Generating CORS and VRS Data
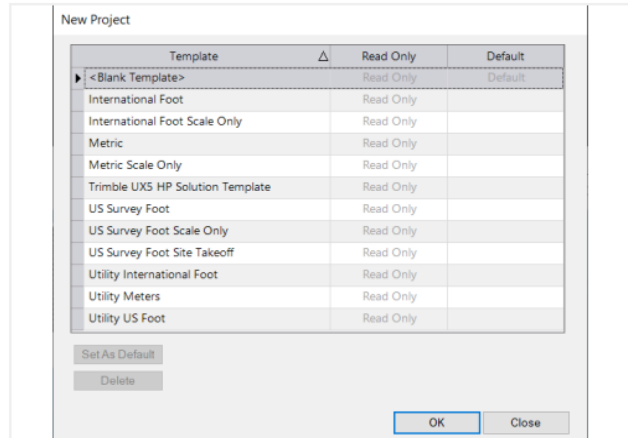
Using the iGate Module (Reference Data Shop) for MS RTN

Projects ⊕ New Project ⧉ Open Project
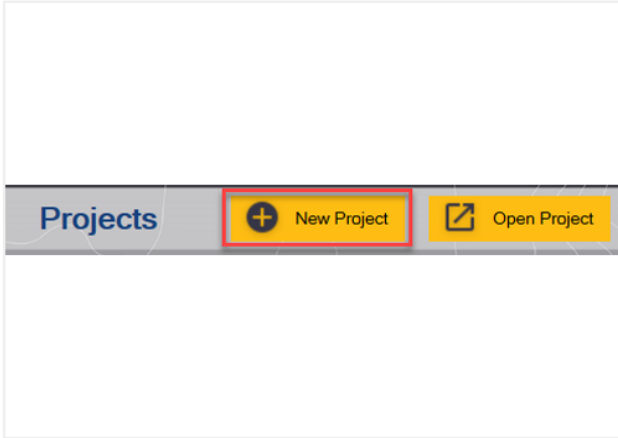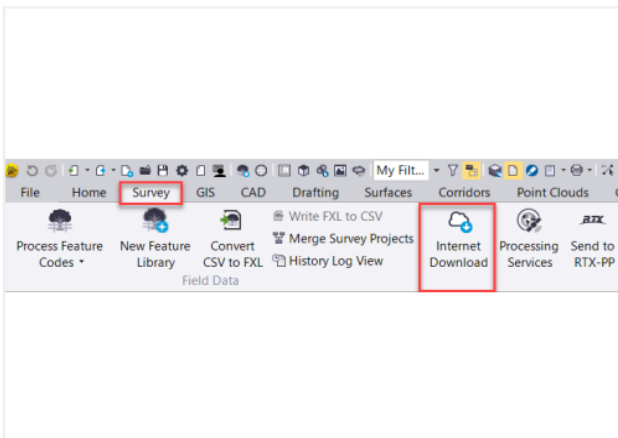
① You will need to have your Mississippi RTN login information, for example:
Organization Name: Test
Ntrip User Name: igate
Password: ******

You will need to open an existing project or create a new project to access > Internet Download.

New Project

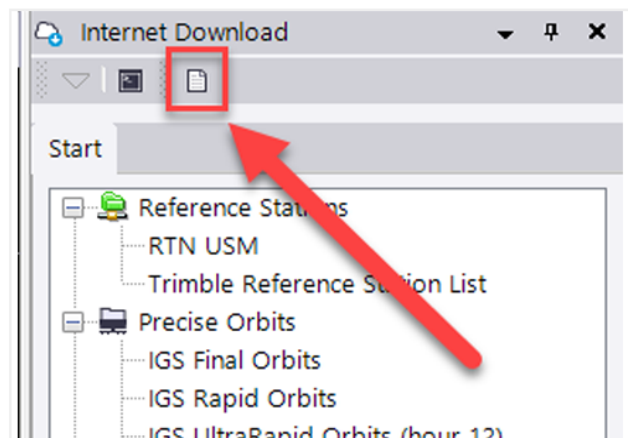| Template	△	Read Only	Default
▶ <Blank Template>		Read Only	Default
International Foot		Read Only	
International Foot Scale Only		Read Only	
Metric		Read Only	
Metric Scale Only		Read Only	
Trimble UX5 HP Solution Template		Read Only	
US Survey Foot		Read Only	
US Survey Foot Scale Only		Read Only	
US Survey Foot Site Takeoff		Read Only	
Utility International Foot		Read Only	
Utility Meters		Read Only	
Utility US Foot		Read Only	

Set As Default
Delete

OK   Close

② In this procedure, you will use the Internet Download command to download reference station data from any of the MS RTN base stations or VRS sites.


File Home Survey GIS CAD Drafting Surfaces Corridors Point Clouds
Process Feature Codes New Feature Library Convert CSV to FXL Write FXL to CSV Merge Survey Projects History Log View Internet Download Processing Services Send to RTX-PP
Field Data

③ Start the Trimble Business Center and then Select Survey > GNSS > Internet Download.

