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HANDSET RELEASE 1.XX TECHNICAL NOTE

Thales Defense & Security, Inc. (Thales) is proud to release a state-of-the-art, Android-based IP handset that provides ThalesLINK product control, voice, and emergency capabilities. The ThalesLINK Below Deck Unit (BDU) powers the handset through a standard Ethernet cable. For cable runs up to 100m, a Cat5 or better cable is recommended. The handset interfaces with the Management Portal and allows for full control of the BDU and interfaces with the onboard SIP server for satellite-based and local calling. Future applications released by Thales will increase the capability of the handset.

The handset requires terminal version 1.2.x.x, expected release in August of 2019, for full use of the Management Portal. Any other 1.1.x.x or earlier version of software caused the Management Portal to hang with a spinning loading symbol. When the spinning loading symbol does not go away, either touch the screen, which works in 1.1.1.1, or move to another application through the icon bar at the bottom of the screen to use the application shown in Figure 1. Occasionally the handset will no longer respond when the spinning loading symbol is on the screen. The only recovery method is to unplug the handset from the terminal and to plug it back into the terminal, which performs a reboot of the handset.
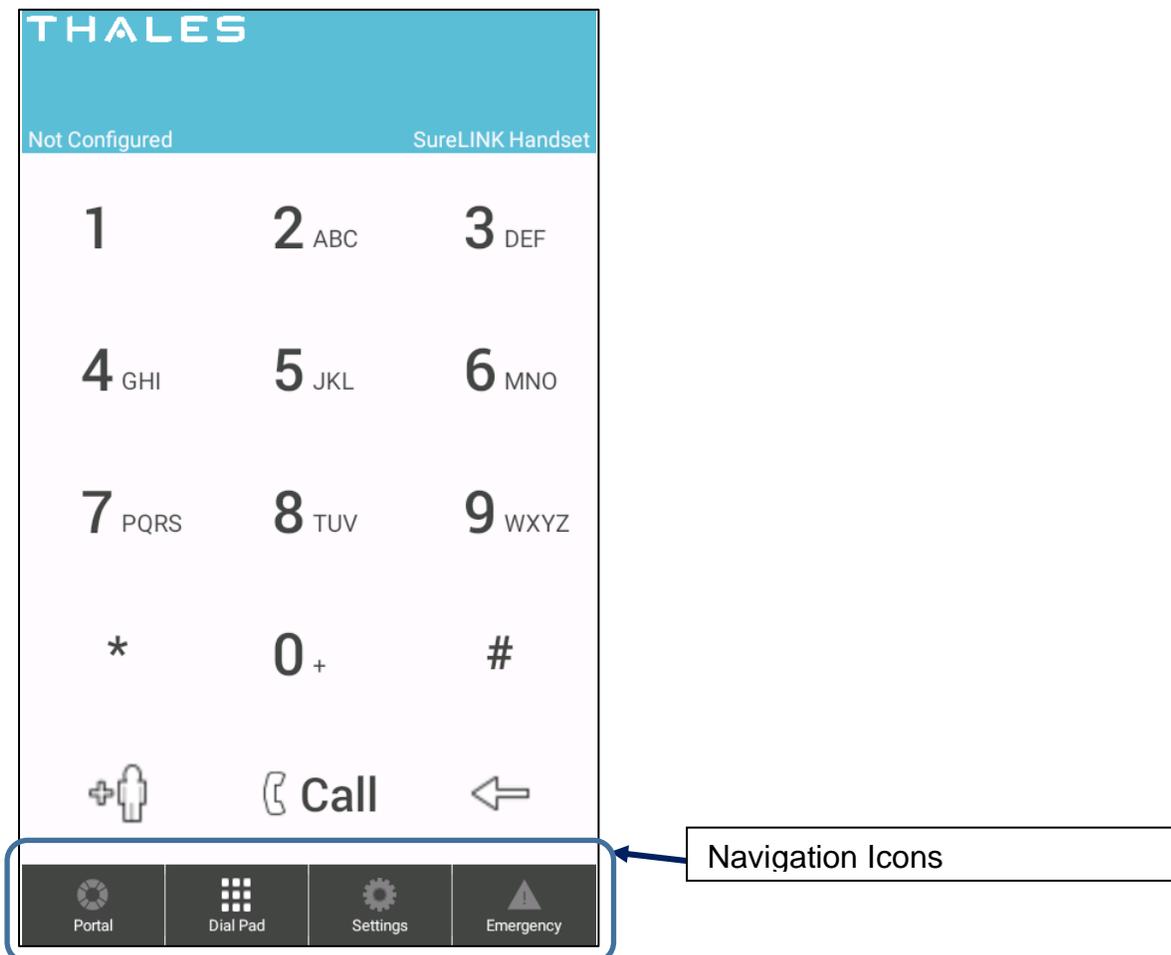

Navigation Icons

Figure 1: Navigation Icons on Dial Pad Screen

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SURELINK HANDSET

SureLINK is a fully functional accessory that integrates with the ThalesLINK line of products.

