



## **NYSNet Real Time Network (RTN)**

**[rtn.dot.ny.gov](http://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.

### **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**

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 into 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 reference stations.