



Iridium SBD Transceivers

Software Release Note

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TA16005

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1 Introduction

This document lists the feature changes contained in the version TA16005 release for the Iridium 9602, 9603, 9602N, and 9603N SBD transceivers.

The primary purpose of this release is to fix a bug that prevented correct operation when used in conjunction with the Value Added Manufacturer End-of-Line Test Tool on the Iridium 9602N and 9603N products.

2 Upgrade Tool

An upgrade tool is provided to load the revision TA16005 software onto an Iridium 9602, 9603, 9602N, or 9603N SBD 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 SBD 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 TA16005 when queried with the AT+CGMR command.

3 Hardware Compatibility

This software release is compatible with all versions of the Iridium 9602, 9603, 9602N, and 9603N SBD transceivers as of this publication.

4 Changelog

4.1 TA16005

Description

Fixed a bug that prevented correct operation when used in conjunction with the Value Added Manufacturer End-of-Line Test Tool on the Iridium 9602N and 9603N products.

Corrected an issue that was introduced in TA14001 which prevented characters sent to the AT interface during an SBD session from being appropriately discarded.

Removed support for commands specific to the Iridium 9602SB series transceivers. Commands AT+SBDC, AT+SBDP, AT+SBDP, and AT+SBDP are no longer available and will report ERROR if called. The contents and use of S-registers S117, S118, S119, and S120 are now undefined.

Removed deprecated CpeM and CpeA DSP images and associated CGMR response.

The AT+GEMON command is no longer available and will report ERROR if called.

4.2 TA15002

Description

Added support for Iridium 9602N.

4.3 TA14001

Description

Added support for Iridium 9603N.

Added production test command required by the Value Added Manufacturer End-of-Line Test Tool.

4.4 TA13001

Description

Reduced the likelihood of the SBD traffic management algorithms resulting in long back-off periods.

4.5 TA12003

Description

Added support for Iridium 9603.

Fixed AT command parsing bug causing error response to combination of AT commands with AT commands AT-MSGEO and AT-MSSTM.

Fixed a bug causing reporting of status code 18 (RF link dropped) for SBD-related AT commands. Status code 18 was previously returned in cases when status code 32 (no RF link) or 38 (traffic management / SBD exponential back-off lockout) should have been returned.

4.6 TA11002

Description

Added AT+SBDGWN command to address incorrect responses to AT+SBDGW query.

Added SBD exponential retry back-off algorithm to improve network load management.

Extended AT+SBDAREG and AT+CIER commands.

4.7 TA11001

Description

Improved transmit power control loop.

Fixed incorrect reporting of queue size for mobile terminate messages following a queue flush at the gateway.

Fixed potential loophole causing AT*F to not return OK response.

4.8 TA10003

Description

Initial production release for the Iridium 9602.