☁ Internet Download ▼ ⊟ ✕

Start

⊟ 🖳 Reference Stations
⋯ RTN USM
⋯ Trimble Reference Station List
⊟ 🚃 Precise Orbits
⋯ IGS Final Orbits
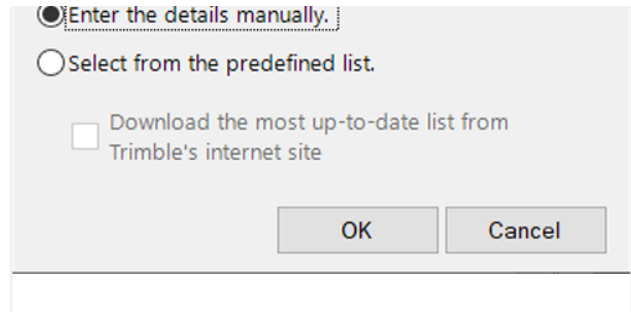⋯ IGS Rapid Orbits
⋯ IGS UltraRapid Orbits (hour 12)

④ Click the Internet Download Configuration icon on the Internet Download command pane's toolbar. The Internet Download Configuration dialog opens
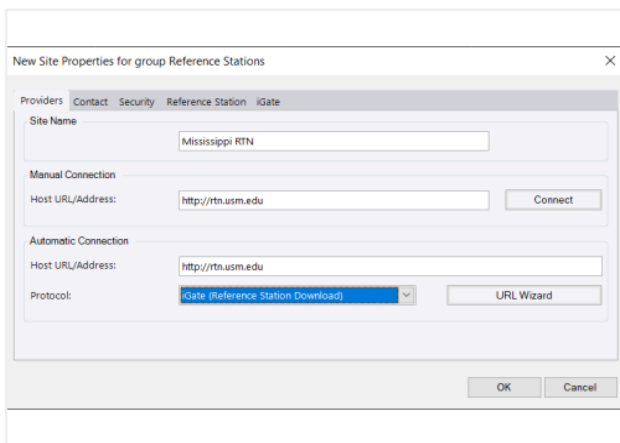

Internet Download Configuration ☐ ✕

Providers
⊟ 🖳 Reference Stations
⋯ ☑ Trimble Reference Station List
⊟ 🚃 Precise Orbits

OK
Cancel
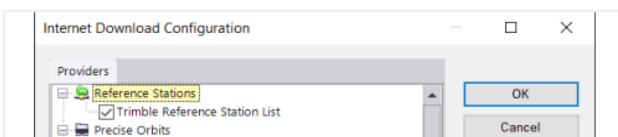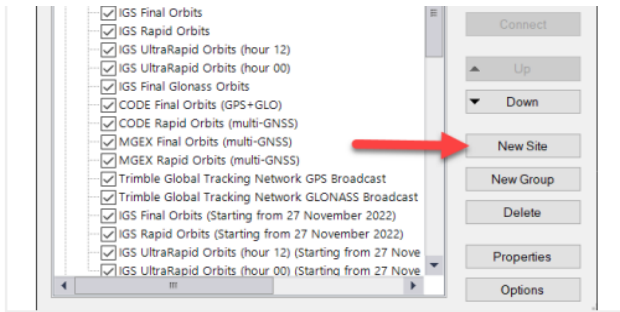
New Site ✕
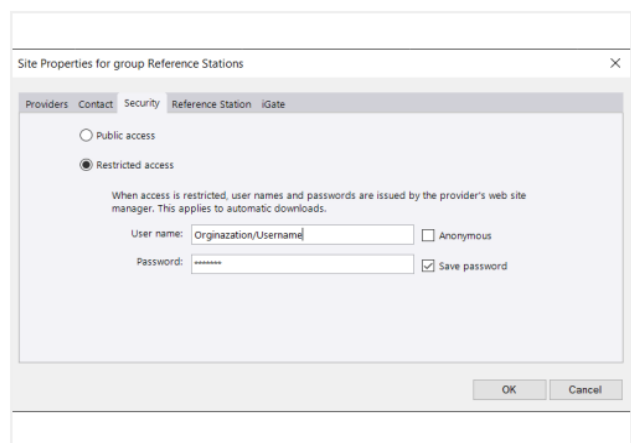
5 Click New Site:

**6** Select Enter details manually and then click OK:

7
1. In the Provider tab, enter a Site Name (for example, Mississippi RTN).

2. To ensure an Automatic Connection, enter the Host URL (for example, http://rtn.usm.edu. Make sure that you enter the URL inclusive http:// at the start of the URL.

