

/ SOFTWARE RELEASE NOTES

RELEASE 2.5.0.15

Relevant Models:

SR350N

SR350NE

SR360n

SR500N

SR500NE

SR505N

SR510n

SR550n

SR552n

October 12, 2017

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Software Revision Summary

Version 2.5.0.15 is released in support for the gateway models identified below. There are no known open issues with this release.

SW REVISION	DSP PHY/XDSL LINE DRIVER	CFE BOOTLOADER	WIRELESS DRIVER VERSION	DATE
2.5.0.15	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505n/SR510n) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	10/9/17
2.5.0.14	A2pG038i.d25d (SR360) A2pD038f.d25d (SR350) A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505n/SR510n) 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 (SR505n/SR510n) A2pvbF039j.d25d (SR550/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	11/2/16
2.5.0.12	Not released for general availability			
2.5.0.11	A2pG038i.d25d (SR360n) A2pD038f.d25d (SR350N) A2pv6C039b.d25d (SR500N) A2pv6F039j.d25d (SR505n/SR510n) A2pvbF039j.d25d (SR550n/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	5/25/16
2.5.0.10	A2pG038i.d25d (SR360n) A2pD038f.d25d (SR350N) A2pv6C039b.d25d (SR500N) A2pv6F039j.d25d (SR505n/SR510n) A2pvbF039j.d25d (SR550n/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	12/22/15
2.5.0.9	A2pG038i.d25d (SR360n) A2pD038f.d25d (SR350N) A2pv6C039b.d25d (SR500N) A2pv6F039j.d25d (SR505n/SR510n) A2pvbF039j.d25d (SR550n/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	10/1/15
2.5.0.8	A2pG038i.d25d (SR360n) A2pD038f.d25d (SR350N)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	6/26/15

SW REVISION	DSP PHY/XDSL LINE DRIVER	CFE BOOTLOADER	WIRELESS DRIVER VERSION	DATE
	A2pv6C039b.d25d (SR500N) A2pv6F039j.d25d (SR505n/SR510n) A2pvbF039j.d25d (SR550n/SR552n)			
2.5.0.7	A2pG038i.d25d (SR360n) A2pD038f.d25d (SR350N) A2pv6C039b.d25d (SR500N) A2pv6F039j.d25d (SR505n/SR510n) A2pvbF039j.d25d (SR550n/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	5/19/15
2.5.0.6	A2pG038i.d25d (SR360n) A2pD038f.d25d (SR350N) A2pv6C039b.d25d (SR500N) A2pv6F039j.d25d (SR505n/SR510n) A2pvbF039j.d25d (SR550n/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	12/30/14
2.5.0.5	A2pG038i.d25d (SR360n) A2pD038f.d25d (SR350N) A2pv6C039b.d25d (SR500N) A2pv6F039j.d25d (SR505n/SR510n) A2pvbF039j.d25d (SR550n/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	10/10/14
2.5.0.4	A2pG038i.d25d (SR360n) A2pD038f.d25d (SR350N) A2pv6C039b.d25d (SR500N) A2pv6F039j.d25d (SR505n/SR510n) A2pvbF039j.d25d (SR550n/SR552n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	7/7/14
2.5.0.3	A2pG038i.d25d (SR360n) A2pD038f.d25d (SR350N) A2pv6C039b.d25d (SR500N) A2pv6F039j.d25d (SR505n/SR510n) A2pvbF039j.d25d (SR550n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	6/6/14
2.5.0.2	A2pG038i.d25 (SR360n) A2pD038f.d25 (SR350N) A2pv6C039b.d25 (SR500N) A2pv6F039b.d25 (SR505n/SR510n) A2pvbF038n.d25 (SR550n)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	4/18/14
2.5.0.1	A2pD038f.d24m (SR350N) A2pG038i.d24m (SR360n) A2pv6C039b.d24m (SR500N) A2pv6F039b.d24m (SR505n/SR510n) A2pvbF038n.d24m (SR550n)	1.0.38-114.70	6.30.102.7	12/19/13

