



GLONASS Enabled OEM Cards and the Dec 31st 2016 Leap Second

Summary:

On December 31st, 2016 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 6.400 (OEM060400RN0000) 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 December 31st, 2016. 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 GPS 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 GPS 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 GPS 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 6.500 (OEM060500RN0000) or higher to avoid this issue.

OEMV users should ensure that they are using firmware version 3.907 to avoid this issue.

Receiver firmware can be downloaded at the link below

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

For more information please contact support@novatel.com