Software Release Notes

Release 2.5.0.5

Relevant to SR Series Models:

SR350N   *SR350NE*   *SR360n*

SR500N   *SR500NE*   *SR505N*

SR510n   *SR550n*   *SR552n*

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
3.0	10/10/2014	J. Cohen	Created 2.5.0.5 Release Notes
4.0	10/28/2014	K. Diekemper	Modified summary for issues

Notice of Document Integrity

The contents of this document are current as of the date of publication. SmartRG Inc. reserves the right to change the contents without prior notice. In no event will SmartRG be liable for any damages or for commercial losses resulting from information contained in this document.

smartrg.com

SW Revision Summary

SW Version	DSP/xDSL Line Driver	CFE	Wireless Driver	Release Date
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)	1.0.38-114.70	6.30.102.7.cpe4.12L08.0	12/19/13

	A2pv6F039b.d24m (SR505/SR510) A2pvbF038n.d24m (SR550)			
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) 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

smartrg.com

Changes and Fixes

Ref #	Description
RB-256	Fixed issue with TR-69 IP Ping Diagnostics not functioning when triggered by ACS.
RB-523	Fixed issue by blocking the ability to (upgrade/downgrade) the firmware using Management-->Settings-->Update from the web GUI
RB-775	Updated Documentation to explain the proper setup and configuration for WDS - Wireless Distribution Service.
RB-939	Fixed issue with WAN side responding to DNS queries when WAN firewall Disabled.
RB-966	Added capability for the SR510N ETH WAN interface which would allow for connection using 2 or 4 pair physical wiring.
RB-1000	Added capability to configure the ACS connection request.
RB-1096	Fixed issue when STUN was Disabled and reboot was performed STUN would Re-Enable itself.
RB-1120	Fixed iptables error messages when trying to delete non-existent syn flood rules.
RB-1123	Fixed an issue with GUI ACL setting the wrong Iptables entries.
RB-1146	Fixed issue with the SR552n and SR510n DSL LED's flashing when WAN Ethernet was enabled. DSL LED's will not Flash with Ethernet WAN connected.
RB-1158	Fixed an issue that allowed WAN side DNS queries when WAN Firewall/NAT Disabled and DNS Proxy was enabled.
RB-1163	Fixed an ssk error when checking the version of a configuration file during tftp download.
RB-1172	Fixed an issue with oversize configuration files for the SR552N (ONLY) by increasing the PSI size from 64K to 256K. This will cause any SR552N unit running older FW to factory reset automatically.
RB-1197	Enhanced our PPP debug messaging capability.
RB-1206	Added QoS Classifications with Dynamic QoS Queue Configuration support.
RB-1327	Fixed issue were PPPoE client waits for LCP timeout if connection is terminated by server PADT without LCP-Terminate.

Improvement

Ref #	Description
RB-1164	Improved the custom PPPoE feature by enhancing the capability to support Multiple WAN services.
RB-1177	Added capability of Management ACL FTP to support any DST port address.
RB-1179	Enable SIP in IPOE and PPPOE service.

smartrg.com

New Feature

Ref #	Description
RB-613	Dynamic QoS Prioritization with Queue Interface Assignment.
RB-1061	Click-through allows access to redirected web page.
RB-1070	Persist DHCP lease info for LAN hosts across gateway reboots.
RB-1169	Support for LAN side DHCP options 150 and 66.
RB-1098	Added logout option to GUI.

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.

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

smartrg.com