



AirLink OS 5.0.86

RELEASE NOTES

About AirLink OS 5.0.86

AirLink OS 5.0.86 is a production release for all AirLink OS-based routers (AirLink XR90, XR80, XR60 and RX55).

Bug Fixes

Cellular

Upgrade issue: Resolved issues with the Preferred Technology setting for Multi APN virtual interfaces. Upgrading from AirLink OS 4.0.x to 5.0.86 will set the preferred technology to Auto unless every virtual interface specified the same preferred technology, in which case that will be used instead. If a preferred technology is required for your deployment, Semtech recommends setting it to the same value on each AirLink OS 4.0.x virtual interface before upgrading to AirLink OS 5.0.86.

Upgrade issue: Resolved an issue where the router's SIM configuration and corresponding radio module would be reset to defaults upon upgrade from AirLink OS 3.1 or 4.0.

RX55 and XR60: Resolved an issue where SLOT 2 could not be selected for SIM templates with the Association Type "slot ID".

Networking

Upgrade issue: Resolved an issue where a configuration template that included the "Any Bridges" zone would cause errors when the template was applied.

Upgrade issue: Resolved an issue where migrating a custom network monitoring rule from AirLink OS 4.1 to 5.0 resulted in the zone becoming invalid.

Resolved a Network Watchdog issue causing cellular connectivity instability on a router configured in IP Passthrough mode. The issue caused restarts of the device when a Ping timeout attempted to restore connectivity.

Resolved an issue with network disconnects in IP Passthrough mode by improving IP Passthrough logic to handle cellular network provider-initiated disconnects.

Wi-Fi

Upgrade issue: Resolved an issue where a Wi-Fi SSID containing a [or] character would fail to be preserved following an upgrade to AirLink OS 5.078, causing loss of Wi-Fi connectivity to any SSID with the affected characters.

Upgrade issue: Resolved an issue where an upgrade from AirLink OS 4.0 to 4.1 reset any manually configured Wi-Fi SSID priorities to their default values.

ALMS

Resolved an issue where it was possible to enable Hybrid Cloud on the router when an invalid/corrupted root certificate was installed in the Hybrid Cloud CA slot (under System > ALMS > Hybrid Cloud), or when no root certificate was installed.

Telemetry

Upgrade issue: Resolved an issue where Remote Location Reports were not properly migrated after upgrading from AirLink OS 4.1 to 5.0.

Upgrade issue: Resolved an issue where Telemetry Custom Power On and Power Off reports were deleted after upgrading from AirLink OS 4.1 to 5.0.

User Accounts

Upgrade issues: Resolved issues where access to the configuration WebUI using LDAP, RADIUS, or TACACS+ authentication failed after upgrading the router to AirLink OS 4.1.

Known Issues

Radio Module Firmware

AirLink XR60 EM9291 Radio Module Firmware includes GENERIC, T-MOBILE, AT&T, and VERIZON firmware. Although it appears that EM9291 ROGERS firmware can be added in the Radio Module Image Management store, the firmware will not be populated. Radio Module Firmware for ROGERS will be included in a later release.

Wi-Fi

An issue exists where the router, when DUAL BAND CLIENT CONNECTION is enabled, does not connect to remote access points according to the priority settings in the Client SSID database.

XR60: There is a window of 30 minutes after the router Access Point (AP) detects RADAR activity that the AP cannot access DFS channels. During this window the AP remains in the "configuring" state after enabling, disabling, or configuring the interface. The workaround is to restart the XR60.

Networking

Upgrade issue: An issue exists where Multi-WAN rules that are applied to IPsec tunnel policies are deleted after upgrading to AirLink OS 5.0.86 from 4.0.x or 4.1.x.

ALMS

An issue exists where a user-created dataset included in a user-created report with an "On Period Trigger Condition" will display its status in the DATASETS table as not in use by any rule after an upgrade from AirLink OS 4.1. However, the report and dataset are still sent to ALMS after upgrade.

Templates

While in Template mode, actions such as changing the Local User password, reboot, software update, reset to factory default, or ping/traceroute commands can still take effect and apply to the router, and these actions will persist after leaving Template mode.

While in Template mode, it is possible to enter and save passwords and passphrases that violate minimum/maximum length and character restrictions, causing errors when the template is applied.

Upgrade Notes

Semtech has tested and validated upgrading to AirLink OS 5.0.86 from the following release:

- 5.0.71 (XR60 only)
- 5.0.65
- 4.1.33
- 4.1.26
- 4.0.23

Your routers must have AirLink OS 4.0 or later installed before they can be upgraded to AirLink OS 5.0.86. Direct upgrade to AirLink OS 5.0.86 from AirLink OS 3.1 and earlier is not supported.

Upgrade Path Matrix

If the router is running AirLink OS version...	Upgrade to...	Notes
2.0.49 2.0.52	3.0.35	Upgrading directly from 2.0.49/2.0.52 to 3.1.26 or 4.0 will fail, resulting in radio module failure and WAN disconnection.
2.1.30	3.1.26	Downgrading from 3.0 to 2.1 is not supported.
3.0.35 3.1.24 3.1.26	4.0.23	
4.0.23	5.0.86	
4.1.x	5.0.86	Downgrading from AirLink OS 4.1 to an earlier build is not supported.
5.0.46 5.0.71 (XR60 only)	5.0.86	AirLink OS 5.0.46 for XR60 routers from the factory displays a banner and login screen text highlighting that it is not suitable for production use. After an upgrade to 5.0.71 or 5.0.86, the login screen text will persist until a reset to default is performed.
5.0.49 5.0.65	5.0.86	

Semtech recognizes that our customers deploy devices in a wide range of network environments with varying configurations. It is always good practice to install a new AirLink OS release with the planned operation workflow on a few trial devices to ensure that standard operation is maintained within your environment before deploying the new release across your fleet of AirLink devices.