a configuration file from the gateway. After the file is uploaded, choose the file and use the Update Working Settings button on the Update Settings window to download the file to the gateway. The gateway will use the downloaded settings as the custom default whenever the Restore Default operation is invoked.

TECH SUPPORT

CPE Issues

Submit a ticket using our Customer Portal at <https://smartrg.atlassian.net>

RMA's

Open a Customer Portal ticket with description “RMA” and attach a spreadsheet which includes Model, MAC address, Issue, and Firmware version.

Firmware

Login to the Customer Portal to download firmware.

Additional Contact Info

Phone: +1 360 859 1780 and press Option 4.

Hours: 5am -5pm PST (UTC-0800)

Email: support@smartrg.com

REVISION HISTORY

VERSION	DATE	AUTHOR	DESCRIPTION
1.0	12/30/2014	Adam Fox	Initial release of document
1.1	06/13/2017	Adam Fox	Updated for release 2.5.0.14.