ThalesLINK Software Release 2.2.1.4

This release primarily includes LGA support. It increases failover capability with the ability to define the address that defines a healthy link and adds some features to the Management Portal for easier configuration.

Feature Additions:

LGA:

Release 2.2.1.4 includes the initial production release of the ThalesLINK 200 firmware. Starting with this firmware release, all future releases support both 350 and 200 systems. The Below Deck Unit (BDU) shipped with the system only operate with the antenna type shipped with it. Connecting a low gain antenna (LGA) to a high gain antenna (HGA) BDU with software versions before 2.2.1 will disable the LGA system from going on air.

IC-2044: The LGA system includes support for GPS, GLONASS, BeiDou, Galileo. The settings-> GNSS tab allows the constellation or multiple constellations to be chosen. The HGA system only supports global positioning system (GPS).

Preferred Routing:

IC-1909: To determine that the WAN connection is available for a network switchover, the BDU sends a ping to gstatic.com. When not connected to the internet, network switchover does not work. In this release, an IPv4 address can be used instead of using the default gstatic.com URL. Only IPv4 addresses can be used since DNS connectivity is questionable when not connected to the internet.

Management Portal:

IC-1866: The Management Portal displays an alert when the internal temperature of the BDU approaches a temperature that may cause damage to the system. The alert warns that the system may be disrupted if the BDU continues to heat up.

IC-1940: The management portal now displays the IP address assigned to the SIM by Iridium. These addresses belong to the Iridium network and are not addressable from the internet. The purpose for supplying this address is for debugging. The Management Portal displays the IP Address on the status->sim page.

IC-1361: The Management Portal hides the configurable parameters of the WiFi when the Wifi is disabled.

IC-1403: The DHCP lease time and duration on the Management Portal is represented the time in hours:minutes instead of seconds. The Management Portal restricts the minimum lease time to 2 minutes. The API, still based in seconds, has a minimum value of 2 seconds.

IC-1482: The Management Portal warns and rejects blacklist or whitelist entries that already contains the entered URL. Variations in the URL, for instance www.google.com and google.com, will be saved.

API:

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Defects Fixed:

Management Portal:

IC-2099: Applying changes using the convenience icons on the top right corner of the Management Portal froze in a saving state for several minutes. Even though the command succeeded, the Management Portal required a refresh to escape the saving state. The defect was found and fixed.

IC-2119: The WAN status icon on the top right corner of the Management Portal displayed the current route used when hovered over. The displayed route was incorrect. The WAN status icon now shows the right route status.

IC-2086: The Management Portal allows an administrator to change the LAN DHCP range. Although the input boxes scaled correctly on the Management Portal, a smaller screen, like a handset, allowed the input boxes to extend beyond the usable space. The boxes are now useable on all screen sizes.

IC-1895: The Management Portal accepts any value entered into the LAN DHCP range. The Management Portal now checks for ranges outside of the IP mask and for end values smaller than start values.

IC-2088: The Management Portal allowed 0 seconds as a valid lease time. The Management Portal now rejects all lease times less than 2 minutes.

Swagger API:

IC-2089: The Swagger interface provides an interactive way to learn and develop ways to interact with the terminal's API. The execution of the "Software Revert" button produced an API that failed. The Swagger interface has been updated to generate the correct command for software revert.

Factory Reset:

ICDT-479: After many factory resets, the terminal required an additional reboot. The new software automatically reboots the terminal, avoiding the need for a GUI push to finish the factory reset.

Functional:

IC-2093: Occasionally a terminal using a LAN IP address different than the default address of 192.168.55.1 that has the power abruptly removed from the DC power connection to the terminal would revert the address back to the default. The IP address was made to persist across abrupt power outages.

Open Issues:

Static WAN addressing:

ICDT-492: Static Addressing on the WAN sends data out on the static address and the static address plus 1. The static addressing works but two data streams are presented on the WAN interface, one interface for the data and another one for DNS lookups. The same is true for Dynamic addressing: two addresses are assigned, one for data and the other for DNS lookups.

ICDT-429: When the WAN static address conflicts with the LAN address, the configuration restoration fails. Also, the WAN static IP address configuration fails when the WAN static IP address is in the LAN DHCP range. For instance, by default, the terminal LAN address is 192.168.55.1 and the DHCP range is 192.168.55.100 to 150. The WAN static IP address restoration will fail when that IP address is 192.168.55.1 or within the range of 192.168.55.100 and 192.168.55.150.

ICDT-431: The terminal allows IP addresses to be reserved within the DHCP range. The reserved address is assigned to a device with a configured MAC address. If the desired address has been assigned to a different device, the reservation cannot be enabled until the DHCP lease expires and the address is released. All the parameters can be changed and saved, but the reservation can't be enabled.

Handset:

ICDT-469: SureLINK supports only dynamic addressing and has no static address. SureLINK will not operate unless DHCP is turned on in the terminal.