

/ SOFTWARE RELEASE NOTES

SMARTOS 10.6.X

November 2018

SmartOS SW Revision Summary

Firmware	Description	Date
10.6.3.1	Various fixes and enhancements; see lists for details.	11/29/18
10.5.4.1	Various fixes and enhancements; see lists for details.	8/30/18
10.5.2.1	Various fixes and enhancements; see lists for details.	6/29/18
10.4.7.1	Various fixes and enhancements; see list for details.	3/5/18
10.3.8.1	WebUI redesign; enhanced features.	6/30/17
10.2.1.1	Initial GA Release for SR400ac.	6/30/16

SR400ac/SR90xac Product Description

- Gigabit Residential Gateway
- 1x Gigabit Ethernet WAN
- 1x SFP WAN (SR900ac only)
- 4x Gigabit Ethernet LAN
- Dual-band concurrent WiFi (5GHz, 2.4GHz)
 - SR400ac: 3x3 11n + 3x3 11ac
 - SR900ac: 4x4 11n + 4x4 11ac
- 1x USB2
- 1x USB3

SR400ac/SR90xac Features

- WAN Configuration Modes: DHCPv4, Static, PPPoE
- WAN VLAN Tagging Modes: Untagged, Tagged, Double Tagged (QinQ)
- TR-069 Management (TR-181 data model) with STUN
- HTTP Interface
- CLI Interface via SSH
- Smart Modem Manager (hairpin redirect to upstream WAN device)
- NAT/Firewall
- IGMP Snooping
- IGMP Proxy (v2/v3)
- IPv6
- NetData statistical graphs

Revision 10.6.3.1

New Features in 10.6.3.1

- HW support for SR905ac and SR905acv
- HW support for SR652ac
- Bonded VDSL (17a) on SR652ac
- Integration of UGW 7.4.1 (IPTV Improvements)
- Manufacturing Support for SR905ac, SR652ac
- WiFi support for AUS
- ADSL/ATM
- DSL Vectoring on SR900ac, SR905ac, SR652ac
- Advanced POTS features
- Huawei IMS POTS interop
- Improved Language Support (20 languages)
- Advanced Upstream QoS (Beta) on SR900ac, SR905ac, SR652ac

Enhancements in 10.6.3.1

Ref	Description
OWRT-1885	Added support for French GUI
OWRT-2477	Enhanced image validation for Firmware downloads via TR-069
OWRT-3196	Enhanced capability to view data Analytics when two WAN services are configured.
OWRT-3195	Implement bi-directional client command to set WiFi Radio Channel via Analytic platform
OWRT-2505	Enhanced capability of SFP WAN Optical Stats
OWRT-2970	Enhanced capability of support for Hairpin NAT
OWRT-3196	Enhanced capability to view data Analytics when two WAN services are configured.
OWRT-2477	Enhanced image validation for Firmware downloads via TR-069
OWRT-2486	Enhancement by adding DSL Uptime Counter within UI
OWRT-3063	Enhancement by adding extension handling for dialing the local number
OWRT-2846	Enhancement by adding toggle for Stealth firewall mode
OWRT-3035	Enhancement by adding VoIP - TR104 - checks for empty UCI list for digit map
OWRT-2483	Enhancement by adding WPS support for the SR900ac
OWRT-2577	Enhancement for Intellifi by adding display of WiFi Guests on topology
OWRT-3220	Enhancement for VoIP SpeedDial8 adding capability to toggle on/off in GUI
OWRT-2304	Enhancement for VOIP by adding Asterisk Logging
OWRT-2600	Enhancement for VoIP by adding local call waiting support
OWRT-2599	Enhancement for VoIP by adding local conference call support (3way, attended CT, etc)
OWRT-2923	Enhancement for VoIP by adding Local support for anonymous call blocking
OWRT-2601	Enhancement for VoIP by adding local support for ATTENDED call transfer
OWRT-2783	Enhancement for VoIP by adding Local support for BLIND call transfer
OWRT-2865	Enhancement for VoIP by adding local support for 'call forwarding' busy, no-answer, all
OWRT-2844	Enhancement for VoIP by adding local support for 'Call Hold, Call Park'
OWRT-2831	Enhancement for VoIP by adding local support for 'Cancel Call Waiting' per call
OWRT-2904	Enhancement for VoIP by adding local support for 'do not disturb' feature
OWRT-2918	Enhancement for VoIP by adding Local support for speed dial extensions, speed dial entry input, etc..
OWRT-2866	Enhancement for VoIP by adding the Asterisk UCI module
OWRT-2739	Enhancement for VoIP by adding TR-104 support for Calling Features objects
OWRT-2901	Enhancement for VoIP by exposing Call Park options
OWRT-2899	Enhancement for VoIP by exposing Call Transfer and 3way options
OWRT-2903	Enhancement for VoIP by exposing Call waiting and CWCID config options
OWRT-2900	Enhancement for VoIP by exposing Cancel call waiting per call feature

