

New Positioning Capabilities with NovAtel OEM7 Upgrade



NovAtel has announced the OEM7 7.200 version firmware, with a new positioning functionality including the Interference Toolkit (ITK). The ITK allows users to detect and mitigate intentional interference such as the adversarial jamming of GNSS signals, as well as the unintentional interference from external sources. The new RTK ASSIST corrections service assures continued high-accuracy positioning when signals from an RTK network are unavailable or disrupted.

With the ITK, NovAtel's OEM7 customers can now auto-detect and report in-band Radio Frequency (RF) interference so that any interference adversely affecting their receiver's positioning performance can be quickly nullified. In combination with the company's 7.200 firmware launch, NovAtel is introducing NovAtel CONNECT 2.0, the latest version of the

PC-based Graphical User Interface (GUI). Running on Microsoft Windows 10, NovAtel CONNECT 2.0 offers significant user enhancements including features to optimize ITK functionality.

Firmware version 7.200 expands NovAtel's proprietary correction service capabilities with the introduction of two new subscription-based offerings:

- 1) TerraStar-L 40 centimetre correction service. This Precise Point Positioning (PPP) correction service delivers robust 40cm-level positioning performance at an entry-level price point, anywhere on earth without the need for a base station. With corrections derived from the fully redundant TerraStar network infrastructure, this new service is ideal for broad accuracy positioning applications such as agriculture, construction or GIS
- 2) RTK ASSIST correction bridging service. This globally available service allows users to maintain RTK-level accuracy when RTK corrections are disrupted. RTK ASSIST uses multiple geostationary satellites to beam corrections directly to the receiver to bridge outages that can occur with local RTK networks

NovAtel's director, product management, Neil Gerein stated that developing products that not only deliver high precision, high accuracy positioning, but also assures the customers' position is central to NovAtel's mission. The release of OEM7 firmware version 7.200 reflects the company's commitment to continually enhance positioning performance, whether by expanding receiver capabilities, or in mitigating unintentional or intentional interference as reflected with the capabilities of the new Interference Toolkit, Gerein added.

For more details on all 7.200 firmware capabilities, [go here](#).