SW REVISION	DSP PHY/XDSL LINE DRIVER	CFE BOOTLOADER	WIRELESS DRIVER VERSION	DATE
2.4.4.6	A2pD035j.d24a (SR350N) A2pv6C035j.d24a (SR500N) A2pv6F037a.d24a (SR505n)	1.0.38-112.70	5.100.138.2001	8/26/2013
2.4.4.5	A2pD035j.d24a (SR350N) A2pv6C035j.d24a (SR500N) A2pv6F037a.d24a (SR505n)	1.0.38-112.70	5.100.138.2001	6/5/2013
2.4.4.4	A2pD035j.d24a (SR350N) A2pv6C035j.d24a (SR500N)	1.0.37-106.24	5.100.138.2001	11/12/2012
2.4.4.3	A2pD035j.d24a (SR350N) A2pv6C035j.d24a (SR500N)	1.0.37-106.24	5.100.138.2001	10/11/2012
2.4.4.2	A2pD035j.d24a (SR350N) A2pv6C035j.d24a (SR500N)	1.0.37-106.24	5.100.138.2001	7/30/2012
2.4.3.7	A2pD030n.d23c (SR350N) A2pv6C032a.d23c (SR500N)	1.0.37-106.24	5.60.120.11	5/31/2012
2.4.3.6	A2pD030n.d23c (SR350N) A2pv6C032a.d23c (SR500N)	1.0.37-106.24	5.60.120.11	4/26/2012

Changes and Fixes

Ref #	Description
RB-2734	Addressed issue where, under certain circumstances, Base MAC settings were not honored when upgrading firmware.
RB-2746	Improvements to Analytics agent and addressed issue on 350n with analytic support.
RB-2747	Addressed issue where, under certain circumstances, passwords could be corrupted when modified.
RB-2751	Addressed Analytics agent issue where adding local hosts could cause modem to reboot.
RB-2752	Addressed issue with Analytics agent which caused the client to report empty capabilities at startup sometimes.
RB-2753	Addressed issue with CDM causing static lease handle to be marked as "modified" which caused issues Analytics agent.

Compatibility/System Notes

The introduction of the 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 with firmware that includes a new CFE.

Warnings:

- **Upgrading from 2.4.4.3 and older:** 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.
Note: Firmware files containing a CFE contain the string "cfe" in the filename. For example, the file, CA_PBCA_2.4.4.3_24742_SR350N_cfe_fs_kernel, would be used to upgrade the firmware on a SR350N gateway.
- **Downgrading from 2.4.4.3 and newer versions to versions older than 2.4.4.3:** This action is *not advised*. If a downgrade is required, make sure to use the CFE image of the target firmware release and then reset the device to its factory default settings 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:** This action is not advised due to the increased configuration size. If a downgrade is required, you must reset the device to factory default settings as explained above.
- **SR552n Note:** To support expanded configuration files, it is recommended that the SR552n be upgraded to version 2.5.0.5 or later, using the cfe_fs_kernel image. 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, a randomized 10-digit hexadecimal passphrase, Group Rekey interval = 0 and encryption = 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 to obtain 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 log in with username **admin** and password **admin** (or customer specific IP address and login info).
2. In the left navigation menu, click **Management** and then click **Update Software**.
3. Click **Browse**.
4. Locate and select the appropriate firmware image.
5. Click **Update Software**. The image will be uploaded to the device and the device will automatically reboot upon completion.

Verify

1. After the device reboots (~5 minutes), press the F5 key to refresh your browser and reconnect to 192.168.1.1/admin.
2. Log back into the device. The Device Info page appears.
3. Verify the version information in the **Software Version** field.

Restore Defaults

1. In the left navigation menu, click **Management** and then click **Settings**.
2. Click **Restore Default** and confirm. The restore defaults operation takes about 30 seconds, then the device reboots.

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. Click the **Backup Running Configuration** button on the Backup Settings page to upload a configuration file from the gateway. After the file is uploaded, go to the Update Settings page, choose the file and click the **Update Working Settings** button to download the file to the gateway. The gateway will use the downloaded settings as the custom default whenever the **Restore Default Settings** 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: 8am -5pm ET (UTC-0500)

Email: support@smartrg.com.

Document History

Version	Date	Author	Description
1.3	Oct 12, 2017	K. Diekemper	Updated for release 2.5.0.15.
1.2	Jun 1, 2017	K. Diekemper	Updated for release 2.5.0.14.
1.1	Nov 03, 2016	J. Cohen	Updated to match release 2.5.0.13.
1.0	Dec 30, 2014	A. Fox	Initial release of document.