Support Bulletin

Integrated Technologies
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GPS WEEK NUMBER ROLLOVER - APRIL 2019

A GPS Week Number Rollover (WNRO) will occur at the end of the GPS day on April 6, 2019.

Trimble BD and Trimble BX GNSS Receivers Information

A GPS Week Number Rollover (WNRO) will occur at the end of the GPS day on **April 6, 2019**. The GPS message structure broadcast by the satellites defines the week as a 10-bit value so that when the rollover occurs, the GPS messages will indicate that the week has changed from **1023** to week **0**.

Due to the WNRO, a GPS receiver that does not have compliant firmware will see errors. To guard against this, users are encouraged to make sure they have the latest compliant firmware versions for their receiver.

Trimble has performed tests using a GNSS simulator to verify that the receiver firmware correctly handles the week rollover in different scenarios, including Autonomous, SBAS, DGPS, RTK, and GNSS/INS positioning modes.

The majority of Trimble BD and BX receivers have shipped with a firmware version that is compliant with the 2019 WNRO event, and so a firmware upgrade is not necessary. Generally, if a receiver has a firmware version of 2.32 or greater it is expected to handle this rollover without any issues.

The following table provides the minimum firmware version required to handle WNRO along with the latest released firmware version.

Products	Supported Firmware Versions	
	Minimum	Latest
BD950	2.32	2.34
BD960	All Versions Supported	4.94
BX960	All Versions Supported	4.94
BD970	All Versions Supported	5.37
BD982	All Versions Supported	5.37
BX982	All Versions Supported	5.37
BD910	All Versions Supported	5.03
BD920	All Versions Supported	5.03
BD920-W3G	All Versions Supported	5.03
BD920-W	All Versions Supported	5.03
BD930	All Versions Supported	5.37
BD930-UHF	All Versions Supported	5.37
BD935-INS	All Versions Supported	5.37
BX935-INS	All Versions Supported	5.37
BD940	All Versions Supported	5.37
BD940-INS	All Versions Supported	5.37
BX940	All Versions Supported	5.37
BD990	All Versions Supported	5.37
BD992	All Versions Supported	5.37
BD992-INS	All Versions Supported	5.37
BX992	All Versions Supported	5.37

Trimble always recommends installing the latest receiver firmware version posted to the Trimble website. Go to https://www.trimble.com/Precision-GNSS/InTech-Receivers.aspx and select the appropriate product. The firmware can be found under the support tab.

For further information, please contact GNSSsupport@trimble.com.