



Iridium Extreme[®] PTT

Software Release Note

IRDM-1023-SRN-004 v3.1

HP17004

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1 Introduction

This document details the use of the Iridium Extreme® PTT firmware upgrade tool and lists the feature changes contained within the version HP17004 release.

The primary purpose of this release is to provide a number of improvements and fixes.

2 Upgrade Tool OS Compatibility

The upgrade tool that accompanies this release has been tested with Microsoft Windows 7 SP1 x64. The instructions that follow in this document assume the use of this version of Microsoft Windows.

3 Performing the Upgrade

The following steps should be used to upgrade an Iridium Extreme® PTT from version HP15003 or later.

- Run the upgrade installer application.
 - The application is named "Iridium Extreme Push-to-Talk Software Upgrade HP17004 Installer.exe"
 - This will place the upgrade tool and USB drivers into the C:\Program Files\Iridium\ExtremePTT directory

- Prior to performing the upgrade complete the following:
 - Disable Bluetooth on the PC running the upgrade
 - Remove the SIM card from the handset and install the handset battery
 - Turn the handset on
 - Ensure that the battery is fully charged or a charger is connected to the handset

- Connect the handset to the PC using a USB cable
 - If the handset is being connected to this PC for the first time, or to a USB port that has not been used before, the driver will be installed automatically. If this is the case, wait for Windows to show the "New Hardware Installed" notification before proceeding.
 - If Windows is unable to automatically locate the USB driver, it can be found at C:\Program Files\Iridium\ExtremePTT\USB\VCOMPORT

- Run the Iridium Extreme PTT Software Upgrade tool
 - A shortcut to this application should be available in the Start Menu in the Iridium Extreme Software Upgrade folder
 - The target of the shortcut is C:\Program Files\Iridium\Extreme\Upgrade_Tool\Iridium Extreme Push-to-Talk Software Upgrade HP17004.exe
- Follow instructions presented by the upgrade tool user interface
 - During the upgrade process the handset will display various information on the screen, including “Upgrading...”
 - At times the handset screen may go completely blank
 - Do not disconnect the handset or press any keys while the upgrade is in progress

NOTE: The handset will be rebooted into a USB standard Device Firmware Upgrade (DFU) mode during the upgrade. The DFU driver will be installed if the PC has never been used with a handset in DFU mode before. If Windows is unable to automatically locate the USB DFU driver, it can be found at C:\Program Files\Iridium\ExtremePTT\USB\DFU.

4 Hardware Compatibility

This software release has been tested to be compatible with the following hardware models;

IRID0315D01			

Iridium may produce and distribute hardware models loaded with software version HP17004 that are not indicated on this list at its sole discretion and without notice.

5 Change List

5.1 HP17004

Description
Addressed an issue in both telephony and push-to-talk mode where channel assignments were inadvertently being discarded.

Resolved a pair of issues in push-to-talk mode where an infrequent race condition and failure mode in the over-the-air provisioning could result in the talkgroups indicated on the handset being out-of-sync with the push-to-talk gateway elements.

Fixed a set of memory leaks in push-to-talk mode that could cause the handset to become unstable when operated for long periods of time.

Fixed an edge-case issue in push-to-talk mode that could cause the handset to stop indicating the current received signal strength.

Updated product software to be compatible with most current handset hardware.

5.2 HP17002

Description

Improved accuracy of reporting when SMS storage on the SIM has reached capacity.

Updated startup splash screen to display a NEXT constellation satellite.

Improved handset upgrade: added support for Windows 10; required drivers are now installed automatically; and the upgrade itself is faster in some situations.

Added functionality to allow short codes to be stored in the phonebook, used from the phonebook, and dialed directly.

Improved responsiveness to power button press to turn the handset off.

Improved the translations for some non-English menu languages, added support for all languages in push-to-talk mode, and added Kurdish (Sorani) as a new language option.

Fixed issue where a redialed SOS call would show "Calling %s" instead of the correct number.

Fixed an issue where Location Based Services would not work correctly after a power cycle with the charger connected.

Improved reporting of signal strength on the user interface and the AT interface.

Fixed an issue where a remote DTMF button press could unmute a local handset.

Use of SBD services is now permitted when no SIM card is present in the handset. (Note: Mobile-Terminated SBD messages are not supported on the Iridium Extreme® PTT handset.)

Added an alert to notify the user that the antenna should be extended when placing a push-to-talk call.

Various minor user interface improvements in push-to-talk mode.

Removed delay that could occur in some situations after a user initiates the switch to push-to-talk mode from the menu option.

Fixed an issue where AT commands could not be used after switching between push-to-talk and telephony modes.

Improved screen signal strength indications to more quickly reflect the signal strength seen by the handset when in push-to-talk mode.

5.3 HP15003

Description

First production release.