



Iridium 9522B

Software Release Note

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ST16004

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1 Introduction

This document lists the feature changes contained in the version ST16004 release for the Iridium 9522B transceiver.

The primary purpose of this release is to improve an issue where the termination of a command with the carriage-return octet and newline octet could sometimes cause the terminal to ignore commands that followed.

2 Upgrade Tool

An upgrade tool is provided to load the revision ST16004 software onto an Iridium 9522B transceiver. The upgrade tool associated with this release has been tested with Microsoft Windows 7 SP1 x64.

To use, connect the Data/Fax port on the transceiver to a PC COM port, launch the upgrade tool, and click Upgrade to perform the upgrade. After the upgrade is complete the transceiver will report version ST16004 when queried with the AT+CGMR command.

3 Hardware Compatibility

This software release is compatible with all versions of the Iridium 9522B as of this publication.

4 Changelog

4.1 ST16004

Description

Extended the implementation of the AT+CIEV command to accept requests for Antenna Fault (AT+CIEV:2) and SV Information (AT+CIEV:3). The Antenna Fault request is included to maintain compatibility with the interface specification; there is no hardware support in the Iridium 9522B to indicate antenna faults.

Extended the implementation of the AT+CIEV command to report SV information.

Improved an issue where a newline octet (0x0A) sent to the modem immediately after the command-termination octet - a carriage-return (0x0D) - sometimes caused the terminal to ignore commands that followed.

4.2 ST16002

Description

Removed a method by which the terminal is allowed to programmatically reset the flash memory to factory-default values. This change reduces the possibility that the terminal may reset itself in off-nominal situations.

4.3 ST15001

Description

Calls to the emergency services number “000” are now permitted when no SIM card is attached to the transceiver.

Corrected an issue that would arise when the handset was transmitting and receiving SMS messages at the same time.

Added calling line indication restriction and presentation and call release code reporting over the Intelligent Peripheral protocol.

4.4 ST10001

Description

Added the AT+GPSSTA command to disable GPS path for power savings.

Corrected an issue with the AT+CLCC call waiting command where the correct value of 005 is reported instead of the previously incorrect value of 000.

Modified the behaviour of the transceiver when the destination of a Mobile Originate call to the Public Switched Telephone Network is found to be busy. Previously this resulted in the AT interface becoming unresponsive; the transceiver now responds with a busy indication within 30 seconds.

Corrected an issue that allowed a NO CARRIER indication at the end of some calls when in quiet mode.

4.5 ST09005

Description

Base reference release. History prior to ST10001 has been deprecated from this release note.