Ref	Description
OWRT-2897	Enhancement for VoIP by exposing DTMF options per line (in-band, INFO, 2833)
OWRT-2447	Enhancement for VOIP by exposing SIP auth username option to users
OWRT-2928	Enhancement for VoIP to expose GUI configuration for local call feature suite.
OWRT-2494	Enhancement of adding a knob to disable DHCP-assigned DNS server IPs.
OWRT-2745	Enhancement to Display Firmware Upgrade history in the GUI
OWRT-3110	Enhancement to Enable vectoring for all SmartOS DSL products.
OWRT-3073	Enhancement to make DSL stats page columns dynamic based on number of lines
OWRT-2622	Enhancement to Pre-populate WiFi Quick-start fields when in reconfigure mode
OWRT-3080	Enhancement to Translate Dashboard gauge titles (Network Activity, WAN/WiFi Down/Upstream) when selecting another language.
OWRT-3003	Enhancement to VoIP - Feature status and value field become greyed out if/when disabled.
OWRT-3043	Enhancement to VoIP by adding from domain which was missing from Registration
OWRT-2902	Enhancement to VoIP by exposing block caller id per call
OWRT-2995	Enhancement to VoIP by making CW tone limit, no-limit, and interval configurable

Fixes in 10.6.3.1

Ref ID	Description
OWRT-2108	Address issue with Access schedule and Device groups not working properly on the SR90x platforms
OWRT-3427	Address issue with Cloud storage displaying Network down after time server sync'd properly. This is only after Firmware migration.
OWRT-3095	Address issue with CWMP client sending wrong connectionRequestURL when WAN is configured as PPPoE
OWRT-2542	Address issue with DLNA not working after reboot on the SR90x.
OWRT-3314	Address issue with Interface duplex speed reporting wrong in some cases.
OWRT-2841	Address issue with not being able to disable video WAN once enabled.
OWRT-2891	Address issue with NTP config not saving properly
OWRT-2942	Address issue with OSI signal (forward disconnect) not being generated when the remote party goes on-hook.
OWRT-3142	Address issue with P-bit configuration option for Internet WAN.
OWRT-565	Address issue with pushing port forward entries from the ACS not updating the gateway properly.
OWRT-2329	Address issue with restrict Source not working in Modem Manager
OWRT-2961	Address issue with selecting different languages within the GUI.
OWRT-1364	Address issue with Static reservations not being pushed properly to the gateway from the ACS.

Ref ID	Description
OWRT-3154	Address issue with the connected Clients drop-down doesn't display clients connected to the guest SSID.
OWRT-3019	Address issue with VoIP - Set default 'no answer timeout' when call fwd no ans is both enabled/disabled.
OWRT-3398	Address issue with VoIP Call Park Retrieval, park index on pickup could be incorrect
OWRT-2986	Address issue with VoIP Gain control not working
OWRT-3082	Address issue with VoIP ring signal adjustment
OWRT-2930	Address issue with VoIP using the incorrect default ring cadence
OWRT-2083	Address issue with WPS push button support for SR900ac
OWRT-2983	Addressed by the new coef file tracked under OWRT-3064.
OWRT-3168	Addressed GUI issue on the SR900ac VoIP RX/TX gain values should be negative.
OWRT-2953	Addressed issue in VoIP to Reset voice feature states to their defaults when local handling of the feature is toggled to off.
OWRT-3286	Addressed issue when which caused Intellifi to be re-enabled if AP mode was selected.
OWRT-3044	Addressed issue with certain VOIP phones may detect false ring signal when both lines are not enabled.
OWRT-3054	Addressed issue with LAN clients details not updating properly in the SR400ac
OWRT-3350	Addressed issue with port forwards not being pushed correctly from the ACS
OWRT-3343	Addressed issue with the LAN DHCPv6 Server enable/disable configurations not being saved properly.
OWRT-3007	Addressed issue with the SR400 & SR90x Ethernet MaxBitRate/CurrentBitRate reporting incorrect value from CWMP client
OWRT-3334	Addressed issue with the SR905ac WPS button not properly functioning.
OWRT-2861	Addressed issue with the WAN status reporting DOWN when changing WAN mode from untagged to tagged
OWRT-2952	Addressed issues to support Digest Authentication on the SR90x products.
OWRT-3140	Addressed issues with the DSL and Internet LED's not functioning properly on the SR90x products.
OWRT-3335	Addressed SR400ac Intellifi roaming issue were packets could be dropped.
OWRT-3052	Disabled 5GHz WiFi channels 120,124,128 for Australia.

