

## / SOFTWARE RELEASE NOTES

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### SMARTOS 10.5

June 30, 2018

## SmartOS SW Revision Summary

Firmware	Description	Date
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/SR900ac 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/SR900ac 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 10.5

### *New Features/Enhancements in 10.5*

- 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*

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

Ref ID	Description
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

- 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

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

## *Release Image for 10.5*

### 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).
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.

Ref ID	Description
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
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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](mailto: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 Diekempr	Update for SmartOS 10.4.
1.4	6/29/18	Adam Fox, Kurt Diekemper	Update for SmartOS 10.5.