

MF350BV & VF350BM Software Release Document Release Notes 1.2.1.2

Version C

Revision History

Date	Version	Description	Author
7/8/2019	C	Software Release 1.2.x.x	Steve Noel

Table of Contents

1.	Introduction	4
1.1	Disclaimer of Warranty	4
1.2	Purpose	4
1.3	Scope	4
1.4	Definitions, Acronyms, and Abbreviations	4
1.5	References	4
1.6	Related Documents	4
2.	About This Release	4
3.	Compatible Products	5
4.	Known Issues, Workarounds and Limitations	5
4.1	Defects	5
4.2	Known workarounds	5
4.3	Limitations	5
5.	Software Executable File	6
5.1	File Nomenclature	6
5.2	File Location	6
5.3	File Format	6
5.4	File Checksum/Validation	6
6.	Target Device	6
7.	Release Materials	6
7.1	Programing Instructions	6
7.2	Physical Media Materials	6
7.3	Performing the Upgrade	7
7.4	Release Contents	8
	Revision History	11

1. Introduction

1.1 *Disclaimer of Warranty*

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1.2 *Purpose*

The purpose of the Release Notes Document is to communicate major new features and changes in this release. It also documents known problems and workarounds.

1.3 *Scope*

This document describes the *MF350BV & VF350BM, Release 1.2.x.x*

1.4 *Definitions, Acronyms, and Abbreviations*

1.5 *References*

DFARS 227.7202-1(a)

227.7202-3(a) (1995)

DFARS 252.227-7013(c)(1)(ii) (Oct 1988),

FAR 12.212(a) (1995)

FAR 52.227-19, or FAR 52.227-14]

1.6 *Related Documents*

2. About This Release

This software fixes defects and improves performance on the ThalesLINK family of terminals. The Iridium Modem (BCX) software is upgraded for forward compatibility with

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new BCX hardware expected later this year. The Least Cost Routing feature has been upgraded to a Preferred Routing feature allowing for any combination of priorities between the front WAN port and the satellite connections. Defects and small, requested features are included in the Broadband Application Electronics (BAE) processors. These include fixes support for GRE, ESP and IPSec using these protocols as well as broadening the available ports for port forwarding, and adjustments to the frequency of the fan operation.

3. Compatible Products

This product has been tested on the following platforms or with the following products or platforms:

- MissionLINK - MF350BV
- VesseLINK - VF350BM

4. Known Issues, Workarounds and Limitations

4.1 Defects

ICDT-399: Blue LED Failures at Final Inspection: We believe this is fixed but will watch for more instances of this failure. There is no negative impact except for an increased bootup time.

ICDT-410: Management Portal too slow with multiple users: If two computers or a computer and a wifi connected device are both looking at portal.thaleslink will find sluggish performance.

ICDT-421: Data no longer goes across the satellite: some intense testing with enabling and disabling data and whitelisting and blacklisting caused the terminal to no longer respond to data input. This has not been reproduced and is left on the defect watch list.

ICDT-429: Restoring configuration fails when the WAN static IP configuration conflicts with the current LAN IP configuration.

ICDT-441: Outside call to wifi auto disconnects in 2 1/2 minutes After 2.5 minutes an outside call (Inbound) to a wifi phone drops automatically. The same outside phone can call a voip phone and it does not drop the call. Vern, Mark, and Steve are aware of the issue and have the log file.

4.2 Known workarounds

ICDT-421: Reboot the terminal.

4.3 Limitations

- Two softphones cannot call each other
- ICDT-428: Forwarding rules may cause configuration restore to fail

5. Software Executable File

5.1 File Nomenclature

thaleslink_1.2.x.x.swu

5.2 File Location

Released on the Thales Customer Support portal for signed resellers.

5.3 File Format

Encrypted compressed archive file

5.4 File Checksum/Validation

todo

6. Target Device

This software runs on the processors in the MF350BV and VF350BM satellite systems. See the User's manual for installation procedures.

7. Release Materials

7.1 Programing Instructions

Programming follows the procedures in the User's Guide, 84468, in section 5 -1. Those instructions are copied here:

1. With PC or Mobile Device connect to "ThalesLINK" on Wi-Fi or via Ethernet (RJ-45) port.
2. Open a web browser and type: <http://portal.thaleslink> (do not type .com or any other extension)
3. Once prompted enter Username and Password.
4. Navigate to the SYSTEM→ Firmware
5. Select CHOOSE FILE.
6. Go to File Input and select the Browse button.
7. Navigate to location of downloaded file. This file should have the firmware version and ".swu" as the file extension
 - Example: thaleslink_1.2.x.x.swu
8. Select the "SELECT" button

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9. After file has been selected return to the Firmware page.
10. Select “UPLOAD FIRMWARE” button. This may take a few seconds as a progress bar moves across the page
11. Once staged the Firmware page will display “UPDATE STAGED” (At this point user will be able to see Current and New Versions side by side on the Firmware page)
12. Select “ RUN”
13. Once YES, UPDATE is selected, the process to Update Firmware has begun and will take approximately 10 to 15 minutes to complete. *DO NOT REMOVE POWER DURING THIS PHASE*
14. Once completed and the system reboots, wait for all the Status LEDs to go Solid Green and/or Blue. This may take a couple minutes.
15. Verify Firmware Update by connecting to “ThalesLINK” on Wi-Fi or Ethernet port.
16. Open a web browser and type: <http://portal.thaleslink> (do not type .com or any other extension).
17. Once prompted enter the admin Password (this will not change from before the firmware update).
18. Navigate to the SYSTEM→ Firmware to view updates. (Software versions can also be found in the ABOUT menu item.)