Release Image for 10.6.3.1

SR400ac:

- Filename: SmartOS-SR400ac-v10.6.3.1.img
- md5sum: 0077b81c16748da00141bb6954bba76a

SR900ac/SR905ac:

- Filename: SmartOS-SR900ac-v10.6.3.1.img
- md5sum: 77aaabdf8f7fad57f7df13e53ab05e23

Revision 10.5.4.1

New Features/Enhancements in 10.5.4.1

- Not applicable; this revision is a hot-fix for 10.5.2.1.

Fixes in 10.5.4.1

Ref ID	Description
OWRT-2477	Addressed problem affecting Upgrade via TR-069

Release Image for 10.5.4.1

SR400ac:

- Filename: SmartOS-SR400ac-v10.5.4.1.img
- md5sum: 8a1f2fe5020909f9fef6a9c5864e1998

SR900ac:

- Filename: SmartOS-SR900ac-v10.5.4.1.img
- md5sum: b7e8ac1361a5f21a1be58712caab7b3c

Revision 10.5.2.1

New Features/Enhancements in 10.5.2.1

- Intellifi Mesh WiFi
 - Zero-touch provisioning of satellites by hub
 - Config synchronization from hub to satellites
 - Auto-generate network topology map
 - Aggregation of network/wireless stats from satellites to hub
 - Firmware management of satellites by hub
 - Auto-discover topology of PL60/MC60
 - Automatic updates (upon request)
- SR900ac POTS v1.0
 - Metaswitch SIP interoperability
 - Advanced telephony feature configuration

- Call trace
- TR-104
- Interop may be needed
- VDSL2/ADSL2+ (Alpha-stage, software available upon request)

Fixes in 10.5.2.1

Ref ID	Description
OWRT-2773	Prevent websocket timeout when webUI user is idle
OWRT-2827	Report current network status of LAN devices
OWRT-1483	WebUI glitches in Access Schedules page
OWRT-2419	WebUI crash following series of quick clicks
OWRT-2691	More accurate webUI progress bars for Reboot, Restore Factory, and Upgrade operations
OWRT-2614	Configuration of DHCP Static Associations in webUI
OWRT-2350	Incomplete 2.4GHz WiFi scan at boot
OWRT-2534	Unable to save Backup Config
OWRT-2030	Stun configuration migration when upgrading from SmartOS 10.3
OWRT-2009	Always disable stund when TR-069 is disabled
OWRT-2384	SR400ac multicast delivery issues with mix of wired and WiFi STBs
OWRT-2278	Correct lower-case MAC in manufacturing data on old hardware
OWRT-2321	Basic Setup page alignment issues
OWRT-2401	Correctly handle 32-character SSID
OWRT-1973	Port forward config not saved when changing port range to port
OWRT-2405	Incorrect uses count on dashboard due to inclusion of inactive LAN hosts
OWRT-2795	Fix edit button on Hosts page
OWRT-1625	ACS erroneously reports duplicate Port Mapping objects
OWRT-2842	Clear Log button not functional in webUI
OWRT-2264	Javascript error on Network->LAN->Devices page
OWRT-2438	Display glitches in WiFi Performance pages
OWRT-2477	Inadequate firmware Image validation for TR-069 upgrade
OWRT-2247	Inadequate firmware image validation for webUI
OWRT-2234	APPLY banner does not appear following enable of Network Protection
OWRT-1794	Duplicate error message following attempted configuration of invalid LAN address
OWRT-2446	Fixed race condition in webUI backend when committing large set of changes

