

ALEOS 4.18.1

RELEASE NOTES

About ALEOS 4.18.1

This release of ALEOS 4.18.1 is for the AirLink[®] MP70, RV50X, RV55, LX40 and LX60, and adds updates to comply with the European Union Radio Equipment Directive (RED) cybersecurity requirements. These release notes describe new features, security enhancements and bug fixes that apply to this release.

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Customer Recommendations for ALEOS 4.18.1

- For customers using SNMP, Semtech recommends using the alternative OIDs (Object Identifiers), as the deprecated OIDs could be removed on the next update of the MIB (Management Information Base) file for remote SNMP clients. The MIB file is available on the [Semtech Source](#).
- For customers using OpenVPN, Semtech may deprecate OpenVPN support for the 64-bit Blowfish encryption algorithm in a future ALEOS release, or if security updates are required on the OpenVPN package. Semtech recommends that you migrate any existing Legacy VPN implementations (including OpenVPN) to the Standard implementation for increased features and support.

New Features

Radio Module Firmware

Updated firmware for the following radio modules:

EM7511:

- Bell: 01.14.22.00
- Generic: 01.14.22.00

EM7565:

- Generic: 01.14.22.00
- Telstra: 01.14.22.00

WP7607:

- Generic: 02.37.06.05

WP7609:

- Generic: 02.37.06.05

MC7455:

- ATT: 02.32.11.00

Security Enhancements

Security and CVE Vulnerabilities

Addressed potential vulnerabilities related to [CVE-2022-48174](#).

Bug Fix

Radio Module Firmware

Resolved performance issues when loading the ACEmanager Admin > Radio Module Firmware page on AirLink LX40 and LX60.

Upgrade Notes

Warning: *Upgrading from ALEOS 4.15.x and earlier releases to 4.18.1 is not directly supported. All ALEOS-powered routers must be upgraded to ALEOS 4.16.0 before upgrading to a release later than 4.16.0. ALEOS 4.16.0 includes enhancements that must be applied before upgrading to a later release.*

Note: Please note that ALEOS-powered AirLink routers will be offline during a firmware upgrade. With a combined ALEOS firmware and radio module firmware update, the offline period may be several minutes or more.

Semtech encourages all customers to maintain their AirLink routers with the current ALEOS release and security patches via our AirLink Management Service (ALMS/AMM). Semtech tests and validates upgrades from the previous two major software releases. If you have routers running an ALEOS release older than the previous two major releases it is recommended that you follow the tested and supported upgrade path.

In addition, other than basic questions that can typically be answered in our existing product documentation, Sierra will only provide technical support for the current and the previous two major software releases via our technical support organization. For example, the current version of ALEOS is 4.18.1 and we continue to support ALEOS 4.18.0 and ALEOS 4.17.x.

If you have a support issue with a version prior to ALEOS 4.17.x, you will be asked to upgrade to a supported version before engaging our technical support organization.

If you need to downgrade a router, you must first perform a factory reset, then install the downgraded version and then perform a second factory reset. We do not provide technical support on routers that have not been factory reset before and after a downgrade has been performed.

Refer to the table below for the supported ALEOS versions and upgrade paths.

ALEOS Release	Support Level	Upgrade Path
ALEOS 4.18.1	Supported	n/a—This is the currently released version
ALEOS 4.18.0	Supported	Upgrade to 4.18.1
ALEOS 4.17.x	Supported	Upgrade to 4.18.1
Previous ALEOS Releases	Limited support. Upgrade to a supported release for technical support	Upgrade to supported release

Note that downgrading to older ALEOS versions from ALEOS 4.15.2, ALEOS 4.15.3, and ALEOS 4.15.4 on specific routers is prevented because specific newer routers contain hardware components (substitutions) that are not supported on older versions of ALEOS.

Note: Semtech recognizes that our customers deploy routers in a wide range of network environments with varying configurations. It is always good practice to install a new ALEOS release on a few trial routers to ensure that standard operation is maintained within your environment before deploying the new release across your fleet of AirLink routers. For more information, please see the application note [Testing AirLink Devices Before Deployment](#).