

What's New in OEM6 FW 6.600 (February 3, 2014)

- General Release (supports all 6 platforms)
- Support added for TerraStar-C correction data which enables better converged accuracy and faster re-convergence
- Steadyline now provides smooth transitions, between solution types in BESTPOS, when enabled
- Improvements in reported standard deviations when Steadyline is enabled
- RTK algorithm efficiency improvements result in more CPU idle time when more satellites are tracked
- Improvements in RTK performance through correction outages
- Fix for Ethernet issue with DHCP client on the ProPak-6
- Improvements to WiFi Access Point mode on PP6
- SPAN FSAS/KVH IMUs are now steered to the internal PPS to address timing issues
- SPAN Improvements to handle large GNSS updates and still provide smooth positioning
- SPAN Relative INS output frame has been modified to include ECEF, BODY, or the current LOCALLEVEL
- IMU raw data will now be output before GPS time is set by default. This can be deactivated via a new option in the INSCOMMAND command.
- SETINITAZIMUTH will now complete after we have accumulated at least 5 seconds of static data, if this static data is collected prior to command it will use previous accumulations and complete alignment instantly.
- Added support for ISA-100C IMU at 200Hz or 400Hz.

6.600 New Commands:

1. EXTERNALPVA

The EXTERNALPVA message can be used to input any external update supplying any of; position, velocity, and/or attitude. Sending this command before a GNSS solution is available will allow the SPAN system to align without GNSS.

6.600 Command Change:

1. INSCOMMAND

Added options START_NO_TIME (now the default) and START_FINE_TIME which restores the default of previous releases.

What's New in OEM6 FW 6.510 (July 28, 2014)

- General Release (supports all 6 platforms except GPStation6)
- **FPGA version 4 update for all OEM638 models**
Customers updating OEM638 to 6.510 FW will also need to update the FPGA version on COM2. The Order of update does not matter.
- 617 HW Support
- PPP Support on Smart6
- PPP Latency Improvement:
Previously PPP calculation latency limited the PPP position rate (below 20Hz) and caused variable calculation latency.
- BDS Acquisition Improvement:
Cold start improvement of 8 seconds
- 240 channels supported on OEM638/PP6

6.510 New Commands:

1. SETIMUPORPTOTOCOL

The SETIMUPORTPROTOCOL command is to force the IMU serial port to a particular protocol. This overrides the default setting configured upon the CONNECTIMU command.

2. RELINSAUTOMATION

Command sent to rover to enable SPAN Moving Baseline functionality between it and master.

Command Change:

1. LEVERARMCALIBRATE

Changes to LEVERARMCALIBRATE min/max time allowed for calibration to 300-1800 from 0-1000.

What's New in OEM6 FW 6.400 (April 1, 2014)

- The OEM060400RN0000 (6.400) firmware works across all OEM6 family receivers and their hardware variants. The 6.400 firmware works on the SMART6-L SMART antenna but does not currently support SMART6.
- NovAtel CORRECT Precise Point Positioning (PPP) functionality
- Support for TerrStar and Veripos subscriptions, signal tracking and decoding.
- Fully released BeiDou (BDS) tracking and positioning for in all position modes.
- SPAN models Relative INS model functionality
- SPAN models supporting KVH1750 IMU
- SPAN delayed heave filter support
- Steadyline positioning functionality

6.400 New Commands:

1. ASSIGNLBANDBEAM
2. BESTVELTYPE
3. PPPCONVERGEDCRITERIA
4. PPPDYNAMICS
5. PPPTIMEOUT
6. PPPSEED
7. STEADYLINE
8. UALCONTROL
9. PPSCONTROL2
10. ELEVATIONCUTOFF
11. PDPVELOCITYOUT
12. SOFTLOADSETUP
13. DHCPCONFIG

6.400 New Logs:

1. LBANDBEAMTABLE
2. LBANDTRACKSTAT
3. PPPDOP2
4. PPPPOS
5. PPPSATS
6. TERRASTARINFO
7. TERRASTARSTATUS
8. VERIPOSINFO
9. VERIPOSSTATUS





SLAinc.com

GPS • GNSS Systems

What's New in OEM6 FW 6.220 (March 5, 2013)

- SPAN MEMS enclosure support including ENCLOSUREWHEELSENSOR and ENCLOSURECOMSELECT commands
- Added new status parameters DETERMINING_ORIENTATION and WAITING_INITIALPOS in the inertial solution status
- Added extended status bits in to indicate an INS verified solution in the following INS logs:
 - INSPVAX
 - INSATTX
 - INSPOX
 - INSVELX

What's New in OEM6 FW 6.210 (September 13, 2012)

- SPAN functionality available on OEM6 family of receivers
- New INS logs added: NPOX, INSVELX, INSATTX, INSPVAX, RAWIMUX
- Galileo tracking improvements
- API requires Green Hills Software Compiler

What's New in OEM6 FW 6.200 (Contact support@novatel.com)

- GLIDE Dual Frequency
- RTK Enhancements
- User Configurable Profiles
- New OmniSTAR libraries
- Signed 'hex' files and Signature Authcodes
- Position Mode Matching
- Handling for GLONASS slot-id greater than 24
- Handling for GLONASS Leap Second
- API requires Green Hills Software Compiler

What's New in OEM6 FW 6.101 (July 5, 2012)

- Fix for GLONASS leap second change

What's New in OEM6 FW 6.100 (July 13, 2011)

- ALIGN workflow improvements to remove requirement for raw measurement models at ALIGN master, plug-and-play configuration
- GLIDE improvements to optimize performance in multipath conditions
- QZSS tracking & Single Point Positioning
- EGNOS satellite tracking and positioning improvements

What's New in OEM6 FW 6.000 (October 26, 2010)

FW 6.000 represents the first release for the OEM6 GNSS boards.

Note: FW 6.000 will not run on OEMV GPS boards; please continue to use release FW 3.XXX with your OEMV hardware.



SLAinc.com

GPS • GNSS Systems