Software Release Notes

Release 2.5.0.3

Relevant to SR Series Models:

SR350N   *SR350NE*   *SR360n*

SR500N   *SR500NE*   *SR505N*

SR510n   *SR550n*

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Document History

Version	Date	Author	Description
1.0	08/05/2012	M. Solomon	Document creation
2.0	10/11/2012	P. Franzek	Addition of Custom Defaults Usage

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SW Revision Summary

SW Version	DSP/xDSL Line Driver	CFE	Wireless Driver	Release Date
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
2.4.4.3	A2pD035j.d24a (SR350)	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	10/11/2012

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	A2pv6C035j.d24a (SR500)			
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

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Changes and Fixes

Ref #	Description
RB-89	Maximum Number of wireless clients are not generated in SR505N
RB-207	Default route is deleted after renumbering in IPoE
RB-970	WAN Summary page misreports IP after reboot
RB-971	Attainable rate on ADSL2 circuit shows incorrect value with PHYR enabled
RB-992	Memory Leak
RB-1002	SR550n QoS Port Shaping non-functional
RB-1010	DHCP Option 121 causes reboot
RB-1033	Can configure 192.168.1.255 as DHCP pool starting address.
RB-1039	Service Category CBR Peak Cell Rate
RB-1042	Security Vulnerability in WLAN ACSD
RB-1073	Fix SYN issue
RB-1099	UPNP/HTTPD Crash

Improvement

Ref #	Description
RB-973	Disable NAT and Firewall for Bridged connections
RB-976	Remove G.INP option from NON G.INP build
RB-989	SR510n - New build to support umami board.
RB-1005	Merge in latest DSL drivers
RB-1006	Merge in ATM/ADSL bonded patch from Broadcom
RB-1009	ACL's with specific address ranges
RB-1031	Ethernet Port Config GUI - Update Status Display

New Feature

Ref #	Description
RB-812	Enable HotSpot 2.0 in DSL builds.
RB-925	Create Support Link for ISP's
RB-928	Management Access Lists nonfunctional with WAN side firewall disabled
RB-1007	Add option to send unit serial number in the DSL parameters instead of BoardID and MAC
RB-1008	Create default admin password
RB-1049	Make 4G LTE link configurable

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.

This 2.4.4.2 FW release is the first upgrade from Broadcom 4.06 to 4.12 SDK (software development kit). The image containing "CFE" in the file name should be used when upgrading from or downgrading to pre-4.06 versions. The Broadcom version can be determined by looking at the software version in the modem's device info page. For example this is a 4.12 version; '2.4.4.2_4.12L.04.A2pD035j.d24a'. Target download protection has been enabled which prevents downloads of incompatible files.

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

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- 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

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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