7.2 *Physical Media Materials*

None

7.3 *Performing the Upgrade*

See Section 7.1

7.3.1 Security, privacy, or safety precautions relevant to the installation.

None

7.3.2 Identification of other changes that have to be installed for this version to be used.

None

7.3.3 Instructions for installing the software version.

See Section 7.1

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7.3.4 Procedures for determining whether the version has been installed properly.

See Section 7.1

7.3.5 A point of contact to be consulted if there are problems or questions with the installation.
If there are problems or questions with the installation, contact Thales Customer Service:
Customer.Service@thalesdsi.com.

7.4 Release Contents

The following fixes are delivered with this software.

Defects and features added from 1.1.1.1:

Defects Fixed:

ICDT-380: POTS phone does not stop ringing when paired with a VoIP phone
Software defect now stops the POTS phone from ringing when a VoIP phone on the same extension answers first.

ICDT-357: Radio Gateway problem with more than one call
When calling into or out of the radio gateway, chances were that a second call would fail because the Radio Gateway was stuck in a configuration state. That state transition has been fixed.

ICDT-425: Duplicate ports for forwarding are silently dropped
When the same port is forwarded for different protocols, i.e. tcp and udp, one of them will not be forwarded. This has now been enabled.

ICDT-409/ICDT-403: Code Version disappears
The backup version(s) on the management portal System tab would disappear and not return. This has been addressed.

IC-1402: Change GUI to replace "Data Limit" with "Data Usage Warning"
Data is not limited by the ThalesLINK terminals. The terminology reflects a warning instead of a limit.

Activate Session remotely
When WAN port the data route is activated, the commands across the satellite where discarded. Now the API session can be connected remotely

Swagger Phone example is wrong
The password field in the Phone settings in swagger was missing from the example.

Feature Additions:

IC-1384: POST and BIT Fan Failures
Identified the failure scenario and disabled the alarm for that scenario

IC-1587: Enable ports for IKE
IPSec over GRE does not work because ports 500 and 910 can not be forwarded.
This feature removes blocking port forwarding from 1 to 1024.

IC-1485: Add GRE forwarding through the BCX and CN

GRE was not forwarded. It works properly now.

IC-1399: Make sure software downgrades don't cause issues

Terminals with version 1.7.3 hardware version H of the Iridium Modem software will not be downgradable to any other software version before 1.7.3 that version. This is prevent newer modem hardware from being bricked by incompatible software.

IC-1373: Add units to GPS altitude

Added meters to altitude on GPS tab

IC-1500: WAN Prioritization

The ability to set the priority for data between the WAN and satellite connections. The primary path can be assigned a route to either satellite or WAN. A secondary path can optionally be assigned to the remaining route. When no route is assigned to the secondary path, it is disabled.

IC-1394: Power button turns unit on when releasing

Sometimes the unit immediately turns itself back on after it turns off.

IC-1393: Change Distress to Alert in Management Portal

The term Distress has been changed to Emergency in the Management portal

IC-1383: Raise fan trip point

The temperature in which the fan is turned on has been raised from an internal temperature of 55 C to an internal temperature of 70C.

IC-1382: Decrease temp/fan log messages

The frequency that a fan message is logged has been decreased to every 90 seconds instead of every 5 seconds.

IC-1363: Create method to import old config data

The import config file works better with config files from different versions of software.

IC-1337: Support IPSec

Fixed some software that disallowed IPSec from working

IC-1338: Add IPSec forwarding to API and GUI

Added under Data tab

New BCX software version 1.7.3

BCX version 1.7.3 address an obsolete part. Earlier versions of the BCX software will brick the BCX if attempted to load onto the hardware. This version of software, however, is backwards compatible.

Force Time Synchronization

The Core Network module in the terminal will sometimes use January 1, 2000 as a default date. Software was added to force the Core Network module to take the new time.

Debug activated continuous ping added

Lan port disable: The ability to turn off a port so that a connected device cannot gain access to the network of the terminal

This security feature, which can be utilized on a tab in the Management Portal or through an API, is in this release.

Open Issues:

ICDT-399: Blue LED Failures at Final Inspection

On a small number of random terminals, the Wifi module does a reinstall of the software at startup. This is shown as a blue light on the far left LED and a slow bootup. Once the system is booted up, it works fine. The blue LED, on most terminals, is random and not seen at every bootup. Although the issue will remain open, changes have been made to the software upgrade procedure to address this issue.

ICDT-410: Management Portal too slow with multiple users

When more than one computer or phone is logged into the management portal at the same time, the management portal becomes less responsive.

ICDT-421: Data no longer goes across the satellite

When testing domain blacklist/whitelist, location services, and data enable/disable, the box would not send data from the LAN across the satellite. Location updates and pings work from inside of the terminal.

ICDT-429: Restoring configuration fails when the WAN static IP configuration conflicts with the current LAN IP configuration.

The restore fails if the WAN static IP address that is in the range of the LAN IP reserved values

ICDT-428: Forwarding rules may cause configuration restore to fail

If the port forwarding rules are applied to a LAN IP address that is no longer compatible to the forwarding rules, the configuration restore will fail.

ICDT-431: Can't enable DHCP reservation that is in use

A DHCP reservation cannot be enabled for an IP address that is in use (in the list of current devices). Other changes to the reservation (Name, Duration, and MAC) save successfully whether or not the IP address is in use, but not Enable.

Revision History

Rev.	Author	Change Description
1	R. Kaiser S. Noel P. Ross M. Blanchard L. Wang	Initial release. Combined Release Notes and Document into one Release Doc; From earlier Release Doc, removed all sections except Software Executable File, Target Device, Upgrade Instructions, and Programing Instruction. This obsoletes OT45-002B Release Notes and OT45-002A Release Document. Updated based upon feedback from Jennifer Randall to better serve external customer needs.