



# **Iridium 960x Transceiver**

Software Release Note

IRDM-1023-SRN-005 v5.0

TA19002



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## 1 Introduction

This document details the feature changes contained in the software version TA19002 release for the Iridium 9602, 9603, 9602N, and 9603N transceivers.

The primary purpose of this release is to leverage some of the enhancements offered by the new Iridium NEXT constellation to provide customers with ever-better connectivity.

## 2 Upgrade Tool

An upgrade tool is provided to load the revision TA19002 software onto an Iridium 9602, 9603, 9602N, or 9603N transceiver. The upgrade tool associated with this release has been tested with Microsoft Windows 10.

To use the upgrade tool 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 TA19002 when queried with the AT+CGMR command.

## 3 Hardware Compatibility

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

HARDWARE MODELS			
SBD9602C	SBD9602F	SBD9602F02	SBD9603A
SBD9603B01	SBD9603C01	SBDN9603A01	SBDN9603B01

Iridium may produce and distribute hardware models loaded with software version TA19002 that are not indicated on this list at its sole discretion and without notice.

## 4 Change List

### 4.1 TA19002

DESCRIPTION
Leveraged enhancements offered by the Iridium NEXT constellation to improve network connectivity and improve reception of transceiver ring notifications from the core network.
Addressed an issue whereby channel assignments were inadvertently being discarded.
Added support for transceivers with Type Allocation Code 300534 to receive mobile terminated SBD message ring alerts.

## 4.2 TA17006

### DESCRIPTION

Changed the software bootloader to provide compatibility with alternate flash memory devices. Ensures production continuity if issues arise in the supply chain for this part. Functionality of the product is unchanged as compared to TA16005.

## 4.3 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+SBDCC, AT+SBDPC, AT+SBDRC, and AT+SBDWC 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.

## 4.4 TA15002

### DESCRIPTION

Added support for Iridium 9602N.

## 4.5 TA14001

### DESCRIPTION

Added support for Iridium 9603N.

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

## 4.6 TA13001

### DESCRIPTION

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

## 4.7 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.

## 4.8 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.

## 4.9 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.



#### 4.10 TA10003

DESCRIPTION
Initial production release for the Iridium 9602.