Changes in 10.5.2.1

- WebUI updated look and feel
- WiFi SSID configuration moved from Radio interface page to Wireless Networks page
- Added HTTP proxy
- Added 5G Guest WiFi for SR900ac
- Added display of optic stats on SR900ac

Known Issues/Limitations in 10.5.2.1

- DSL does not yet support ATM encapsulation (DSL only turned on in custom CDT)

Release Image for 10.5.2.1

SR400ac:

- Filename: SmartOS-SR400ac-v10.5.2.1.img
- md5sum: f29e68d90f4341810b4c8d5f7c0433d5

SR900ac:

- Filename: SmartOS-SR900ac-v10.5.2.1.img
- md5sum: cf5eb350880b78294c938eb4888cc74b

Revision 10.4

New Features/Enhancements in 10.4

- WiFi
 - Support for Access Point mode
 - Monitor QBSS Load of adjacent Access Points
 - Advanced Airtime/Performance Monitoring
 - Advanced Airtime Client Performance
 - Support for USB LTE WAN
 - LTE Failover with per-host filtering
- Networking
 - IPv6: Dual Stack
 - Expanded Guest LAN Config options
 - DHCP Option 60 Vendor Class Identifier
- WebUI
 - Challenge Authentication
 - Internationalization: Support for Spanish, French, and German, switchable on the fly
 - Updated Dashboard and improved menu layout
 - Add/Delete webUI pages dynamically based on device state
 - Redesigned Firewall pages to protect users from common mistakes
 - Password recovery help to login page upon login fail
 - Optional auto-logout on inactivity
 - Notification if booted into MFG mode
 - Improved responsiveness for mobile clients
 - Support wired Ethernet hosts in dashboard and top talkers
- Management
 - New CWMP Client and rewritten TR181 DM
 - Expanded data model
 - Axiros and Incognito Interop
 - Add router aliases http://setup and http://router

- Manufacturing
 - Enter MFG mode through button hold sequence
- Network Security
 - Whole Home Ad and Malware Blocking

Fixes in 10.4

Ref ID	Description
OWRT-601	Allowed cancellation of firmware image upload in webUI.
OWRT-1201	Improved validation of user input on SNMP config page.
OWRT-1565	Added Lost Password message/help on webUI login page after authentication failure.
OWRT-1603	Added display of STUN server configuration in webUI.
OWRT-1663	Added Challenge Response Authentication for webUI clients.
OWRT-1710	Prevented persistence of MAC in config when restored to another device.
OWRT-1724	Disallowed addition of duplicate firewall rules.
OWRT-1769	Prevented duplicate confirmation dialogs on webUI Router Access page.
OWRT-1817	Addressed connectivity issue following addition of firewall rules.
OWRT-1913	Addressed alignment of Upgrade button on webUI firmware updates page.
OWRT-1929	Improved image validation message and functionality on upgrade page.
OWRT-1935	Corrected Retry rate calculations to prevent greater than 100% results within GUI statistics.
OWRT-1939	Added max and min limits to VLAN and P-bit fields in Internet WAN and Video WAN pages.
OWRT-1942	Addressed issue on tagged WANs where WAN interface name was not updated consistently across UI.
OWRT-1947	Addressed issues with the Device and Station counters reporting inconsistently.
OWRT-1953	Updated to latest dnsmasq to patch vulnerability.
OWRT-1956	Addressed issue regarding SSID reporting that occurs when changing radio bands.
OWRT-1982	Added Forgot My Password link to Login page.
OWRT-1991	Expanded IPv6 addresses in tables throughout UI.
OWRT-2000	Set auto-logout to optional.
OWRT-2023	Added guest wireless DHCP server settings to UI.
OWRT-2050	Improved top talker functionality on Dashboard.
OWRT-2111	Reduced tiling in video when there is contention in the switch.
OWRT-2132	Reported friendly device name to SHA.
OWRT-2134	Allowed AP mode to be set in Wi-Fi.
OWRT-2153	Prevented Wi-Fi config corruption on power loss during boot.
OWRT-2161	Allowed setting AP mode in web UI QuickStart (to match feature in Wi-Fi QuickStart).

