# ALEOS 4.11.1 Release Notes

ALEOS 4.11.1 is for AirLink® LX40 and LX60 Series routers. The AirLink LX40 is a compact LTE and LTE-M / NB-IoT router for IoT/M2M applications.

## New Features

### Radio Modules

With release 4.11.1, both the LX60 and LX40 support the following radio modules:
WP7601
- Verizon: SWI9X07Y_02.10.00.00

WP7603
- Generic: SWI9X07Y_02.10.01.00
- AT&T: SWI9X07Y_02.10.01.00

WP7607
- Generic: SWI9X07Y_02.16.02.00

WP7609
- Generic: SWI9X07Y_02.18.05.00

WP7702
- AT&T: SWI9X06Y_02.16.06.00
- Generic: SWI9X06Y_02.16.06.00

*Note: For LTE-M/NB-IoT (WP7702) AirLink routers: Due to the lower data rates supported by LTE-M/NB-IoT networks, over-the-air software updates can take an extended period of time. When using a Windows PC and ACEmanager to update ALEOS software over-the-air, please ensure that sleep and low power states are disabled on the PC so that the file transfer is not disrupted. Under these conditions, the ALEOS upgrade may take between 3 to 5 hours.*

*Sierra Wireless recommends using ALMS or AMM for remote software upgrades.*

### ALEOS AT Commands

The LX40 USB port is used for AT commands.

### Cellular

Added LTE IoT Operating Mode (displayed in Status > Cellular > Advanced).

### Wi-Fi

LX40 Wi-Fi model indicates Wi-Fi status on the Network LED. See "LED Behavior" in the AirLink LX40 Hardware User Guide for more information.

### Location

LX60: The Location Status in ACEmanager now also shows the GPS antenna status:
- Connected
- Open
- Shorted

### Logging

Added the ability to download logs in a compressed format to optimize data usage.

### POE

LX40 supports Power over Ethernet (PoE). When both $V_{in}$ and PoE are available, the device uses PoE. When using PoE, the device can never enter standby mode via the On/Off control line.

# Security Enhancements

### Security and CVE Vulnerabilities

Addressed potential vulnerabilities related to CVE-2018-1000122 (see https://nvd.nist.gov/vuln/detail/CVE-2018-1000122)

### General

Enhanced security of remote access operations.

An option to set the minimum TLS version is now available under Admin > Advanced.

# Bug Fixes

### ACEmanager

Resolved an issue where the top row of command buttons were appearing inconsistently when switching between tabs.
- The Defaults button no longer appears in the Status, Wi-Fi, or Events Reporting tab when switching from the Log submenu.
- The Delete button no longer appears in the Status tab when switching from the Events Reporting tab.

### Wi-Fi

LX60: Resolved an issue where more than one Access Point was shown on the Status > Wi-Fi page.

Resolved an issue where an invalid (fewer than 7 characters) Client Password for WPA/WPA2 Personal would disappear after clicking Apply. A notification that the password must be between 8 and 125 characters will now appear after an invalid password is entered.

The default setting for "Allow Clients to See One Another" is now Enable.

*Note: Resetting the device to factory default will enable this feature.*

### VLAN

Resolved an issue where the VLAN bridge MAC address did not match the AirLink MAC address.

### Events Reporting

LX60: Binary, XML and CVS are now available in the Actions Type list for Events Reporting.

### Logging

Resolved an issue where a log message incorrectly reported the radio module temperature level.

To reduce flash usage, certain statistics for VPN tunnel are no longer available in the logs.

### Services

Fixed a race condition issue with SSH key generation.

### Ethernet

MAC address is now displayed correctly in the Status > Ethernet field.