

>> | ALEOS 4.3.6 Release Notes

The ALEOS 4.3.6 release is for ES440, GX Series and LS300 devices. Refer to the ALEOS Software Configuration User Guide for update instructions.

New Features

Status

Added a CDMA functionality test status field—GX440 and ES440 for Verizon Wireless (MC7750) only

Added bytes sent and bytes received counters that persist across device resets

Template

Reworked template system to be more human readable and more reliable

Dynamic Mobile Network Routing

Implemented DMNR primary access mode for AirLink Verizon Wireless SKUs

Telnet

Added the option to pre-select the user name when telnetting to an AirLink device to save a step during log in (only password needs to be entered)

For backward compatibility with Raven devices, we have added support for the command AT*TQUIT which will close an open telnet AT command session to the LS300 or GX4x0 device.

Reverse Telnet

Modified reverse telnet to automatically close any previous session when a new session is started

Security

Added the option to enable ACEmanager authentication using TACACS+, RADIUS, or LDAP

PPP mode now supports ACCM negotiation.

Added the option to retain network connection settings during a reset to factory default settings

SMS

Added support for Class 0 SMS

AirVantage Management System (AVMS) ALEOS Application Framework (AAF)

ALEOS Application Framework now uses AirVantage Agent 10.

Improved downloading process during AAF application updates

The M3DA server URL is now derived from the AVMS server URL, and the M3DA communication period is now equal to the AVMS communication period.

Added AT commands *AAFINSTALL and *AAFUNINSTALL to install, list and uninstall AAF applications

ACEmanager

Added an option to configure the ACEmanager session idle timeout

LTE Reselection

The MC7700 and MC7710 radio modules now support reselection back to LTE by temporarily pausing uplink data allowing the radio module to go into an idle state. Note: in order for a device to reach the idle state, traffic in both directions must be paused.

GPS

GPS functionality can now be disabled on all platforms that support GPS.

Logging

When ALEOS reboots, the device's serial number is displayed in the logs under the ALEOS banner.

Miscellaneous

The GX440 MC7750 radio module was updated to version 3.05.10.13.

Bug Fixes

Status

Correct Cell ID is now displayed in ACEmanager for all network types

Reverse Telnet

When a reverse telnet session is opened, the serial information for the port (speed, parity, number of data bits, and flow rate) is displayed correctly.

SMS

AirLink ES440/GX440 now support sending SMSs on RoW networks.

AirLink GX440 devices with radio module MC7700 now support using the @ symbol in an SMS.

You can now provision a device via an SMS command, even if the AirLink device does not have data connectivity.

AirVantage Management Service (AVMS) ALEOS Application Framework (AFF)

M3DA password negotiation (using the M3DA provisioning password) has been removed to address synchronization issues. The M3DA password is now directly accessible via ACEmanager.

AAF is now able to better handle variable network conditions. Traffic destined for the server is buffered if the network is unavailable.

Fixed an issue with changing device Status screen parameters from AVMS

ACEmanager

Fixed an issue with ACEmanager OTA access using HTTPS on a GX/LS in public mode

Fixed an issue with accessing ACEmanager using Internet Explorer 8

GPS

The AirLink LS300 sometimes loses a GPS fix over time. If the GPS fix is lost for more than one minute, GPS tracking mode restarts automatically.

Wi-Fi

Fixed a problem where the GX device in Wi-Fi client mode did not set up the default gateway properly when DHCP relay agent was used

Fixed a problem with the Wi-Fi Client Manual mode Connect/Disconnect button

Fixed a bug where LS300 devices (which do not come equipped with Wi-Fi but share common code with the GX4x0 products which do) were, under some circumstances, incorrectly logging Wi-Fi related errors which would quickly fill the logs, leaving no room for other more important log messages.

Low Power Mode

Fixed an issue with GX/ES low power mode where the periodic timer stopped working and the device was unresponsive until it was reset

Fixed an issue where the LS300 would sometimes not exit low power mode

VPN

Fixed an error that caused the split tunnel settings to not work correctly

Miscellaneous

Modified time update to use the following sources in order of priority: SNTP, GPS, mobile network

Fixed an issue in TCP/UDP PAD mode where the AT command socket was being held open for 10 seconds after disconnection, blocking further connection attempts

Fixed an issue where the device rebooted periodically when the hardware flow control was activated without a serial device connected

Fixed a bug that was preventing the Serial Port Data Forwarding Timeout from working correctly

Removed confusing "Session is not valid" log message that appeared when the ACEmanager session timed out

Time Of Day Reset now accepts UTC offset value in the range [-12, 12].

On the Status > Home screen, changed "Certified Mobile Network Operator" to "Radio Module Identifier" to more correctly reflect that this parameter identifies the installed radio module

Fixed an issue where on occasion the engine hours displayed on ACEmanager could jump ahead by an unpredictable amount once per minute

Fixed an issue that was preventing the No NAT feature from operating

Fixed multiple reboot problem on LS300 when Time of Day Reset was enabled

Increased the number of radio module detection retries to resolve an issue where ALEOS was rebooting prematurely while the radio module was recovering from a flash file system error

ALEOS devices now correctly use a virtual MAC address instead of the physical MAC address as specified in the VRRP RFC 3768.

Added a way to disable the replacement of the source port number in all outgoing NAT'ed UDP packets with the value configured in the Starting Ephemeral Port field on the LAN > Ethernet > Advanced screen. The field now only appears when the new field "Ephemeral Port" is set to "Enabled". If the "Ephemeral Port" setting is "Disabled", ALEOS does not replace the port number with the Starting Ephemeral Port number.

Other

Fixed an issue where the X-Serial fields were not being displayed on the Status > Serial screen when an I/O X-card was installed

Fixed multiple browser compatibility issues with Internet Explorer® 8, 9 and 10 and Firefox®

Fixed an issue where in RAP + Reliable mode, some RAP commands generated no response and/or did not work

Removed duplicate operator info logging messages

Fixed an issue where SNMP sysUpTime OID was incorrectly resetting

Fixed an issue where the network user ID connection was failing

Updated a number of AT Command response strings to match responses provided by NucALEOS

Fixed an issue where ALEOS could not save DDNS IP Manager Server Keys of more than 16 characters

Known Issues

- When installing a template that was created using a pre-4.3.6 version of ALEOS, the ToD Reset: Time Zone Offset from UTC field on ACEmanager's Admin > Advanced tab will not be updated if it was part of the old template. This field needs to be manually entered or a new template created for it using the new ALEOS version 4.3.6.
- When a GX device (with a Wi-Fi X-Card installed) has the Wi-Fi mode set to Both (AP + Client), packets being sent from the connected device to the GX are dropped when the GX device loses its connection to an Access Point (AP) and is scanning for another available AP. The GX scans for each configured AP for 3 seconds. If it has not found an available AP after scanning for all the configured APs, it waits 10 seconds before beginning again from the top of the list to scan for an available AP.

To help alleviate this problem, a Wi-Fi AP rescan timeout field was added to ACEmanager. This field allows you to increase the time that the GX device waits before beginning again from the top of the list to scan for an available AP. You can increase the Wi-Fi AP rescan timeout to a maximum of 3600 seconds (1 hour).