

# HUGHES NETWORK SYSTEMS

## FIELD SERVICE BULLETIN

**SUBJECT: 9250 Software Upgrade**
**FSB NUMBER: 1208-01**
**FSB ISSUE DATE: 31-December-08**
**SUBMITTED BY: N. Bartlett**
**APPROVED BY: B. Lindsay**
**CHANGE TO BE IMPLEMENTED BY:**
**End User**
**CUSTOMER X**
**DOCUMENTATION AFFECTED: N/A**
**CATEGORY:**
**HARDWARE**
**FIRMWARE**
**SOFTWARE X**
**OTHER**
**EFFECTIVE DATE: 31-December-08**
**IMPLEMENT: IMMEDIATELY X**
**MANDATORY X**
**Problem:**

The current 9250 software does not fully support operation with the new satellites.

**Solution:**

Software release 4.0.2.7 adds support for the new Inmarsat satellites (AMER, EMEA and APAC).

The satellite used by the terminal is controlled by the "Satellite Selection" field on the "Setup" web page. The "AUTO" option will cause the UT to select the best satellite based on the unit's GPS position. This selection should not be used until the satellite repositioning is completed in February 2009 because the information broadcast by the BGAN system during this period does not always reflect the actual satellite constellation. This could cause the unit to try to acquire a satellite that is not present. Instead, the user should select the correct satellite for their position. The following is based on the latest information available from Inmarsat, but users should check with their service provider or Inmarsat for the latest information on satellite reclocking.

Date	Available Satellites
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Prior to Jan 7 <sup>th</sup> 2009:	AOR and IOR
Jan 7 <sup>th</sup> to Feb 2 <sup>nd</sup> :	AMER and IOR
Feb 2 <sup>nd</sup> to Feb 6 <sup>th</sup> :	AMER, EMEA and IOR
Feb 6 <sup>th</sup> to Feb 24 <sup>th</sup> :	AMER and EMEA
Feb 24 <sup>th</sup> 2009 on:	AMER, EMER and APAC

The unit must be reset after applying a change to the Satellite Selection field for the change to take effect.

The "Antenna Status" web page can be used to check which satellite frequency the unit is tracking. Refer to the table below for mapping of frequency to satellite. See also Version 2.0 of the 9250 User Guide available from the Hughes web site for more information.

Software release 4.0.2.7 is for land mobile class 10 operation and is to be used with the hardware upgrade to class 10 released in September 2008. See FSB 0908-01. If the hardware upgrade to the ACU is not performed, the unit will transmit 2dB to 3dB too low, which may impact performance.

The table below shows the mapping of global beam frequency to satellite.

Satellite Id	Satellite Longitude	Primary Freq (kHz)	Alternate Freq (kHz)	Comments
I4-F1 IOR	64.0 E	1537485	1540825	Old position
I4-F1 APAC	143.5 E	1537485	1540825	New position
I4-F2 AOR	53.0 W	1537920	1541115	Old position
I4-F2 EMEA	25.0 E	1537920	1541115	New position
I4-F3 AMER	98.0 W	1537070	1540730	