

ALEOS 4.11.0 Release Notes

ALEOS 4.11.0 is for AirLink MP70 Series routers. It is not compatible with RV50, GX450 and ES450 gateways.

New Features

Radio Modules

Supports EM7565 and EM7511 radio modules.

EM7511 firmware version:

- Generic, AT&T: SWI9X50C_01.07.00.00

EM7565 firmware version:

- Generic: SWI9X50C_01.07.02.00

Updated firmware for the following radio modules:

MC7455

- Generic: SWI9X30C_02.24.05.06
- AT&T: SWI9X30C_02.24.05.06
- Sprint: SWI9X30C_02.26.01.00

MC7430

- Generic: SWI9X30C_02.26.01.00

ACEmanager

A notification prompts you to change the password if you are using the non-unique default password to log in to ACEmanager.

The minimum password length has increased to 8 characters, and the default for Maximum Login Attempts has been set at 3.

Vehicle Telemetry

Users can now upload and download telemetry configuration files. In ACEmanager, this option is located under Services > Vehicle Telemetry > Advanced.

Added odometer reporting for certain vehicles. When Direct Vehicle Bus (CAN) Support is enabled in ACEmanager, the odometer value is visible under Services > Vehicle Telemetry > General.

A detected change in the Vehicle Identification Number will result in the erasure of the GNSS calibration and a reset of the GNSS module.

Enabling vehicle telemetry data collection in ACEmanager has been combined with selecting the router's ignition line configuration.

LAN

Restored the use of DHCP Option 33 for adding static routes.

Added a fully configurable subnet mask for setting the IP Passthrough Default Gateway.

Reset Mode

A new Reset Mode has been added to the Reset to Factory Default command in ACEmanager:

- Preserve Only User Password—All settings except the ACEmanager (user) password are returned to the factory default values.

A long press of the device Reset button behaves the same as “Reset All” (resetting all settings and passwords). Previously, a long press of the Reset button reset the device according to its configured Reset Mode.

WAN/Cellular

Added an option in ACEmanager to support MSS (Maximum TCP segment size) clamping TCP connections inbound/outbound from/to the Cellular WAN interface.

The setting is located under WAN/Cellular > WAN/Cellular > Advanced. Default is “Enable”.

The Turn Off NAT setting has moved from the Ethernet tab to the WAN/Cellular tab.

ALEOS AT Commands

Added RMFWSWITCH command to enable firmware switching without reboot.

Logging

There are now three separate logging subsystems for serial: RS232 Serial, RS485 Serial, and USB Serial. USB Serial is only available when USB Mode is set to AT. RS485 Serial is only available on LX60 devices.

Serial

Added TCP Persistent Connection settings to introduce an auto-connect mechanism for TCP PAD mode.

Services

ALEOS supports an openvpn management tunnel to be used by AMM.

XML library is now included in the AAF Lua framework.

Security Enhancements

Security and CVE Vulnerabilities

Addressed potential vulnerabilities related to CVE-2016-2148 (see <https://nvd.nist.gov/vuln/detail/CVE-2016-2148>)

Addressed potential vulnerabilities related to CVE-2016-7117 (see <https://nvd.nist.gov/vuln/detail/CVE-2016-7117>)

Addressed potential vulnerabilities related to CVE-2017-8816 (see <https://nvd.nist.gov/vuln/detail/CVE-2017-8816>), CVE-2017-8817 (see <https://nvd.nist.gov/vuln/detail/CVE-2017-8817>), CVE-2018-1000007 (see <https://nvd.nist.gov/vuln/detail/CVE-2018-1000007>)

Addressed potential vulnerabilities related to CVE-2016-3739 (see <https://nvd.nist.gov/vuln/detail/CVE-2016-3739>)

General

Enhanced security of remote access operations.

Bug Fixes

ACEmanager

The setting for remote access to ACEmanager applies to both IPv4 and IPv6.

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.

Resolved an issue where negative RSSI values were not accepted.

Resolved an issue where the address entered in Admin > Advanced > Status Update Address caused XML reports to fail.

Status

Carrier Aggregation Indicator under Status > Cellular > Advanced now reports "Information Not Available" instead of "Invalid" when no secondary band information is available.

Resolved an issue where Persisted Bytes Sent/Received statistics would not increment past 4 GB.

LAN

Resolved an issue where ICMP redirect messages for INVALID state traffic were not sent over LAN interfaces.

PPPoE connection will no longer drop when cellular connection is lost.

WAN/Cellular

Response to Incoming Ping is now working correctly when set to either ALEOS Responds or Pass to Host.

Resolved an issue with DMZ traffic routing when No NAT was also enabled.

Wi-Fi

Added an option to disable 802.11w support, allowing older Apple devices to connect to the access point. The default setting for 802.11w support continues to be Optional.

Resolved an issue where LAN info was shown on the Wi-Fi status page when the MP70 was in Client (WAN) mode.

GPS

Addressed the GPS 2019 Rollover issue by ensuring that GPS time used for NMEA and system time remains accurate after a GPS system offset reset occurs.

ALEOS AT Commands

The AT+COPS command is now allowed a longer period of time to complete successfully, so that Carrier Operator Selection would work correctly under all circumstances.

Events Reporting

Pulse Accumulator 1 can now be selected in the Events Reporting events list.

Logging

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

Resolved an issue where device logging was failing to get the status of "CAN Bus existence".

Serial

Resolved an issue where serial data on DB9 during startup caused the device to reboot.

VPN

Resolved an issue where user-uploaded SSL VPN certificates and key files were not preserved across reboots.

Resolved an issue where some VPN tunnels did not carry traffic when using default split tunnel settings.

Resolved an issue where the primary or secondary VPN did not reconnect after a cellular connection outage, when VPN Failover was used.

Applications

Resolved an issue where the available RAM reported in Applications > ALEOS Application Framework was not being calculated accurately.

Resolved an issue where the Copy Configuration feature in AMM reported an "insufficient permissions" error.

Resolved an issue where the ALMS Device Initiated Interval could be reset to default with ALMS Protocol set to "Try LWM2M, Fallback MSCI" after connecting to ALMS on LWM2M.

SNMP

Resolved an issue where the MIB file from the Source was not being parsed correctly.

Known Issues

ACEmanager

When using Microsoft Edge on Windows 10, ACEmanager may sometimes incorrectly display a Radio Module Update banner. This will be addressed in a future release.