

Araknis x10 Series Routers

Firmware Release Notes



v1.4.10 & v1.4.11 Release Details

Release Date	2024/02/20 (2024/03/07 for AN-110-RT-2L1W-WIFI)
Firmware Versions	1.4.10 & 1.4.11
Product SKUs Affected	AN-110-RT-2L1W, AN-310-RT-4L2W, AN-110-RT-2L1W-WIFI

How to update the firmware

Note: This is a two-stage firmware upgrade process. Due to security improvements, you may need to refresh the web page, clear your browser cache, or use a private/incognito mode to log in to the router after each update.

Stage 1

1. Verify the router is on version 1.2.25 or 1.3.07.
2. Update the router to version 1.4.10 (refer to the previous note if having issues signing in locally after the update).
3. After the router updates, confirm the router is online in OvrC.

Stage 2

4. After the router shows online in OvrC, update to version 1.4.11 (refer to the previous note if having issues signing in locally after the update).
5. After the router updates confirm the router is online in OvrC.

New features and improvements

- Updated security packages to mitigate potential vulnerabilities.
- Updated the minimum login credential requirements.
- Removed the manual time option for improved OvrC connection reliability.
- Replaced non-functioning NTP servers with operational servers.
- Updated the user-submitted password encoding over HTTP.
- Matched DNS modal behavior across all 3 WAN interfaces.

Resolved issues

- Resolved an issue where the exported config file may save with the wrong name.
- Resolved an issue where the user interface may improperly display link speeds on the AN-110-RT.
- Resolved an issue where the router failed to obtain a WAN IP during startup after extended ISP outages.

- Resolved an issue where a space in the WAN interface name could result in unexpected NSD/ failover behavior, [outlined in this article](#).
- Resolved an issue where short WAN lease times could potentially cause the router to periodically drop the internet connection.
- Adjusted DHCP server options to allow for proper web address for a TFTP server.
- Resolved an issue where creating an OpenVPN configuration would truncate leading zeros in a DDNS address.
- Adjusted the operation of NSD to better accommodate link failover.

Known issues

- If using PPPoE, enabling parental controls through OvrC automatically switches the WAN interface to DHCP mode.
- **When configuring OpenVPN, refer to these Tech Community articles:**
 - [How to Configure OpenVPN on Araknis Routers](#)
 - [OpenVPN Connect App Not Connecting to Araknis x10 Routers](#)

v1.2.25 Release Details

Release Date	2023/02/16
Firmware Version	1.2.25
Product SKUs Affected	AN-110-RT-2L1W, AN-110-RT-2L1W-WIFI, AN-310-RT-4L2W

Resolved issue

- Firmware changes to accommodate security updates in OvrC Pro App 7.3.0

v1.2.23 Release Details

Release Date	2022/12/15
Firmware Version	1.2.23
Product SKUs Affected	AN-110-RT-2L1W, AN-110-RT-2L1W-WIFI, AN-310-RT-4L2W

Resolved issue

- Improved the router's behavior to accommodate short WAN lease times provided by the ISP.

Known Issue

- Using a space in the WAN name can impact NSD failover events. [Read more here.](#)

v1.2.16 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.

v1.0.88 & v 1.1.66 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 issues

- Security improvements.

v1.1.64 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 issues

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

v1.0.86 & v1.0.67 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

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 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 3.11.
- 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).

1.0.59 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

Resolved 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.

1.0.43 Release Details

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

Resolved 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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