

>> | ALEOS 4.4.0 Release Notes

The ALEOS 4.4.0 release is for AirLink ES440, GX Series, and LS300 devices. Refer to the ALEOS Software Configuration User Guide for update instructions.

New Features

Template/ UI

Added tooltips with minimum, maximum and default values to the majority of numeric value fields

The Include Device Info option, which includes a “snap-shot” of the current Status tab in the template file, is now selected by default.

Status

The type of ALEOS installation (Full or Incremental) is now shown on the Status > About screen in a new field called Installation Type.

The radio technology type (HSPA, LTE, etc.) is now displayed on the Status > Home screen, in the new field called Radio Technology. The new Network Type field on the Status > Home screen and on the Device Status screen displays the type of network (i.e. 2G, 3G, 4G).

WAN/Cellular

Added the option to disable all network watchdog functions in ALEOS

Increased the maximum accepted length of the APN and APN user name that can be configured via SMS to 128 characters

Added Bandwidth Throttle, which enables users to limit the bandwidth for downlink, uplink, or both. This feature also allows users to configure a maximum bandwidth limit to handle bursty traffic.

Added ability to buffer up to 128 kB of data during LTE reselection on AT&T, Rogers, Telus, Bell and European GX440s

Enhanced the AirLink gateway’s handling of network technology reselection for the AirLink GX440 and ES440

LAN/Wi-Fi

Modified ALEOS to make use of standard USB networking drivers in Windows® 7 and Windows 8. Please note that Windows XP SP3 will continue to work with the existing driver. Windows XP with SP2 or earlier is no longer supported and will be unable to use the ALEOS USB networking feature.

VPN

Added support for two additional subnets for each IPsec tunnel

Services

When the Reset Mode field on the Admin > Advanced screen is set to Preserve Cellular Authentication Settings, the AVMS configuration is now also preserved when the device is reset to factory default settings.

When connecting via Telnet, only the user account is allowed to use unsecured TTY. All other accounts are rejected.

Added support for bulk password (ACEmanager password and M3DA password) updates from AVMS

The ALEOS Command Prefix field now appears in ACEmanager when SMS Mode is set to Password Only.

Changes in the RSR Failover Status are now reported immediately to AVMS.

Events Reporting

The AirLink ES440 can be configured to send Event Reports as email messages.

When Network Service is included in Event Reports, it displays the Network Service Type (e.g. 3G, 4G).

Event Reporting now includes the option to configure a report to be sent when the WAN connection switches between a cellular and a Wi-Fi connection.

Serial

Added new Keepalive feature for UDP PAD mode. Users can enable a UDP Keepalive for the Serial port on the device (and the I/O X-Card Serial port, if available). When this feature is enabled, a UDP packet containing the IMEI (in little endian) is sent periodically or when the WAN IP changes.

The Activity LED can now be configured to indicate when there is traffic on the serial port.

Applications

ACEmanager now shows a list of installed ALEOS Application Framework files.

Admin

Added logging messages for LDAP, RADIUS, and TACACS+ Authentication

Miscellaneous

Added new option to configure USB networking subnet mask

Improved boot time and time to data session when the radio resets

Bug Fixes

Template

Fixed a problem that was causing the wrong values to be added to the template for Trusted IPs - Inbound

Fixed a problem where the value for the ToD Reset: Time Zone Offset from UTC field on the Admin > Advanced screen was not changing when a template containing a new value was uploaded to the device.

Reliable Static Routing

Fixed a problem where the RSR Tracking Object was not timing-out properly and was remaining in a PASS state when it should have been reporting a FAIL. This problem occurred when the tracking object was configured to use a remote address such as 8.8.8.8, rather than a local IP such as 192.168.13.101.

LAN/Wi-Fi

The Wi-Fi AP rescan timeout field no longer appears:

- When the Wi-Fi mode is set to Access Point
- When the Wi-Fi mode is set to Client (Wi-Fi WAN) mode AND the Wi-Fi Client mode field is set to Manual
- When the Wi-Fi mode is set to Both (AP + Wi-Fi WAN) mode AND the Wi-Fi Client mode field is set to Manual

Services

The Always On Connection feature can now be configured from AVMS.

AVMS no longer shows error codes 2 and 3 when applying a correct template.

GPS

The AirLink GX400 with radio module MC8705 now restarts tracking if a GPS fix is lost for more than one minute.

Introduced new radio module firmware for the AirLink LS300 with radio module SL8092 (1.0.0.23) to fix a problem where the LS300 was, in some cases, unable to recover when the GPS fix was lost.

Fixed a problem with the Event Power Up report ID

Events Reporting

Data Usage Event Reports now use the units configured in the Data Usage threshold.

Fixed a problem where the Test Report button in Event Reporting was not working when a fifth Action using SMS was configured

Serial

Fixed a problem where two attempts were required to successfully add or delete an address in the MODBUS Address List

Applications

Fixed an issue where Data Usage thresholds were not initialized correctly

The previous daily usage is now set properly when Daily Usage is enabled

Admin

Fixed an issue where Power Input and Board Temperature Event Reports occasionally sent incorrect data

Modified the idle time-out for Wi-Fi connections so that inactive connections are not dropped
Reduced the number of Wi-Fi wake-ups to increase the battery life for connected devices

Miscellaneous

The first-connected host now obtains the public IP address, even if there was no host connected at boot time.

Known Issues

There is a known limitation in Event Reporting. When multiple Daily or Monthly Data Usage Events are configured, only the last one configured is used.

There is a known issue with the Verizon Wireless LS300. When the device is in Low Power Periodic Timer mode, no wakeup reports are generated.

When the AirLink device is in Public Mode and Client (Wi-Fi WAN) mode, the AirLink device is sometimes unable to switch to the cellular network when the Access Point is down or out of range. **Workaround:** If you want the AirLink device to establish a Wi-Fi connection when the Access Point is within range and switch to a cellular connection when the AP is out of range or down, ensure that the AirLink device is set to Private Mode. (The Host Connection Mode on the LAN > DHCP/Addressing page should be set to the default setting --- All Hosts Use Private IPs.)

SMS is not working on Verizon Wireless MC7750 devices. This will be fixed in the next ALEOS release.

End-of-support/Deprecation Announcements

End of support for Internet Explorer® 8 as of 31 January 2015

AT*NETWDOG is deprecated. (It will be removed in ALEOS 4.5.0.)
Users should migrate to AT*NWDOGTIME prior to 19 June 2015.

Admin > Advanced > Status Update is deprecated. (It will be removed in ALEOS 4.5.0.)
Users should migrate to Events Reporting using XML actions prior to 19 June 2015.