Ref ID	Description
OWRT-2174	Enhanced LAN-LAN throughput performance by allowing user to disable Port Isolation.
OWRT-2194	Set Guest Wireless Enabled toggle to Off when the respective wireless radio is disabled.
OWRT-2211	Addressed issue with SHA not responding to the SR400ac with proper data.
OWRT-2225	Addressed metacharacter handling issue within the router which caused admin and support passwords to be defaulted.
OWRT-2228	Disallowed config of Video port when Port Isolation is disabled.
OWRT-2230	Addressed issue with errors when stopping or restarting processes.
OWRT-2260	Advertise supported WiFi security modes in TR181.
OWRT-2279	Addressed issue with migration from older FW which impacted ACS interop.
OWRT-2296	Changed SHA client to report device ID as base MAC, rather than serial number.

Known Issues in 10.4

None.

Release Image for 10.4

- Filename: SmartOS-SR400ac-v10.4.7.1.img
- md5sum: 2d15e681103dfd07f0bd5af4fbd881d8

Revision 10.3

New Features/Enhancements in 10.3

- WiFi
 - Guest Network
 - Access Point Scan
 - HT40 with OBSS
 - Auto-channel selection
 - Connected Client List
- Parental Controls
 - Content Filtering via OpenDNS Family Shield
 - Time Blocking (per-device and per-group via Access Schedule)
 - Manual pause of device and device-group
- Media
 - Network File Sharing
 - DLNA
 - Cloud Storage Integration (box.com)
- Management
 - Provision ACS URL via DHCP Option 43
 - SmartRG Home Analytics (SHA)
 - Display STUN client config
 - Dynamic DNS
 - DHCP Clients
 - MAC Cloning
- Performance
 - Real-time performance graphs
 - Dashboard
 - QoS options for gaming and Netflix
 - Per-Port Egress Rate Limiting
- IPTV
 - Support for IPTV modes: untagged/tagged/dqtagged WAN + untagged/tagged Video
 - Video Analyzer
 - IGMP Group Memberships
- Other
 - Static Hosts
 - UK WiFi Support
 - Custom WebUI via Custom Defaults and Themes (CDT)

Changes in 10.3

- The LAN MAC is Base-MAC + 1
Ex: If Base-MAC = 3C:90:66:00:12:80, then LAN MAC is 3C:90:66:00:12:81.
- The default password for the “support” user is the last 3 octets of the base MAC, with separating colons, all caps.
Ex: If Base-MAC = 3C:90:66:00:1A:80, then “support” password = 00:1A:80.

Fixes in 10.3

Ref ID	Description
OWRT-541	SR400ac incorrectly reporting up time
OWRT-567	Set default hostname to SR400+<last-4-digits-of-base-mac>
OWRT-587	Addressed issue where remote http authentication was inoperative after “support” account password updated with special ascii characters (via TR-069)

Known Issues/Limitations in 10.3

- IPv6 is disabled in this release

Release Image for 10.3

- Filename: SmartOS-sr400ac-v10.3.8.1.img
- md5sum: 9465f83c9b04ac66df794b3cf11a5334

Upgrade Notes

Upgrading from 10.2.X releases:

- In the Web UI, navigate to **System** -> **Backup/Flash Firmware** to perform upgrade.

Upgrading from 10.3.X pre-releases:

- In the Web UI, navigate to **ADMIN** -> **Update** to perform upgrade.
- After uploading file, select **Reset All Configuration** and click **Upgrade**.

Verify

1. After the device reboots (~5 minutes), press the F5 key to refresh your browser and reconnect to <http://192.168.1.1/>.
2. Log back into the device.
3. Verify the version information in the **Software Version** field.

Technical Support

CPE Issues

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

RMA's

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

Document History

VERSION	DATE	AUTHOR	DESCRIPTION
1.0	12/30/14	Adam Fox	Document Creation
1.1	6/30/16	Adam Fox	Update for SmartOS 10.2.1.1
1.2	6/30/17	Adam Fox	Update for SmartOS 10.3.8.1
1.3	3/5/18	Adam Fox Kurt Diekemper	Update for SmartOS 10.4.
1.4	6/29/18	Adam Fox Kurt Diekemper	Update for SmartOS 10.5.
1.5	8/30/18	Adam Fox Kurt Diekemper	Update for SmartOS 10.5.4.1
1.6	11/29/18	Adam Fox Kurt Diekemper	Update for SmartOS 10.6.x