Date: **3 November 2025**
Product: **Hughes 9502**
Release: **5.9.6.8 and 8.9.0.8**

Software version 5.9.6.8 is an optional upgrade for the legacy 9502s, with IDU Modem Part Number 3500563-0001 through -0011.

Software version 8.9.0.8 is a recommended upgrade for the second generation of the Hughes 9502. These second generation terminals have IDU Modem Part Number 3500563-0012 and up and run 8.9.x.y releases.

Remote Upgrade:
An issue has been found with second generation units in the field that prevents over air upgrade. This means most fielded units running 8.9.0.6 can only be manually upgraded with the upgrader application. 8.9.0.8 addresses this issue, so units running 8.9.0.8 can be over air upgraded in the future. Note that installed units running 8.9.0.6 do not have to be upgraded, but if they are visited for any reason, Hughes recommends using the upgrader to upgrade them to 8.9.0.8.

The upgrader with both 5.9.6.8 and 8.9.0.8 is available through the Inmarsat support page:
www.inmarsat.com/support/bgan-firmware/
and the Hughes BGAN support page:
www.hughes.com/bgan

The upgrader will automatically select the relevant release when connected to the terminal. Alternatively, the software can be downloaded over the air from the Inmarsat upgrade server by using the Remote SMS feature and the ATCO command _IGETFW. The remote upgrade process automatically selects the relevant file. However, note the above issue for Gen 2 units.

Differences for the second generation units compared to the legacy 9502 units:
- Uses 8.9.x.y software instead of 5.9.x.y
- Does not support Wake-on-Lan
- Does not support PPPoE network mode
- The USB interface uses the standard RNDIS Windows driver and does not require the Hughes USB driver (not compatible with iOS computers)

Release Notes for 8.9.0.8 (Since 8.9.0.6)

- Modify the upgrade procedure so all units support remote upgrade in the future.
- Fix a rare lockup problem seen on some units.
- Disable the vxWorks WDB debug agent on port 17185 to address a security concern
- The new release corrects the date when the GPS week rolls over. The date in the GPS system rolls over every 1024 weeks, which causes the GPS chip to report the

wrong date when its firmware is 19.7 years old, preventing the UT from registering on the BGAN system.

- Fix a bug that blocked network initiated connections in Relay mode.
- AT command enhancements:
  a. Allow the user to disable the AT command port lock from the Security page
  b. Move watchdog configuration from IHPING to new IHWDOG command
  c. Make IHIP configuration consistent with the IP Settings Web page
  d. Fix IHDEFAPN to return the default APN
  e. Correct help text for IHTIMER.

Release Notes for 5.9.6.8 (Since 5.9.6.7)

- Disable the vxWorks WDB debug agent on port 17185 to address a security concern
- AT command enhancements:
  a. Allow the user to disable the AT command port lock from the Security page
  b. Move watchdog configuration from IHPING to new IHWDOG command
  c. Make IHIP configuration consistent with the IP Settings Web page
  d. Fix IHDEFAPN to return the default APN
  e. Correct help text for IHTIMER.

Should you have any questions regarding this notice please do not hesitate to contact Hughes at mobilesatellitesupport@hughes.com