

Software Release Notes

Release 2.5.0.1

Relevant to SR Series Models:

SR350N SR350NE SR360n

SR500N SR500NE SR505N

SR510n SR550n





Document History

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

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SW Revision Summary

SW	DSP/xDSL Line	CFE	Wireless Driver	Release Date
Version	Driver			
2.5.0.1	A2pD038f.d24m		6.30.102.7.cpe4.12L08.0	12/19/13
	(SR350)		_	
	A2pG038i.d24m			
	(SR360)			
	A2pv6C039b.d24m			
	(SR500)			
	A2pv6F039b.d24m			
	(SR505/SR510)			
	A2pvbF038n.d24m			
	(SR550)	1.0.38-114.70		
2.4.4.6	A2pD035j.d24a		5.100.138.2001.cpe4.12L04.3	8/26/2013
	(SR350)			
	A2pv6C035j.d24a			
	(SR500)			
	A2pv6F037a.d24a			
	(SR505)	1.0.38-112.70		
2.4.4.5	A2pD035j.d24a		5.100.138.2001.cpe4.12L04.3	6/5/2013
	(SR350)			
	A2pv6C035j.d24a			
	(SR500)			
	A2pv6F037a.d24a			
	(SR505)	1.0.38-112.70		
2.4.4.4	A2pD035j.d24a		5.100.138.2001.cpe4.12L04.3	11/12/2012
	(SR350) A2pv6C035j.d24a	1.0.37-106.24		
	(SR500)	1.0.07 100.21		
2.4.4.3	A2pD035j.d24a	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	10/11/2012
	(SR350)			
	A2pv6C035j.d24a			
	(SR500)			
2.4.4.2	A2pD035j.d24a	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	7/30/2012
	(SR350) A2pv6C035j.d24a			
	(SR500)			
2.4.3.7	A2pD030n.d23c	1.0.37-106.24	5.60.120.11.cpe4.06L.03.8	5/31/2012
2.7.3./	(SR350)	1.0.3/-100.24	3.00.120.11.cpe4.00L.03.0	3/31/2012
	A2pv6C032a.d23c			
	(SR500)			
2.4.3.6	A2pD030n.d23c	1.0.37-106.24	5.60.120.11.cpe4.06L.03.8	4/26/2012
	(SR350) A2pv6C032a.d23c			
	(SR500)			
	(31.000)	1	1	1





Changes and Fixes

Ref#	Description	Notes
RB-21	Bandwidth value is not updated	Notes
RB-52	Northstate - LAN DHCP Server Menu Disappears	
RB-63	Ethernet Port configuration is missing from the GUI	
RB-89	Maximum Number of wireless clients are not generated in SR505N	
RB-93	SR505N:LAN services are accessible when LAN FW disabled	
RB-94	Syslog message shows there is a Mismatch in LAN Ports Eth2 and Eth0	
RB-99	MAC Filtering Functionality not working	
RB-100	SR505N:Port Triggering functionality is not working.	
RB-113	ARP Request to new gateway is missing after re-numbering.	
RB-113	In Bridge mode, LAN Client is not obtaining WAN IP	
RB-208	ARP request is not sent to learn the MAC address after renumbering the default	
KD-200	gateway	
RB-211	On enabling the LAN side Firewall, LAN Client is not Obtaining IP	
RB-213	SR500NE WAN will not train with 100BaseTX cable	
RB-220	MAC Address of WAN Interface created manually differs from system base MAC	
RB-221	TR69 crash observed while performing restore default factory	
RB-225	Calix IPTV packet drops on SR500	
RB-242	350N with 2.5.0.1 not training with E7 in PTM mode	
RB-251	2.5.0.1: Static Route is not getting added for PPPoE where gateway will be the	
	WAN interface	
RB-253	TR69C: Passive notification of value changes does not increment Event count	
RB-254	WLAN LED Mal-function in SR350N	
RB-259	CPE doesn't try to obtain WAN IP on Dis-connecting and Re-Connecting DSLAM	
	OUT Cable	
RB-262	display ADSL PTM mode option in web UI for all SRG models	
RB-265	disable ADSL PTM mode by default in 350N	
RB-271	UPnP patch needs to be applied to 4.12-08 and earlier SDK's	
RB-278	Wireless Bridge feature not working	
RB-282	UPnP memory leak	
RB-291	On CnS, WAN IP is not obtained in IPoE Wan Service.	
RB-299	CLONE - Policy Routing Function is not working - 2.5.0	
RB-309		
RB-322	Time Zone offset being set under Automatically sync with Internet Time Servers	
	setting is corrupting POSIX format of parameter LocalTimeZoneName for	
	modems users using Time Blocking	
RB-338	Default Wireless SSID doesn't contain last four digit of MAC	
RB-339	Static DNS configurations are not retained once we navigate to next page while	
DD 241	creating/editing a WAN Service	
RB-341	Unable to enable WPS using WPS Button	
RB-368	QoS UI bug: MAC Address mask	
RB-372	Calix - LAN and WAN DNS server support via TR-069	
RB-373	Issues during creating and editing the WAN Service	
RB-379	device crash on PPP auth failure with ETH WAN	
RB-382	Comwave: Negative values are accepted for the parameters LCP Keepalive Period	





