



## FPRN News

October 18, 2017

### Network Upgrade

The FPRN will be undergoing an upgrade on **October 24<sup>th</sup> and 25<sup>th</sup>, 2017**. During this upgrade we may have the need to shut down service.

**PLEASE PLAN ACCORDINGLY**

The upgrade will allow the FPRN to:

- Support the Galileo and QZSS constellations
- Add RTCM 3.2 MSM to support GPS-L5, Galileo, and QZSS
- Add Galileo data to Rinex files

### Port Removal

The data streamed over TCP/IP ports represents less than 1% of the total data used on the FPRN. Due to lack of use, we are contemplating closing the following TCP/IP ports:

23101 – 23153	25501 – 25551
23201 – 23254	25601 – 25651
23301 – 23359	25701 – 25753
23401 – 23410	31101 – 31153
23501 – 23551	31201 – 31254
23601 – 23651	31301 – 31359
23701 – 23753	31401 – 31410
25101 – 25153	31501 – 31551
25201 – 25254	31601 – 31651
25301 – 25359	31701 – 31753
25401 – 25410	

TCP/IP ports represent antiquated technology that has not been incorporated into GNSS receivers for the past 12 years which accounts for its underutilization. Please contact either Ron Hanson or Scott Harper if you have a need for these ports to remain open.