



GLONASS Enabled OEM Cards and the June 30th 2015 Leap Second

Summary:

On June 30th, 2015, at 23h59m59s, a positive leap second will be inserted into the UTC time. Some fielded NovAtel receivers will experience issues with GLONASS signal tracking during this event.

Products Affected:

OEMV receivers with firmware 3.906 or lower
OEM6 receivers with firmware 6.100(OEM060100RN0000) or lower
OEMStar receivers will not be impacted

Details: This issue affects only GLONASS-enabled receivers.

GLONASS tracking will be temporarily interrupted on receivers operating during the introduction of the leap second on June 30th 2015. GPS tracking will not be impacted, and receivers will continue to compute a position using the GPS constellation. OEM6 receivers may report a solution integrity warning during this period. GLONASS tracking will return to normal once a new almanac is automatically downloaded from the satellites by the receiver.

Receivers powered-up after the introduction of the leap second that do not have a current almanac will also temporarily have difficulty tracking GLONASS satellites. An almanac will not be available on start-up if the receiver has not been used in 90 days or if the almanac has been cleared manually by the user. GPS tracking will not be impacted, and receivers will continue to compute a position using the GPS constellation. OEM6 receivers may report a solution integrity warning during this period. GLONASS tracking will return to normal once a new almanac is automatically downloaded from the satellites by the receiver.

Solution:

The condition introduced by the leap second is temporary in nature and receiver functionality will return to normal when a new almanac is automatically downloaded by the receiver. The total expected duration of the GLONASS tracking disruption is expected to be less than 60 minutes.

OEM6 users should ensure that they are using firmware version 6.200 (OEM060200RN0000) or higher to avoid this issue. A version 3.907 firmware fix for OEMV receivers will be made available on or before June 1st 2015.

Receiver firmware can be downloaded at the link below:

<http://www.novatel.com/support/info/view/gnss-receivers>

TerraStar Service Notice:

With respect to TerraStar corrections, GLONASS corrections will be temporarily suspended between 20:50 and 03:00 UTC on June 30th. At this time all TerraStar services will fall back to GPS only correction messages. Users may experience degraded accuracy and slower convergence times during this period. No user intervention is required as the GLONASS corrections will simply be omitted in the data stream over this period and then re-introduced once verified.

For more information please contact support@novatel.com