

## / SOFTWARE RELEASE NOTES

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Release 2.6.1.4

September 2017

**Relevant Models:**

SR360n

SR501

SR505n

SR506n

SR510n

SR512nm

SR515ac

SR552n

SR700ac

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## Software Revision Summary

Version 2.6.1.4 is released in support only for the SR360n, SR501, SR505n, SR506n, SR510n, SR512nm, SR515ac, SR552n, and SR700ac.

SW Revision	DSP PHY/XDSL Line Driver	CFE Bootloader	Wireless Driver Version	Date
2.6.1.4	A2pv6F039v.d26n (SR505n/SR510n/SR512nm/SR515ac/SR552n/SR700ac)  A2pvl042j1.d26n (SR501/SR506n)  A2pG039s.d26n (SR360n)	1.0.38-118.3	7.14.164.19	9/29/17
2.6.1.3	A2pv6F039v.d26n (SR512nm/SR515ac/SR700ac)  A2pvl042j1.d26n (SR501/SR506n)	1.0.38-118.3	7.14.131.1608	3/31/17
2.6.1.2	A2pv6F039v.d26k1	1.0.38-118.3	7.14.131.1608	12/9/16
2.6.1.1	A2pv6F039v.d26k1	1.0.38-118.3	7.14.131.1608	6/27/16
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)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	10/1/15

SW Revision	DSP PHY/XDSL Line Driver	CFE Bootloader	Wireless Driver Version	Date
	A2pv6F039j.d25d (SR505n/SR510n)			
	A2pvbF039j.d25d (SR550n/SR552n)			
2.5.0.8	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	6/26/15
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)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	7/7/14

SW Revision	DSP PHY/XDSL Line Driver	CFE Bootloader	Wireless Driver Version	Date
	A2pv6F039j.d25d (SR505n/SR510n)			
	A2pvbF039j.d25d (SR550n/SR552n)			
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.cpe4.12L08.0	12/19/13
2.4.4.6	A2pD035j.d24a (SR350N) A2pv6C035j.d24a (SR500N) A2pv6F037a.d24a (SR505n)	1.0.38-112.70	5.100.138.2001.cpe4.12L04.3	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.cpe4.12L04.3	6/5/2013
2.4.4.4	A2pD035j.d24a (SR350N) A2pv6C035j.d24a (SR500N)	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	11/12/201 2
2.4.4.3	A2pD035j.d24a (SR350N) A2pv6C035j.d24a (SR500N)	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	10/11/201 2
2.4.4.2	A2pD035j.d24a (SR350N)	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	7/30/2012

SW Revision	DSP PHY/XDSL Line Driver	CFE Bootloader	Wireless Driver Version	Date
	A2pv6C035j.d24a (SR500N)			
2.4.3.7	A2pD030n.d23c (SR350N) A2pv6C032a.d23c (SR500N)	1.0.37-106.24	5.60.120.11.cpe4.06L.03.8	5/31/2012
2.4.3.6	A2pD030n.d23c (SR350N) A2pv6C032a.d23c (SR500N)	1.0.37-106.24	5.60.120.11.cpe4.06L.03.8	4/26/2012

## New Features and Improvements

The following new features and improvements are included in this release.

### *New Features*

Ref #	Description
RB-2691	New feature capable of disabling syn flood rules, which can impact performance.
RB-2703	New Feature which provides a configurable option to allow queueing of the notifications for a configurable period, then sending a single, summary email notification at the conclusion of the queueing period. Only on the SR700ac LTE product
RB-2618	New Feature to support a Spanish GUI.
RB-2634	New Feature added the ability to lockout the GUI after a certain amount of failed login attempts
RB-2672	New Feature allowing the capability to display the management OUI string in all uppercase
RB-2698	New Feature for updating cell module firmware in the field on the SR700ac. Added cellfwupdate command to CLI. Added X_SMARTRG_COM_CellFwUpdate. object to data model as well as a GUI option
RB-2610	New Feature on the SR700ac which allows being able to configure fail-over triggers for when to fail-over to LTE connections or Vice versa
RB-2637	New feature allowing the capability for encrypted passwords within config files.
RB-2671	New feature to send a notification from the SR700ac when a fail-over event has happened via E-mail
RB-2685	New Feature which allows the admin password to be the same as the WiFi key
RB-2692	New Feature added to support DSL WAN statistics via the Analytics agent.

