

NYSNet Real Time Network (RTN)

rtn.dot.ny.gov

Real Time Corrections

Real time corrections are available from NYSNet under the following conditions:

- Connections to the network must be made using the internet.
- User authentication will make use of NTRIP (Networked Transport of RTCM via Internet Protocol): A secure means (login, password required) of transmitting correction data via TCP/IP. For some real time products, rovers must send in NMEA position.
- Data files will be in RTCM and CMR+ formats.

For further access to the RTN, you must [register](#) on this website.

Real Time GNSS Data Accuracy

Accuracy is dependent upon equipment and procedures. NYSDOT recommends testing the accuracy of all RTN products at each project site. Testing should include connections to local coordinate systems and datums.

Real Time GNSS Data Reliability

The NYSNet RTN is dependent upon a real time data stream through the NYSDOT information technology network. If the network connection to a particular site is down, the RTK processing software can deliver data from the next nearest site. Data from partner sites are dependent upon connections through the internet.

RTN Antenna Phase Center Offsets

The real time correction messages from this network are transformed to the ARP of the reference station antenna using the NGS absolute antenna calibration file. Rover users should use a NULL antenna definition for the reference station antenna type. This results in the rover not needing to know the actual antenna type of the reference stations.