ALEOS 4.4.9 Release Notes

ALEOS 4.4.9 is for AirLink LS300, GX400, GX440 and ES440 gateways.

New Features

ALEOS Application Framework	
	ACEmanager displays a warning banner when AAF development mode is set. For security reasons, it is recommended to not deploy the gateway with development mode enabled.
ACEmanager	
	A notification prompts you to change the password if you are using the default password to log in to ACEmanager.

Security Enhancements

General	
	To enhance system security, the server that AAF Developer Studio uses to load and debug ALEOS Application Framework applications must be manually enabled. To use AAF Developer Studio after upgrading to ALEOS 4.4.9, enable the new **ALEOS Application Framework Development Mode** setting on the Applications > ALEOS Application Framework page.
	Prevented reading files via the tcpdump -V command in iplogging.
	Removed default SNMP user credentials.
	Fixed potential buffer overflow issues.
	Reworked parser bounds-checking to mitigate potential data exposure.
	An option to set the minimum TLS version is now available under Admin > Advanced.
	Prevented Reverse SSH from being used to proxy network traffic.
Security and CVE Vulnerabilities	
	Addressed potential vulnerabilities in keepalived related to CVE-2018-19115.
	Updated picocom to address CVE-2015-9059.
	Removed iperf to address CVE-2016-4303.
	Updated flex to address CVE-2016-6534.
	Addressed potential vulnerabilities in pppd related to CVE-2020-8597.

Updated tcpdump to address the following:

- CVE-2018-14468
- CVE-2018-14879
- CVE-2018-14880
- CVE-2018-14881
- CVE-2018-14882
- CVE-2018-16227
- CVE-2018-16228
- CVE-2018-16229
- CVE-2018-16230
- CVE-2018-16451
- CVE-2019-15166
- CVE-2017-16808
- CVE-2018-16452
- CVE-2018-19519
- CVE-2019-1010220

Updated curl to 7.65.3 to address the following:

- CVE-2018-1000300
- CVE-2018-0500
- CVE-2018-16839
- CVE-2018-16840
- CVE-2018-16842
- CVE-2018-1000301
- CVE-2019-5443
- CVE-2019-5481
- CVE-2019-5482

Bug Fixes

WAN/Cellular	
	Corrected behavior where IP Manager would stop sending periodic updates after some uptime. IP Manager now sends periodic updates correctly.
	Resolved an issue where some signal levels were not reported correctly.
LAN	
	Resolved an issue where Link Radio Coverage to Ethernet was not working.
Serial	
	Resolved an issue where an initial attempt to establish a PAD connection to an FQDN would fail when serial was in TCP or UDP mode.
SMS	
	Fixed the ability to send SMS with comma-separated text via AT commands.
GPS	
	Resolved an issue that caused a lag in GPS reporting.
ALMS	
	Resolved an issue that prevented the GX440/ES440 radio from being set to “LTE Only”.

AT Telnet/SSH

Resolved an issue where accessing the AT Telnet/SSH feature was able to bypass the Trusted IP/Friends List restriction.

Known Issues

AIrLink Mobility Manager

Data usage limits (Daily Limit and Monthly Limit) cannot be set using AMM and ALMS templates. These fields can be still be set via ACEmanager templates.