PIKSI MULTI FIRMWARE 2.3.19 RELEASE

August 27, 2019

Issue Fix - Receiver Restarting Unintentionally While Tracking GLONASS Satellites

Overview

The issue was first seen on August 9th, 2019. Swift Navigation receivers are exhibiting undesirable behavior when tracking GLONASS satellites resulting in an unanticipated restart. The issue has been root caused to the unforeseen change in the GLONASS constellation in early August where satellite R10 was retired and replaced with satellite R27 which was given a new frequency channel identifier. This created a situation with the GLONASS constellation that had previously not been seen in live-sky testing.

All Swift Navigation receivers with GLONASS acquisition enabled (Setting "acquisition.GLONASS_acquisition_enabled" = "True") are impacted by this issue. If GLONASS acquisition is disabled (Setting "acquisition.GLONASS_acquisition_ enabled" = "False"), the issue does not occur.

This firmware update solves the issue and allows Swift Navigation receivers to operate seamlessly in the new state of the GLONASS constellation.