

AEP-1.4.16 Release Notes

Changes

- ⑩ Increase the RSA key length in server.pem (the default self-signed certificate) to 2048 bits.
- ⑩ Upgrade to wpa_supplicant 2.6
- ⑩ Upgrade pyserial to version 3.4
- ⑩ Display LoRa Server and Packet Forwarder versions in web UI.
- ⑩ Be able to use the lora network server without a mtac-lora card installed
- ⑩ Update Node-RED to version 0.15.3
- ⑩ Add support for LDC3 radio
- ⑩ Custom Apps: Update user defined defaults to backup and restore custom apps installed in /var/config/app. Custom Apps are not uploaded with configuration to Device HQ.
- ⑩ Add libnftnl and libnetfilter-log to AEP 1.4.x and turn on CONFIG_NETFILTER_XT_TARGET_TPROXY and NFLOG in kernel
- ⑩ lora-network-server now version 2.0.19
 - ⑩ Supports 2000 end-devices and 10 additional gateways
 - ⑩ Add LoRaWAN Private mode for LoRaWAN compatible network using 0x12 syncword
 - ⑩ Restart lora services if a packet forwarder has not been seen in 10 minutes
 - ⑩ Class C scheduling up to 5 seconds out, instead of failing schedule call multiple times
 - ⑩ Set default join delay to 5 seconds, if null was provided OTA join was not possible
 - ⑩ Fix sample config file JSON error comma at end of list
 - ⑩ Add app port to application MQTT topic for up and packet_sent events
 - ⑩ Allow for application specific filtering such as Multicast or Multipart
 - ⑩ `mosquitto_sub -v -t lora/+/+/+/+`
 - ⑩ `mosquitto_sub -v -t lora/<APP-EUI>/<DEV-EUI>/<APP-PORT>/<EVENT>`
 - ⑩ PUT update to LENS cloud for end-device class, name, hardware or firmware version if changed on Conduit
 - ⑩ Add some time randomization for class C downlink rescheduling
 - ⑩ Fix for US/AU private mode Rx2, frequency was not correct
 - ⑩ Emit `queue_full` message if no room left, check of queue size was added before making a call to add the packet
 - ⑩ Fix for some JoinEUI values creating invalid Join Accept messages to be transmitted
- ⑩ Lora:
 - ⑩ show join request result description in hover over
 - ⑩ statistics for dropped packets has changed
 - ⑩ add gateway card info to packet forwarder config section
 - ⑩ do not hide Command to restart lora services based on capabilities.
- ⑩ LoRaWAN Changes
 - ⑩ Removed Setup > Lora menu item
 - ⑩ Added LoRaWAN menu group
 - ⑩ Added LoRaWAN menu items

- ⑩ hide menu items if network server is not enabled.
- ⑩ Network Settings
- ⑩ Key Management
- ⑩ Gateways
- ⑩ Device Configuration
- ⑩ Device Sessions
- ⑩ Packets
- ⑩ Downlink Queue
- ⑩ Added restart lora services command to commands menu
- ⑩ Backup lora database before creating config download
- ⑩ Added Packet Forwarder mode configuration UI
- ⑩ Updated to Network Server to v2.0.11
- ⑩ Added multiple gateway support
- ⑩ Added LENS cloud join server support
- ⑩ Added LENS cloud statistics support
- ⑩ Command API updates to add devices, sessions and downlink packets
- ⑩ Added json output options
- ⑩ lora-query interface changed to pass commands to network server
- ⑩ MQTT event updates for applications
- ⑩ Network Server will not run on MTCAP mLinux models, packet forwarder only

Bug Fixes

- ⑩ Disabled logging on LoRa Packet Forwarder in forwarder only mode to prevent filling up /var/log
- ⑩ Node-RED LoRa node fixes [IN002602] lora-out node UI cannot be overridden.
- ⑩ Node-RED mCard and lora node fixes handling lora nodes and new rev of LoRa network server
- ⑩ Support Portal Case #5084641: Device GPS position data not displaying
- ⑩ dnsmasq: Starting too early causes it to point to stale empty resolv.conf file
- ⑩ SNTP: SNTP server settings don't transfer after device firmware upgrade
- ⑩ WAN priority defaults after upgrade
- ⑩ Logging: Setting Debug Options syslog level to INFO doesn't allow INFO
- ⑩ Make firmware upgrade error message stay displayed on AEP web UI
- ⑩ Support #5085601: Lora networking disables if device config from template is used for device config upgrading
- ⑩ lora packet forwarder does not run after clicking submit button
- ⑩ ntp_sync: update to call ntpdate with both the -u and -b options
- ⑩ Radio Firmware upgrade using AEP web UI fails
- ⑩ Turn off Server Cert Validation in URLopener call for Node-RED app download
- ⑩ network configuration: Cannot configure the eth0 interface with very restrictive subnet mask
- ⑩ PPP up and down Verizon (ppp-check process was trying to use ppp0 before it was up - race condition)

- ⑩ Help link broken for OpenVPN
- ⑩ Fix for some JoinEUI values creating invalid Join Accept messages to be transmitted
- ⑩ Fix db migration from AEP 1.4.3/1.4.14 for lora database path