- Plug SureLINK into any Power Over Ethernet (POE)-enabled port on a ThalesLINK BDU to power up the device.

- Enable the screen by pressing any hard button located on the front of SureLINK.

- Swipe up on an unlocked screen to view the ThalesLINK application.

- SureLINK initially displays the keypad for phone dialing.

- Icons to LINK's functionality are displayed across the bottom of the screen, Figure 1 .

- If the application has been closed or minimized, the following steps will restart the application

  - Select the circle icon at the bottom of the screen to bring up the applications screen as in Figure 5

  - Select the "LINK" icon to start the application.

Known Limitations

- On terminal software before the 1.2.x.x release, the handset is more likely to become unresponsive and require a reboot to recover it.

- On terminal software before the 1.2.x.x release, the Status/Phones menu item will not accept changes through the handset.

MANAGEMENT PORTAL FUNCTIONALITY

The first icon on the left connects the handset to ThalesLINK's Management Portal.

Users can check the ThalesLINK system's status, in a similar manner as connecting to portal.thaleslink.

Selecting the menu (hamburger) icon, located at the top left of the screen, displays the menu tab on the Management Portal. An administrator logs into the Portal by selecting "login" located at the top right corner of the Management Portal. All of these locations are identified in Figure 2.
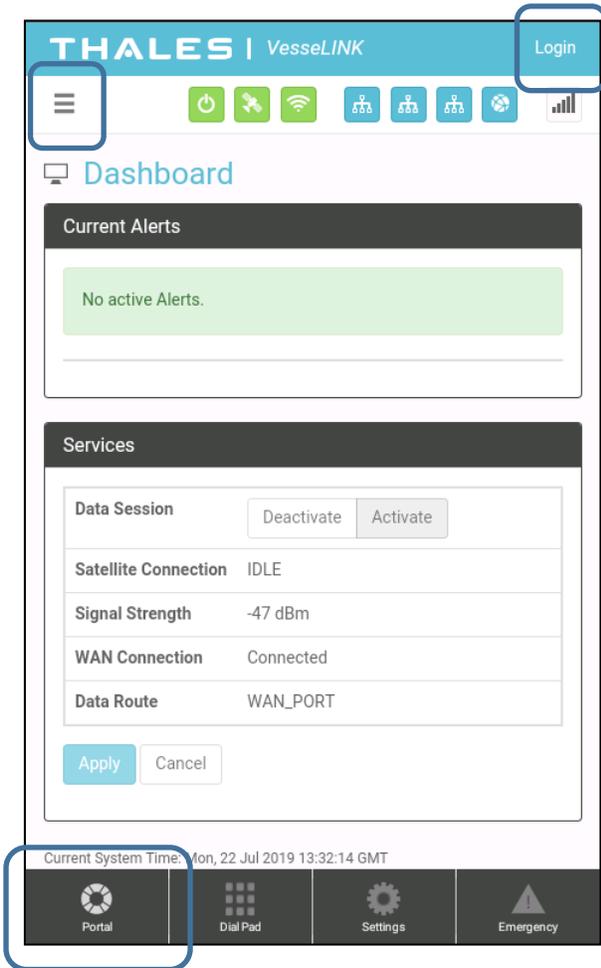
Figure 2: Portal Screen

Management Portal Limitations

- The first time the Management Portal is accessed from SureLINK after booting up SureLINK, the application appears to be stuck in a "loading" operation. A firm touch or swipe of the screen will bring SureLINK out of the "loading" state. Wait about 7 seconds before touching the screen since it takes some time to load the page and collect the BDU data for display.

- When a change is made in the settings tab on the Management Portal, the screen will often need to be touched to exit the "loading" operation.

- The SureLINK handset remembers the token assiged it during login. The handset will be automatically logged into the terminal when plugged back into the terminal unless the terminal is rebooted.

