



»» | ALEOS 4.5.1 Release Notes

The ALEOS 4.5.1 release is for AirLink GX450 and AirLink ES450. It is not compatible with AirLink LS300, AirLink GX400, AirLink GX440, or AirLink ES440.

Once you have updated to ALEOS 4.5.1, you cannot downgrade to earlier versions of ALEOS.

Refer to the ALEOS Software Configuration User Guide for update instructions.

Note: Gateway logs will be erased as part of the ALEOS 4.4.2 to ALEOS 4.5.1 upgrade. Customers who need the historical logs should make a copy before performing the upgrade.

Note: If you are using ACEmanger to update ALEOS, an extra step is required to accommodate a new feature—Network Operator Switching—which includes storing radio module firmware on the gateway. Install ALEOS 4.5.1 and allow the gateway to reboot. The network LED will be flashing amber/red, indicating that the appropriate radio module firmware is not stored on the gateway. Install the appropriate radio module firmware for your gateway and mobile network operator. The firmware is placed in the Network Operator Switching firmware store, and if necessary, installed on the radio module. Once the gateway reboots again, the update is complete.

If you are using ALMS for the update, the extra step to place the radio module firmware in the Network Operator Switching store is not required.

Note: The First Host Gets Public IP option in the Host Connection Mode field on the LAN > DHCP Addressing screen is deprecated and will be removed from ALEOS 4.6.0 onwards.

Important: The default setting for remotely accessing ACEmanger (Services > ACEmanger) has been changed to "Disable".

New Features

ALEOS and Radio Module Firmware

Network Operator Switching support added for Telstra on radio module MC7304

Sprint platform only: updated Sprint radio module firmware to 05.05.63.01

ALEOS and Radio Module Firmware Update Process

While the gateway is rebooting as part of the ALEOS and radio module firmware update, a new window appears, indicating that the reboot is in progress. Once the reboot is complete, the Login screen appears.

Status

Removed support for incremental upgrade packages; Status > Home > Installation Type was removed

A new Active Frequency Band field added to the Status > WAN/Cellular screen indicates the active frequency band (e.g. LTE Band 4).

The Power State field was removed from the Status > Services screen.

WAN/Cellular

Network Operator Switching—AirLink gateways with ALEOS 4.5.1 come preloaded with more than one version of radio module firmware. When the gateway is powered on, it checks the stored radio module firmware versions and automatically uses the firmware that is appropriate for the installed SIM card.

A new “Set Carrier (Operator) Selection” field was added to the WAN/Cellular screen to allow users to manually specify an operator. This field is intended to restrict unwanted roaming.

Security

Access to diagnostic and AAF development accounts is disabled by default.

The AirLink Management Service (ALMS) default URL now uses TLS protocol security by default. The new URL is <https://na.m2mop.net/device/msci/com>.

All passwords are now hidden in ALMS and ACEmanager.

The number of port forwarding rules has been increased to 48.

User accounts are temporarily locked if there are too many failed login attempts.

GPS (GX450 only)

GPS Global Settings is now the first item in the left menu (above Server 1).

Admin

The new Admin > Radio Module Firmware screen allows users to manage the radio module firmware stored on the gateway.

The new Software and Firmware log subsystem gathers logs related to ALEOS updates, radio module updates, and Network Operator Switching, some of which were previously logged in *System* and *ALMS*.

When users select “Preserve Cellular Authentication Settings” in the Reset Mode field (Admin > Advanced), the Network Operator Switching settings are preserved over a reboot.

Network Operator Switching: The Network LED flashes yellow/red if firmware associated with the SIM card is not stored on the gateway.

Miscellaneous

UI—AirVantage Management Service (AVMS) renamed to AirLink Management Service (ALMS)

Bug Fixes

Common Vulnerabilities and Exposures (CVE®)

Disabled the RC4 cipher algorithm and enabled DHE and ECDHE to mitigate possible issues related to CVE-2013-2566

Updated the firmware to mitigate possible issues related to CVE-2015-0235, aka "Ghost"

Updated the firmware to mitigate possible issues related to CVE-2014-3566 and CVE-2014-8730, aka "Poodle"

Updated the firmware to mitigate possible issues related to CA-2000-02

User Interface

Clarified the field names related to remotely accessing ACEmanager, and set the default value for remote access to "Disable"

The "Use CTS" field was removed from the Serial > Advanced screen.

WAN/Cellular

The back-up APN is now limited to 100 characters, as per the 3GPP specification.

Auto APN is disabled on the Verizon Wireless and Sprint networks.

Fixed a keepalive ping problem. The gateway now uses the configured interval after a successful test or configuration change. Keepalive Ping no longer needs a reboot after configuration.

LAN/Wi-Fi

GX450 only Fixed a problem where ALMS was not displaying the Wi-Fi tab for GX450 gateways with a Wi-Fi X-Card installed

GPS (GX450 only)

The Diversity/GPS Antenna Bias field was removed from the UI.

Security

The ACEmanager default certificate signature algorithm was upgraded to SHA-256, and the key size was increased to 2048. Alternative names were added to mitigate the name mismatch error.

Admin

Added three new levels to VPN logging: Error, Warning and Notice (Default is Warning.)

Added additional information to log messages to aid Sierra Wireless in troubleshooting issues

Miscellaneous

Fixed an issue with the LED pattern on reboot

Added additional radio module diagnostic data collection