

Araknis x10 Series Routers

Firmware Release Notes



Release Details

Release Date	2022/07/28
Firmware Version	1.2.16
Product SKUs Affected	AN-110-RT-2L1W, AN-110-RT-2L1W-WIFI, AN-310-RT-4L2W

UX Improvements

- Optimized setting application methodology to remove the 20 second “Please wait” message during setting changes.
- Added a confirmation pop-up on the DHCP reservations if the user attempts to navigate away from the page before saving their changes.
- Added support for a static route needed to configure the router for use with the Starlink ISP mobile app.
- Updated the OUI manufacturer database
- (AN-110-RT-2L1W-WIFI Only) Fixed capitalization errors on the Wireless Settings page.
- Enabled IPSec Passthrough by default out-of-box, to support Wi-Fi Calling. (This does not change your current configuration)

Multi-WAN/NSD

- Updated the NSD (Network Service Detection) feature with a full overhaul for Load Balance, Fail-Over, and Log Only configurations.
- Added/Adjusted tooltips for NSD and Multi-WAN usage for clarity on new behaviors and updated scope.
- Fixed an issue with port forwarding where the router would not allow the same external port to be forwarded on multiple WAN interfaces.

DNS

- Fixed an issues where the router’s DNS Proxy service could stop responding to DNS lookups.

Security

- (AN-110-RT-2L1W-WIFI Only) Fixed WPA encryption vulnerability known as **FragAttacks**.
- Fixed a command injection vulnerability that could be exploited with the VPN, ping, and traceroute functions of the device.
- Fixed a security issue with accessing certain product metadata after login has timed out.

VPN

- Fixed an issue where disabling one OpenVPN connection would disable all OpenVPN connections.

- Fixed an issue where the OpenVPN settings appended the service name for 3rd party DDNS services.
- Fixed an issue where OpenVPN could not be used within a subnet without a DHCP server associated.
- Improved the location of the Enable button for OpenVPN for clearer reference.

General Bug Fixes

- Fixed an issue where NAT Loopback would fail on non-/24 subnets.
- Fixed an issue where certain valid WAN IP addresses and subnets were rejected by the router.
- Fixed an issue where, with certain modems, the router could lose the WAN IP address during modem restarts and the router would require a restart to re-establish a connection.
- (AN-110-RT-2L1W-WIFI Only) Fixed an issue where, when upgrading firmware from 1.0.86 to a newer version, in certain WPA-Mixed configurations, wireless settings could become corrupt and the router required a factory reset.
- Fixed an issue where if sorting DHCP reservations by IP Address, the "Add" field for additional reservations was not visible.
- Fixed an issue wherein DHCP reservations for Device Names with invalid characters from the OvrC UI would cause the router's DHCP service to fail.
- Fixed an issue with field validation for .255 IP address in DHCP reservations.
- Fixed an issue with duplicate devices showing up in the client list.
- Fixed an issue where, in a Double NAT scenario, the internally NAT'd Araknis router does not update the DDNS referenced WAN IP address in a timely manner.
- Fixed various concerns around the use of IPv6, as well as IPv6 and Multi-WAN together.
- Fixed issues around NTP, wherein the router would default to Unix Epoch time upon power loss or if the NTP daemon is blocked.
- Fixed an issue with ping tool results on longer tests.
- Fixed an issue where SNMPv3 authentication credentials are lost during firmware upgrade.
- Fixed compatibility issues resulting in inconsistent AirPlay streaming when traffic passes through the router or across VLANs.
- Fixed an issue where SIP ALG may not fully disable when toggled off.
- Fixed an issue with limited connectivity using OpenVPN when load balancing is enabled.
- Fixed an issue where the system would not accept VLAN values larger than 255.
- Fixed an issue with use of the DHCP-PD Toggle for IPv6.
- Fixed misc. routing and DNS resolution related concerns on the back end.
- Fixed log entries on the 110/110W routers to only reference WAN1.