- When in the LINK application, selecting the same Icon more than once puts the icon into reverse color mode. The icon is restored when another icon is selected.
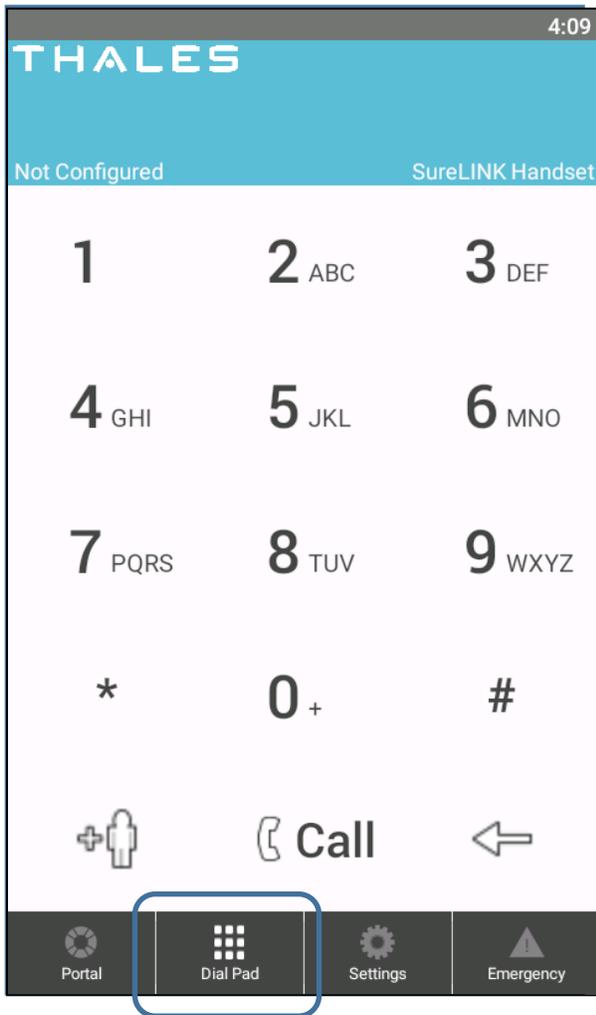
CALL FUNCTIONALITY

The second icon from the left (Dial Pad) allows users to make phone calls. Simply select the numbers on the key pad to make a phone call, similar to dialing from a cell phone screen, then select the CALL button to initiate the call. The extension dials automatically for a local call.

When calling over an Iridium line, dial 9 first to open an external line across the Iridium Satellite Network. By default, the handset connects to extension 1002 on the terminal, and the second Iridium line will be available for non-local calls. Like all ThalesLINK products, new extensions can be created, and SureLINK can be configured to use selected extensions, as needed.

Thales Defense & Security, Inc.
22605 Gateway Center Drive – Clarksburg, MD 20871 – Tel: 240.864.7000 – Fax: 240.864.7920
info@thalesdsi.com – www.thalesdsi.com

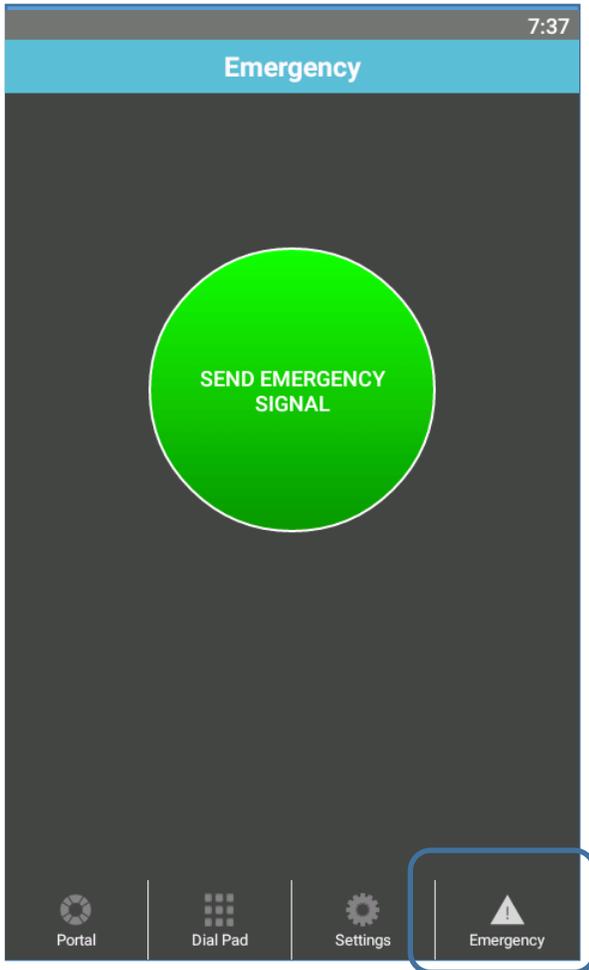4 | P a g e

Figure 3: Dial Pad Screen

Call Limitations

- Double tap the call button to redial of the last number dialed.

