GNSS FW Update Guide

1   Disconnecting everything (including CAN, GNSS antenna, RS232) except the Ethernet cable and power cable.

2   Perform a hard power cycle by disconnecting and reconnecting the power cable.

3   Open a telnet terminal to connect to OBU.

4   Enter the version command to check current SDK version and GNSS FW version.

    4.1   If it returns with **GNSS: N/A**, perform a hard power cycle and try again. Check the NMEA baud rate with gnss nmea_speed_sense command. If it still returns with **Failed to sense NMEA speed**, then the GNSS module is bricked. A RMA will be needed.

    4.2   If it returns with **GNSS: 3.5.3-1**, then perform the next step.

5   If the Autotalks SDK is below 4.10.0, then upgrade it to a 4.10.0 or above version. Board type should be **pcb201v1**.

6   Upload enclosed "**sta8088-3.1.15-atk22016-2.0.0.upg.bin**" to **D:** folder in OBU via a FTP client, e.g Filezilla. (D: is RAM FS)

7   Check the NMEA baud rate with gnss nmea_speed_sense command.

    7.1   If it returns with **Failed to sense NMEA speed**, then perform a hard power cycle and try again.

    7.2   If it returns with **Sensed NMEA speed: 230400 bits/s**, then perform the next step.

8   Update TESEO FW with the following command. It may take about 40 seconds: teseo fw_update D:/sta8088-3.1.15-atk22016-2.0.0.upg.bin 230400 921600 1 0 0