



WAAS GUS Type-I Receiver 2019 GPS Week Rollover

Summary:

On April 7 2019, the GPS week number that is broadcast as part of the GPS message will roll over from 1023 to 0. Affected units will stop tracking all satellites until the system is reset.

Products Affected:

- WAAS GUS-Type 1

Affected Firmware Versions:

- WAAS firmware version x.104 or x.105 and all previous versions are affected.
- EGNOS firmware versions x.110A1 or x.110 and all previous versions are affected.

Details:

The GPS week number count began at 0 on January 5 1980, incrementing by one every week. At the completion of week 1023, the count rolls over to 0. The next week rollover will occur on April 7 2019. Current versions of the GUS-Type 1 WAAS and EGNOS firmware will stop tracking at the week rollover. Resetting the receiver after the event will restore normal operation.

Solution:

An unqualified Alpha version of software is available for both WAAS and EGNOS versions of the firmware that allows the product to operate correctly through the week rollover event. A fully qualified release version of software is expected to be available June 2017.

Contact Information:

For any questions or to obtain Alpha firmware for evaluation, please contact:

Allan MacAulay
Business Development Manager, Safety Critical Systems
allan.macaulay@novatel.com