Release Details

Release Date	2021/11/10
Firmware Version	1.0.88
Product SKUs Affected	AN-110-RT-2L1W, AN-110-RT-2L1W-WIFI

Firmware Version	1.1.66
Product SKUs Affected	AN-310-RT-4L2W

Resolved Functional/Local Issues

- Security improvements.

Release Details

Release Date	2020/07/23
Firmware Version	1.1.64
Product SKUs Affected	AN-310-RT-4L2W

Installation Notes

- If router is not operational post-update, please refer to recovery steps in the Recovery Firmware folder of the firmware release package.
- Firmware release package is found on the support tab of the AN-310-RT-4L2W product page on SnapAV.com.

New Features and Improvements

- Added WAN2 Functionality (fail-over and load-balancing).
- Added WAN3 Functionality to Combo Port (LAN4 is now WAN3 as well).
- Added Route Binding.
- Updated VLANs, Port Forwarding, and DDNS to reflect multi-WAN installations.
- Added IPSec Gateway-to-Gateway VPN.
- Added Access Control List (ACL) functionality (with Service Management).
- Added Bandwidth Control functionality (limit bandwidth across WANs on specified IP ranges).
- Updated info bubbles for various features to reflect updates.
- Added protocol selection drop-down for OpenVPN.
- Updated DNS to latest SDK 2.81 with additional improvements for reliability.

Resolved Functional/Local Issues

- Fixed date range expiration issue with OpenVPN key generation.
- Fixed UPnP issues while running various VPN agents and Parallels on Apple computers.

Release Details

Release Date	2020/03/05
Firmware Version	1.0.86
Product SKUs Affected	AN-110-RT-2L1W, AN-110-RT-2L1W-WIFI

Firmware Version	1.0.67
Product SKUs Affected	AN-310-RT-4L2W

Installation Notes

- None.

New Features and Improvements

- Added Hub FoB Mechanism – Latest hub automatically downloads on reboot of the system!
- Added OvrC 3rd party support for following products:
 - APC products: AP8xxx & AP7xxxB series.
 - Triad products: AMS-8 & AMS-24.
 - Doorbird IP Video door intercom.
 - Russound IP Amplifiers.
 - Enhanced support for Integra/Onkyo/Pioneer devices.

Resolved Functional/Local Issues

- High-throughput wireless applications no longer lock up the 110W.

Resolved OvrC Issues

- Fixed issue wherein WEMO devices could cause the hub on the router to reboot.
- Updated Control4 protocol to use the new login credentials on the latest C4 OS 3.1.1.
- Updated Ubiquiti Edgeswitch protocol to watch for and handle additional password prompts.
- Blank hub interface cards no longer display in OvrC.
- Yamaha properly displays firmware information on OvrC.
- Fixed port scan setting inputs and limitations to take the appropriate user inputs.
- Fixed authentication bug preventing open ports from being discovered on some devices/ports (per port scan).

Release Details

Release Date	2019/07/19
Firmware Version	1.0.59
Product SKUs Affected	AN-110-RT-2L1W, AN-110-RT-2L1W-WIFI
Firmware Version	1.0.40
Product SKUs Affected	AN-310-RT-4L2W

Installation Notes

- None.

Resolved Functional/Local Issues

Large Fixes

- Increased available port-forwarding rules on the 310-RT (only) to 200.
- Added support for port forwarding many-many, single-many configurations.
- The system now allows overlapping subnets.
- Router no longer loses the DNS reference.
- Can use DDNS with 3rd-party DNS services and expanded character length to allow for customization.
- DDNS now recovers when static WAN is set with NSD enabled.
- Fixed use of PPTP VPNs with the Shimo client application.
- Fixed DHCP server crashing when NTP option type = "text"
- Low-speed FW upgrades function down to 2.0Mbps.
- No auto timeout on port forwarding page to prevent loss of user-entered data; it now prompts with countdown for exit.
- Fixed issue with using port forwarding while utilizing dhcp relay and static subnets.
- Fixed encryption issue with using PPTP on Windows 10 Pro.
- Fixed rare issue wherein the router would require manual reboot after FW update or recovery.
- DST now falls back or moves forward properly.
- Fixed issue with OpenVPN tunnel connecting but not establishing internet connection.
- System no longer allows the same MAC on multiple reservations within the same subnet.
- DHCP options no longer cause a DHCP server crash when choosing HEX.

