MF350BV & VF350BM Software Release Document Release Notes 2.2.0.0

Version G

Revision History

Date	Version	Description	Author
7/8/2019	C	Software Release 1.2.x.x	Steve Noel
11/13/2019	D	Software Release 1.2.1.11	Steve Noel
2/3/2020	E	Software Release 2.0.0.2	Steve Noel
5/27/2020	F	Software Release 2.1.0.1	Steve Noel
11/04/20	G	Software Release 2.2.0.0	Steve Noel

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1. Introduction

1.1 Disclaimer of Warranty

Thales Defense & Security, Inc. makes no representations or warranties, either expressed or implied, by or with respect to anything in this document, and shall not be liable for any implied warranties of merchantability or fitness for a particular purpose or for any indirect, special or consequential damages.

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 2.1.0.1*

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

A small upgrade to Secondary Data Flow (SDF) operation including DHCP on SDFs. Also added HTTPS support on both the Management Portal and the API.

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

Defects

ICDT-492: Static Addressing on the WAN sends data out on the desired address and the address plus 1

The static addressing works but two data streams are presented on the WAN interface

ICDT-469: SureLINK supports only static addressing

SureLINK will not operate unless DHCP is turned on in the terminal.

ICDT-487: WAN addressing can conflict with Secondary Data Flow (SDF), causing routing issues

If the network provisioned for the secondary is in the same range as the WAN network, the WAN will not be used and all data will go across the SDF.

ICDT-479: Unexpected reboots required to get system back online and functional

After a factory reset, the system needed two reboots before it became fully functional. This is on the watch list

ICDT-471: PBX registration failure during upgrade testing

When doing rapid and continueous firmware upgrade/downgrade testing, the POTS phone would no longer register to the PBX. The scenario that produced this issue will likely never be done in the field.

To recover the system, do a factory reset and unmap the POTS phones. Reboot, remap the POTS phones and call the POTS phones from a VoIP handset.

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 for port forwarding.

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

A DCHP 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.

Known workarounds

Stated in the issues above

4.1 Limitations

- Static addressing on the WAN interface uses the provisioned address plus the one below it.

5. Software Executable File

5.1 File Nomenclature

thaleslink_2.2.0.1.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

SHA-1: 7b6930f6b4e4cc57dbd1bdbdd33a2c7dcbb98558

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_2.2.0.0.swu

8. Select the "SELECT" button

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

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 2.2.0.0:

Defects Fixed:

ICDT-470: The dashboard doesn't show data when first brought up
Speedup of the GUI has fixed this.

ICDT-472: 2 POTS Lines unable to make/keep calls at the same time
Fixed echo cancellation to allow two simultaneous POTS calls

ICDT-475: Antenna BIT test doesn't capture BCX Timing Ref Check Flag
On 2 known antennas at startup, the BCX Timing Ref Check Flag was set on BIT and the terminal failed to start. The handling of that bit is done.

ICDT-474: Manufacturing Data Disappears
In one instance, the Serial Number and model number disappeared. This is now checked at startup and software upgrade.

ICDT-410: Management Portal too slow with Multiple Users
When more than one Management Portal is displayed with any browser type on one or more devices connected to the terminal, each instance of the portal became very slow. That has been sped up with no issues seen with 3-portals up at a time.

ICDT-468: Add IMEI and SIM to logs at startup
The IMEI and SIM are now in the logs for better debugging

ICDT-386: Add HTTPS capabilities to the management portal
A local certificate was added to the terminal and HTTPS is now supported. There is the potential for warning messages when first using HTTPS after startup on some browsers.

ICDT-467: Phone on a VoIP line with a Secondary Data Flow (SDF) turned on rings but will not connect

When a phone is on a port when that port is added to an SDF, the phone will show as registered until the DHCP address expires. The phone will not receive or make calls after switched to the SDF.

ICDT-472: 2 POTS Lines unable to make/keep calls at the same time

When two calls are on going on the two POTS lines as the same time, voice will not be transferred to one line. In our testing, POTS2 is the line that is interrupted. POTS1 still works no matter which call was made first.

IC-493 Port Forwards for SDFs not applying internal port when internal and external ports are different

Internal and external ports can be different on SDF port forwarding.

Feature Additions:

IC-1857: Downgrade protections

Protection for memory upgrade and BCX memory upgrade problems by loading old software onto new memory.

IC-1833: Be FirstNet compliant in the API

FIrstNet requires HTTPS on all interfaces to the terminal. TSC has been added to the API, both on the local LAN and across the satellite, and to the Management Portal.

IC-1836: IP address and SDF information on the GUI

The Private IP address and information about the gateways specified in the SDF service are displayed on the Management Poratal

IC-1387 Allow only SDFs that are provisioned to be assigned to ports or services

When provisioning ports or services with SDFs, only SDFs that are provisioned on the SIM will be selectable on the GUI. The API does not have this restriction.

IC-1860 Simplify local certificate use with HTTPS usage

A window popup guides the user to manually accept the HTTPS certificate on browsers that don't automatically do it for them. Since the certificate is local, it is not automatically accepted.

IC-1848: DHCP assignment on SDF

Each SDF can be configured to receive a DHCP assigned dynamic address or continue to manually assign the address.

IC-1795: Tighten internal terminal communications

All processor communications are kept within the terminal.

IC-1404: Add WAN DHCP info to GUI/API

The Dynamically assigned IP address and gateway for the WAN connection are now shown on the GUI.

IC-1844 Un-provisioned SDFs should be noted in the GUI

An error message is displayed on Settings->Secondary Data Flow when a port is assigned to an SDF that is not provisioned on the SIM card.

IC-1853: Increase SW Temperature shutoff to +85C up from +80C.
The terminal resets when the highest internal temperature reaches 85C

Open Issues:

See defects section.

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.