	and LCP Retry Threshold	
RB-385	Static Route Remove button is misplaced in Metric field	
RB-416	Policy Routing::Accepts a policy route without default gateway in IPoE	
RB-410	Setting Static DNS causes DNS proxy to crash	
RB-420		
RB-425	TR-069 client using IPv6 address for management server on IPv4 connection	
	MAC Clone is not enabled while editing WAN Service	
RB-427 RB-487	Enabling Device Click Through on the ACS crashes the TR-069 client	
RB-491	Factory Default/Reset scripts in any ACS wipes out custom default config LAN client does not get IP when DHCP relay is enabled	
RB-491	decimal place needs to be moved in the DSL rates on summary screen and DSL	
KD-494	stats	
RB-499	Device Info doesn't display Line Rate / Traffic Type info in Current Status section	
KD-433	for ATM based WAN service connections (compare to PTM)	
RB-500	Missing build options from target files causing MTU issues on SR5xx devices.	
RB-501	PhyR stats not displayed on DSL stats page	
RB-502	DHCP server subnet mask not functioning correctly	
RB-504	DHCP vendor ID fails over bridged interface group	
RB-506	FW:2.5.0.1 - CPE GUI is not accessible on enabling the LAN side Firewall	
RB-511	Interface grouping issues	
RB-545	LCP echo and echo retry are set to 0 in mdm	
RB-547	Able to configure more than 32 entries in IP and MAC Filtering	
RB-548	Dropping traffic in ADSL & VDSL Bonded mode IPTV	
RB-549	SR550n - DNS Proxy failure reported by Alaska Communications	
RB-559	ATM Interface Page is missing under Layer2 Interface	
RB-561	Unable to access all CPE GUI pages in support login	
RB-564	Bonded ADSL2+ trains up resets routing stops.	
RB-577	SR550n UI issues	
RB-593	505N autonegotiation issue on LAN1	
RB-601	FW:2.5.0.1 - SR350N keeps rebooting after restoredefault factory	
RB-602	FW:2.5.0.1 - RIP UI issue	
RB-631	Disable parameter type checking for Activation server	
RB-643	SR360n - WPS button glows while cable connected for LAN 3 port	
RB-669	WAN status is always in connecting status when configured in IPv6 only mode	
RB-671	FairPoint - Default config provided for custom FW	
RB-686	Add support for Wifi on/off button and WPS buttons for SR510n and SR360	
RB-717	Duplicate IP assignment possible in interface group configuration@SR360n	
RB-720	Line Rate is displayed in multiples 1000	
RB-725	Negative values are accepted as life time static ULA Prefix advertisement	
RB-765	SR510n - After CPE Obtained WAN IP, Power LED glows in red color	
RB-773	VCI accepts the out of range values	
RB-789	Disable 5GHz WiFi Band for SR550n only.	

Improvement

Ref#	Description	Notes
RB-179	GUI buttons labeled differently and placed differently	
RB-203	Increase UI cap on PortMapping objects (SRG Connect)	





RB-205	Expose a TR-069 mechanism for loading a new set of custom defaults.	
RB-234	STUN failure: 1. fallback period is too long 2. shutdown on incomplete state	
	information	
RB-243	Add DHCP Relay Support	
RB-257	Enable UPnP by default for all targets	
RB-286	Add Save Default page	
RB-294	Display Configuration File Origin on Device Info page	
RB-314	Bell Canada - Merge in latest Broadcom patch for interop with Ikanos chip.	
RB-323	Add configuration to force use of Base MAC Address on WAN Connections	
RB-342	Static Routing - Dynamically Assign Default Gateway to route	
RB-353	Add latest PHY drivers to the SR505N, SR550n, and SR500N	
RB-381	Hide DSL Profile 30a on all VDSL2 modems	
RB-426	Add checkbox to GUI to enable/disable keypassphrase generation from GUI	
RB-438	SR360n - Hide Power Management page in GUI	
RB-552	Integrate rev 39b DSL PHY's to builds	
RB-572	Add PVC to default Comwave configuration	
RB-574	Incorporate Bell Canada improvements into generic FW	
RB-605	Add in latest DSL driver patch from Broadcom	
RB-606	LIME - SR505N custom config	
RB-650	ACL enhancements	
RB-675	Simplified Landing page for Bell ISP default configurations	

Interop

Ref#	Description	Notes
RB-424	SR550n interop with Cisco Prime Home	

New Feature

1107/10000110		
Ref#	Description	Notes
RB-107	Comwave: Add SNMP support	
RB-171	SR550 support	
RB-200	Host Table Entry support	
RB-201	Wild card support for DHCP Vendor Id	
RB-264	LIME Single Image Firmware	
RB-375	Generate WPA keypassphrase from MAC Address	
RB-407	multiple NAT via one WAN	
RB-418	SR360n support	
RB-594	Access Control List support (ACL, renamed)	
RB-644	Add DDNS entry to drop down list.	
RB-655	SR510n - Platform bring up	
RB-657	Add Feature: Hairpin NAT (aka NAT Loopback)	

Requirement





Ref#	Description	Notes
RB-595	ICE custom firmware	

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
- 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