### *Improvements*

Ref #	Description
RB-2711	Improvement to the SHA agent to ensure capabilities retry counter gets reset.
RB-2728	Improvement to DSL stats for Analytics agent by reworking to use Data Model object for non-bonded units
RB-2738	Improvement to the Analytics agent to update the config handler to allow specifying reporting interval in minutes. Changed initialization to start Radio and SSID reports after WiFi monitor has had a chance to run, rather than waiting for the full interval.
RB-2403	Improvement to enhance the "support" access user's ability to allow changing passwords for any new access users.
RB-2688	Improvement for the SR700ac in which writing the APN from the config to the modem would be conditioned on a flag
RB-2630	Improvement on the SR700ac to add wired WAN monitor fail-over from IpoE instead of just PPPoE
RB-2648	Improvement to add support for Verizon on the SR700ac
RB-2655	Improvement to the SR700ac by implementing wired WAN monitor which validates the interface before fall-back
RB-2737	Improvement to encrypt the E-mail acct password for User Notification on the SR700ac

## Changes and Fixes

The following changes and fixes were included in the 2.6.1.4 release.

Ref #	Description
RB-2576	Addressed multicast issue where STB middle-ware not booting STB fully.
RB-2714	Addressed issue in which the Analytics client would not re-connect reliably when the server address was changed.
RB-2563	Addressed issue with 5G Site Survey not working on the SR515ac
RB-2595	Addressed a Memory Leak in the CDM module that impacted the modem over time.
RB-2636	Addressed issue with the LAN side DHCP not remaining disabled across power cycles
RB-2638	Addressed an issue that didn't allow modifying the LAN IP Address and Secondary IP Address
RB-2686	Addressed issue with the SR700ac when fail-over happens sometimes pings from LAN host did not get a response.
RB-2656	Addressed issue with excessive LAN hosts causing inform to fail.
RB-2689	Addressed issue causing WiFi services to be impacted if running WiFi Insight
RB-2486	Addressed issue with identical Layer 1 bonded stats being reported to ACS
RB-2670	Addressed issue with Analytics agent which may cause initial local network host reports to be missing their parent SSID UUIDs.
RB-2673	Addressed issue with Site Survey always reports WPA(2) if WPA(2)-PSK seen
RB-2682	Addressed issue with Analytics agent which the WiFi radio reports the length field off by 4.
RB-2593	Addressed issue with site survey reporting the wrong security



## Compatibility/System Notes

### 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 for the release notes for prior firmware releases.

## Firmware Upgrade Procedure

**Warning:** Please read the following if updating from 2.5.0.x.

Support in this release has been added for SR360n, SR505n, SR510n, and SR552n. Prior to upgrading to 2.6.1.4, these models must be running version 2.5.0.14. Upgrading from earlier revisions is not supported.

### *Upgrade Firmware*

1. Open a web browser, connect to 192.168.1.1/admin, and login with username admin and the password assigned to your device.
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 Version*

1. Press the F5 Key to refresh your browser and reconnect to 192.168.1.1/admin to log back into the device. The Device Info > Summary page appears.
2. Verify the version information in the **Software Version** field.

### *Restore Defaults*

1. In the left menu, click **Management**.
2. Click **Settings** > **Restore Default**.
3. Follow the instructions on the page.

### *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:

1. Configure the gateway as required.
2. On the Backup page, click the **Backup Running Configuration** button to upload a configuration file from the gateway.
3. After the file is uploaded, go to the Update Software page, select 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 operation is invoked.

## Technical Support

### *CPE Issues*

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

### *RMAs*

Open a Customer Portal ticket with description "RMA" and attach the RMA Device spreadsheet which includes Model, MAC address, Issue, and Firmware version. You can find the spreadsheet in the Customer Portal on the RMA instructions page.

### *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](mailto:support@smartrg.com)

## Revision History

VERSION	DATE	AUTHOR	DESCRIPTION
1.0	12/30/2014	Adam Fox	Initial document
1.1	5/26/2014	David LaCagnina	Layout modified
1.2	3/31/2017	Kurt Diekemper	Updated to include LTE feature and other changes.
1.3	9/29/2017	Kurt Diekemper	Updated with all 2.6.1.4 information.