

SMART/RC[®]
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/SOFTWARE RELEASE NOTES

Release 2.5.0.7

Relevant Models:

SR350N

SR350NE

SR360n

SR500N

SR500NE

SR505N

SR510n

SR550n

SR552n

Release 2.5.0.7
May 19, 2015

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DOCUMENT HISTORY

VERSION	DATE	AUTHOR	DESCRIPTION
1.0	12/30/14	Adam Fox	Document Creation

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SW REVISION SUMMARY

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
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)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	7/7/14

	A2pv6C039b.d25d (SR500) A2pv6F039j.d25d (SR505/SR510) A2pvbF039j.d25d (SR550/SR552n)			
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	1.0.38-112.70	5.100.138.2001.cpe4.12L04.3	8/26/2013

	(SR500) A2pv6F037a.d24a (SR505)			
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
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

REFERENCE NUMBER	DESCRIPTION
RB-134	Addressed issue with DHCP option 121 not removing routes until reboot occurs
RB-872	Addressed issue with LAN side SSH not working when LAN side firewall is Enabled
RB-1000	Addressed issue with Custom ACS port number
RB-1064	Addressed issue with PPPoE debug mode enabled was not displaying all session events in the Syslog.
RB-1071	Enhancement to the GUI and Data model to restrict the usage of Base MAC to only one WAN service.
RB-1202	Addressed issue with the protocol type field reporting "None" within the IP filtering feature.
RB-1321	Addressed TR-69 issue with WLANConfiguration.Channel being reported to the ACS as 0 when in Auto mode
RB-1354	TTL needs to be greater than 1 to pass routed multicast traffic.
RB-1462	Enhancement to PPPoE algorithm to handle PADT better on non filtered networks
RB-1470	Addressed issue on the 3XX series gateways not being able to apply/save QoS configurations
RB-1473	Enhancement to PPPoE algorithm after reboot.
RB-1478	Enhancement to Connected Device Monitor to eliminate a suspended state on the 552n
RB-1479	Added New Feature allowing the service provider to setup access control for specific user accounts.
RB-1482	Addressed issue with the USB Connection Status displaying nothing
RB-1497	Enhancement to the STUN Retry algorithm to reduce the amount of retries
RB-1499	Addressed issue with the gateway not reflecting Advance Wireless parameters from the configuration file across a reboot
RB-1515	Addressed issue with using the Static DNS Option with PPPoE/IPoE WAN services
RB-1519	Addressed issue with enabling NAT caused the Base MAC to be disabled
RB-1532	Addressed issue with configuration migration of the WAN Access Control port from 2.5.0.6
RB-1540	Addressed issue with Wi-Fi Channel setting not migrating from older releases
RB-1557	Addressed issue while creating a large number of port triggers resulted in the gateway being suspended
RB-1559	Addressed issue with deletion of a WAN service with a large number of virtual servers created causing errors
RB-1561	Addressed issue with gateway not being accessible from the WAN interface after the removal of an ACL from the access list
RB-1565	Addressed issue with not being able to add virtual servers using the support account

RB-1602	Addressed issue with HTTP traffic being blocked when port 80 is defined in the virtual server and LAN side firewall is enabled
RB-1610	Addressed issue with static IPv6 WAN configuration not updating router lifetime properly
RB-1613	Addressed issue with the GUI suspending when configuring WAN access list and incoming filters
RB-1649	Addressed issue with HTTP WAN Port number in conjunction with the use of virtual servers or manually configured ports
RB-1655	Addresses issue with WIFI performance when running Speedtest utilizing xDSL uplinks
RB-1656	Addressed issue with Gateway being put into a suspended state when attempting to delete a large number of ACL's
RB-1661	Addressed issue with not being able to access the gateway after enabling the LAN side firewall
RB-1716	Addressed issue with migration from older Firmware releases displayed NAT and Firewall enabled on Bridge WAN services
RB-1718	Addressed issue with default configurations not following the same syntax from older releases causing migration issues
RB-1719	Addressed issue with the gateway suspending with no communication when new configuration file is loaded
RB-1723	Addressed issue with configuration migration from older release of Firmware
RB-1731	Enhanced the GUI by adding the capability to enable and disable a specific feature for Canadian DSLAM environments
RB-1741	Addressed issue with SSH WAN Port number in conjunction with the use of virtual servers or manually configured ports
RB-1753	Addressed issue with using Base MAC address for the Guest SSID WPA Pass phrase, while migrating from older Firmware releases
RB-1757	Addressed issue with Service drop down menus of Virtual Servers using the French GUI
RB-1759	Development of MFG user account accessible via the Telnet on the local Ethernet port for manufacturing and local support. This account can be disabled by an admin

IMPROVEMENTS

REFERENCE NUMBER	DESCRIPTION
RB-1131	Enhancement to support configuration and status of GigE Ethernet Ports
RB-1134	Enhancement to enable the TFTP Custom Auto Configuration feature when utilizing an IPoE WAN interface.
RB-1148	Enhancement to the custom TFTP Auto config feature to allow path names

RB-1370	Enhancement to OUI base static leases able to accept both Lower and Upper Case values
RB-1500	Enhancement to PPPoE retry algorithm
RB-1513	Enhancement for the 3xx series gateways to decrease processor overhead
RB-1520	Enhancement to all SmartRG gateways by increasing the size for larger configuration file support
RB-1691	Enhancement for improving Wi-Fi performance of the 320/360

NEW FEATURES

REFERENCE NUMBER	DESCRIPTION
RB-1220	Enhancement to the reset button functionality by changing the timing for each operation
RB-1456	QoS Port shaping enhancement
RB-1460	Added new feature to automatically generate WPA key phrase at the factory and print the Default SSID and Pass Phrase on the units label
RB-1463	Enhancement to PPPoE algorithm at startup
RB-1487	Enhancement to allow the configuration of MTU size with GigE WAN interfaces
RB-1544	Implemented support for DHCP Option 18, 43, 66, 150 on the WAN interfaces DHCP Client

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 before. Firmware upgrades from any version below 2.4.4.3 to 2.4.4.3 or newer requires the CFE to be upgraded by use of the firmware that includes a new CFE. 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.

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, a factory default of the device via the reset button must be performed. 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. Note that 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 select 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>

RMAs:

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, Option 4 Hours: 5am –5pm PST (UTC-0800) Email: support@smartrg.com