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9522 Firmware Update SAC0309

Minor Firmware Release for the 9522 L-Band Transceiver

This firmware release SAC0309 for the 9522 ‘Sebring’ L-Band Transceiver corrects two minor defects that affect a very small number of users/applications. This new firmware release (SAC0309) will be flashed in new units shipped from Iridium inventory. The previous release of firmware was version SAC0307. Unless the LBT is used in one of the two applications listed below there is no need to reflash units deployed in the field or inventory.

The minor modifications in SAC0309 are:

1) Correction of ISU-ISU Data-After-Voice (DAV) calls that fail during the transfer of large data files.

Problem: The LBT powers down during a DAV call when a large amount of data is transmitted.

Solution: A single variable change eliminated this memory management issue.

Impact: Minimal. At this time very few subscribers exercise the mobile-to-mobile DAV data transfer capability. However, some subscribers have expressed interest in using the DAV capability in the near future.

2) Random PIN code lockup during power up sequence.

Problem: Field reports indicated that the ECI IMF1000 Mark 2 and Mark 3 units may experience a PIN lockup problem following a power cycling. In some instances, where the IMF1000 is configured for the “SIM Lock ON” and power is cycled, the unit will not accept any SIM personal identification number (PIN) code. Entering three successive SIM PIN codes then locks the transceiver until the correct Pin Unblocking Key (PUK) is provided.

Momentary loss of power to the transceiver can result in the corruption of temporary memory that prevents the unit from accepting the correct PIN code once power is resupplied. This results in no service available.

Solution: The LBT firmware initialization was changed to initiate a ‘cold’ start instead of a ‘warm’ start regardless of the time that the LBT has been without power. Research of the issue has led to the determination that the LBT, which has no battery, had an unnecessary firmware ‘warm’ start routine. This routine is initiated when power is momentarily removed and reapplied.

Impact: There have been no reports of other LBT-based equipment with this problem. However, eliminating the ‘warm’ start routine with this release will eliminate the possibility of similar problems