Other Fixes

- Edits to static route table.
- Minimum-character check for the MAC address field in DHCP reservations.
- Manufacturer names display properly in the client table.

- Fixed the arbitrary addition of leading and trailing periods for the local DNS page and system name on the System Settings page.
- Fixed false reporting around NSD on WAN 2 without an active link.
- Client devices no longer remain on the client table after removal/reboot.
- Fixed issue with recovery mode; you do not have to take extra reboot steps.
- PPTP align properly beyond 6 cards.
- Fixed issue with system log overflowing with system time service restarts. It is now mitigated to show far fewer of these entries.
- The router's local DNS option properly displays advanced settings for our switches.
- System will not falsely prevent setting port 16000 by claiming it is taken by OvrC.
- Characters display correctly in the OvrC client tables.

Release Details

Release Date	2019/02/12
Firmware Version	1.0.43
Product SKUs Affected	AN-110-RT-2L1W, AN-110-RT-2L1W-WIFI

Installation Notes

- None.

Resolved Functional/Local Issues

Large Fixes

- SSDP/SDDP traffic now traverses the router properly, thus fixing Control4/Sonos/Elan/any other systems that use SSDP/SDDP protocol to communicate.
- Communication between the 2.4 and 5GHz Wireless Clients nows relays properly through the router.
- The config file on the router no longer duplicates MAC addresses.
- Procuring WAN IP/Gateway addresses works properly under various special scenarios.
- Port Forwarding and DMZ now work when using PPPoE on the WAN side.

Other Fixes

- DDNS service name appends properly upon apply or WAN connection status change.
- DDNS service name appends properly when creating an OpenVPN tunnel.
- DDNS service in the UI shows proper information as far as application in progress/failed/success.
- Router no longer offers the DHCP reservation of another device upon device check-in.
- Router no longer improperly shows a validation error on port forwarding rules that are correctly entered.
- The "DHCP Clients Available" quantity on the Clients and Services page now display correctly.
- Fixed issue wherein, even when disconnected and non-static, WAN 1 would hold onto the DNS addresses previously configured to the system.
- Fixed memory leak in the router when running the router at/near max capacity.
- Static routing rules display properly in the static routing table (specifically admin. multicast address 239.0.0.0/255.0.0.0).
- Wireless clients show up properly in the wireless clients list.
- Clients connecting to a PPTP tunnel now receive a gateway.
- Autonomic devices on the network can now update through the routers.
- Fixed ingress and egress of standard and multicast traffic when using inter-VLAN routing.
- Router now recovers automatically.
- Eliminated Telnet exposure without enablement.
- Router now shows up as a bonjour client via network scans.
- Remote management, port forwarding, and UPnP rules now take priority over any DMZ settings.
- SIP ALG function on the Firewall page now works properly.

- Port triggering takes effect when called.
- Fixed issue with using Dual-Stack(IPv4/IPv6) with PPPoE WAN settings.

OvrC Fixes

- OvrC client on the router no longer terminates if a reboot command did not execute fully.
- Fixed future functionality with regards to Wireless-VLAN and Wireless Passphrase settings.
- Port forwarding rules from OvrC now set properly.
- Wireless settings sent from OvrC display properly in the local UI.
- Can use SSH/Telnet tunneling via the hub in the router.
- OvrC client now recovers after an extended downtime (60 minutes).

Technical Support

For chat and telephone, visit snp1.co/techsupport • Email: TechSupport@SnapOne.com.
Visit snp1.control4.com for discussions, instructional videos, news, and more.

Warranty and Legal Notices

Find details of the product's Limited Warranty at snapone.com/legal/ or request a paper copy from Customer Service at **866.424.4489**. Find other legal resources, such as regulatory notices and patent and safety information, at snapone.com/legal/.

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