- During a call, another call may be dialed and conferenced in. When one call is disconnected, the second call will remain connected, although no voice will be heard on either end. Both ends of the remaining call must hang up and the call must be reestablished to continue communication.

EMERGENCY BUTTON FUNCTIONALITY

A red emergency button, located at the top of the SureLINK handset, provides safety when in isolation. In addition to enabling the terminal's emergency services, the emergency button can automatically initiate a call to a configured phone number. When pressed, a 5 second timer counts down before the call is active and emergency services are contacted. See the SureLINK User's Manual for more information about the configuration of SureLINK's Emergency Services. The Emergency Soft button is shown in FIGURE 4

Figure 4: Emergency Button Screen

Thales Defense & Security, Inc.
22605 Gateway Center Drive – Clarksburg, MD 20871 – Tel: 240.864.7000 – Fax: 240.864.7920
info@thalesdsi.com – www.thalesdsi.com
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Emergency Button Limitations

- When the screen is locked or blacked, the emergency button will not enable an emergency. The phone must be unlocked for the emergency button to trigger the emergency information.

- When Emergency is disabled without a reboot, the button remains active until an emergency is enabled.

MISCELLANEOUS LIMITATIONS

- The handset software will not update when the terminal is booted. To update the software, plug the handset into an active POE port of the terminal after the terminal is operational.

- The handset design limits the functionality of the underlying android operating system. Automatic functions like automatic Android and application updates have been disabled. The handset functions with the pre-installed Thales applications and should only be operated with such application. A version of Adobe Acrobat has been installed for viewing the ThalesLINK manuals on the handset through the help tab on the Management Portal. The Adobe Acrobat icon should not be used as an independent application. The icon to avoid is in Figure 5.
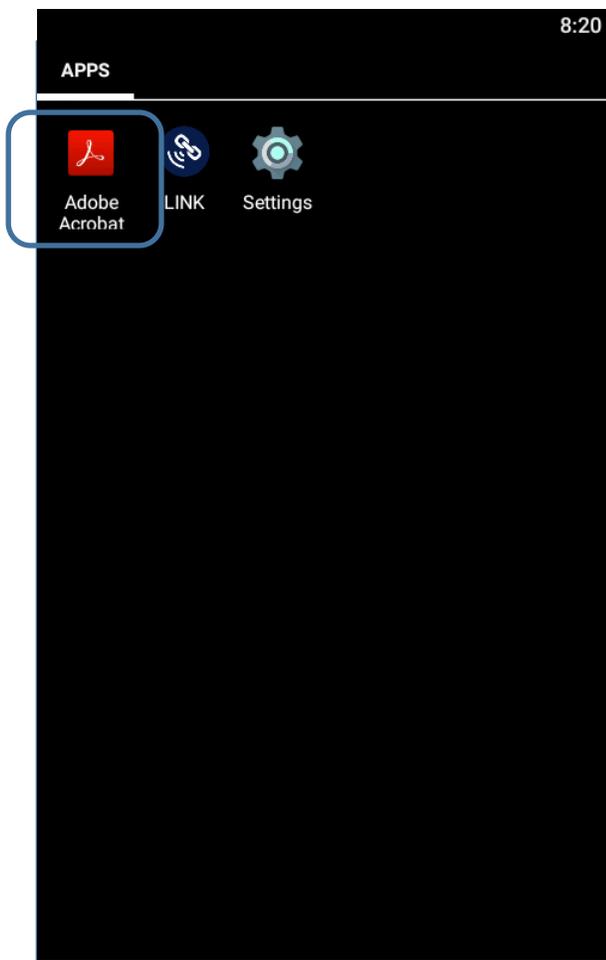
Figure 5: Home Screen with Adobe Icon to avoid

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CONCLUSION

Thales welcomes the opportunity to discuss your satellite communication needs and how our advanced LINK solutions can be tailored to support your specific requirements.

All testing was conducted on OS 1.1, based on Android 5.2, and Application beta version 2.2 with an engineering version of the to be released 1.2 terminal software. For further information contact:

Name, Title
Email:
Phone:

Thales Defense & Security, Inc.
22605 Gateway Center Drive – Clarksburg, MD 20871 – Tel: 240.864.7000 – Fax: 240.864.7920
info@thalesdsi.com – www.thalesdsi.com

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