Legacy Firmware Incompatibility with Russian SBAS SDCM PRN 140

Background:
The three-satellite Russian Space-Based Augmentation System (SBAS) called System for Differential Corrections and Monitoring (SDCM) will soon enter operation. PRN 125 is currently broadcasting and PRN 140 has been launched but is not yet being broadcast as part of the system almanac. PRN numbers for SDCM are outside of the range historically used by SBAS systems.

Issue Summary:
When PRN 140 is included in the SDCM almanac, some NovAtel products that are running older firmware versions <u>and</u> configured to use SBAS signals may report an error state. Note that by default receivers do not track the SBAS satellites.

Products Affected:

- OEM6 Series Receivers (OEM61x, OEM62x, OEM638, Flex6, SPAN-CPT, Smart6, Smart6-L)
    - Firmware versions prior to 6.21 (OEM060210RN0000)
- OEMV Series Receivers
    - Firmware versions prior to 3.906
- OEMStar receivers
    - Firmware versions prior to 1.105
- OEM4 Series Receivers
    - Firmware versions prior to 2.322

Mitigation:
If your receivers are not configured for SBAS operation, no action is required.

If you do use SBAS as part of your configuration, then check that you have the latest firmware version.

OEM6 version 6.510	http://www.novatel.com/assets/Documents/Downloads/UPDT6510.zip
OEMV version 3.906	http://www.novatel.com/assets/Documents/Downloads/3906UPDT.zip
OEMStar version 1.201	http://www.novatel.com/assets/Documents/Downloads/1201UPDT.zip
OEM4 version 2.322	http://www.novatel.com/assets/Documents/Downloads/2322OEM.zip

For assistance, please contact support@novatel.com