3. Select the iGate (Reference Station Download) protocol.

8 Select the Security tab and select Restricted access. Enter the Ntrip access details - make sure that you enter the organization name followed by a slash (/) in front of the Ntrip User Name:
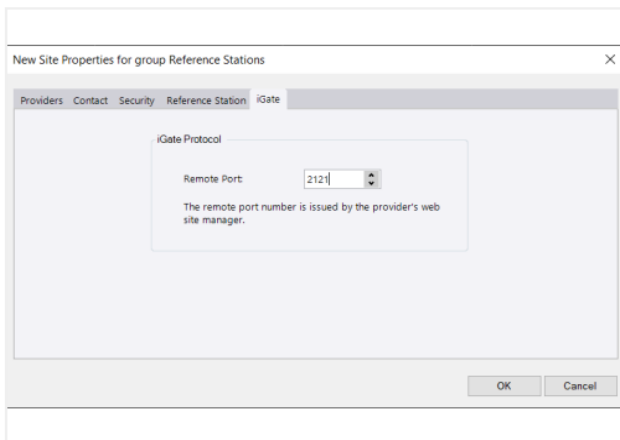
9 Select the iGate tab, select the Remote Port: 2121 and then click OK:
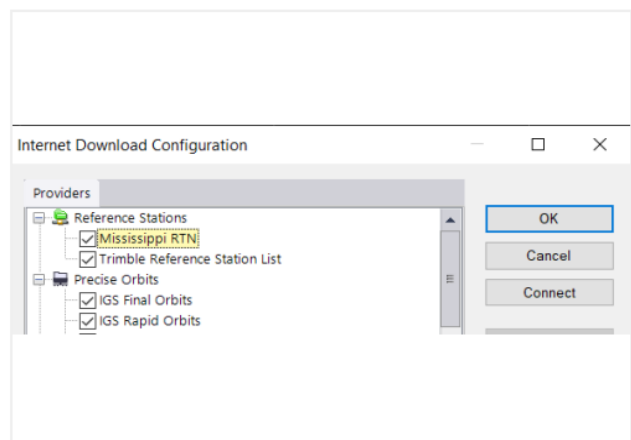
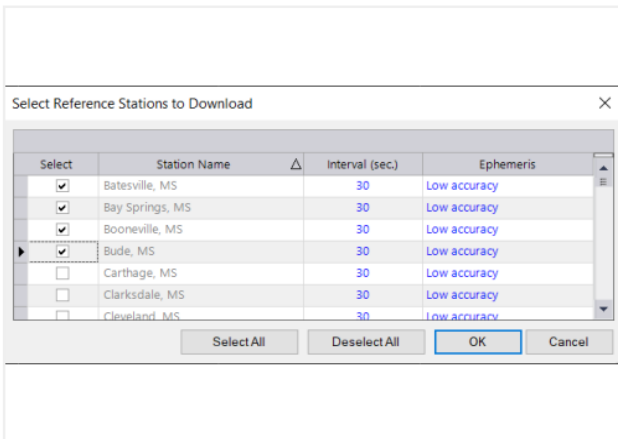**10** The new configuration (in this example, Mississippi RTN) appears in the list
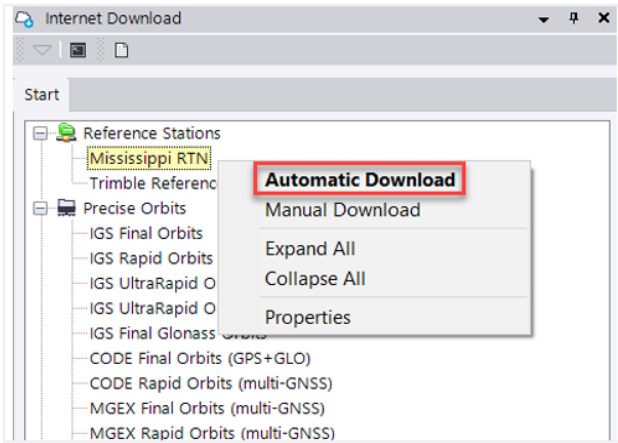
11 The new configuration also appears in the Internet Download dialog:
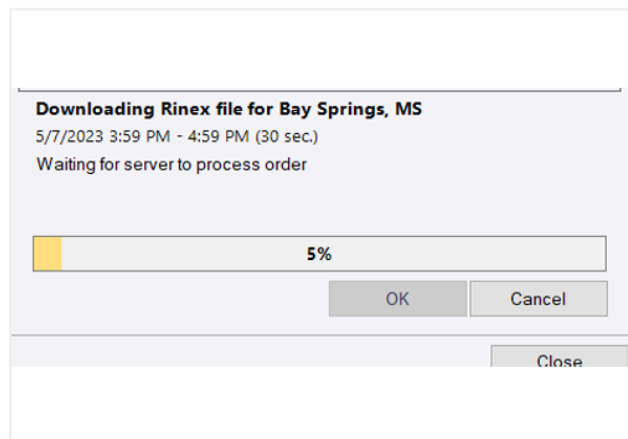
To download the station data, right-click the new configuration and then select Automatic Download:
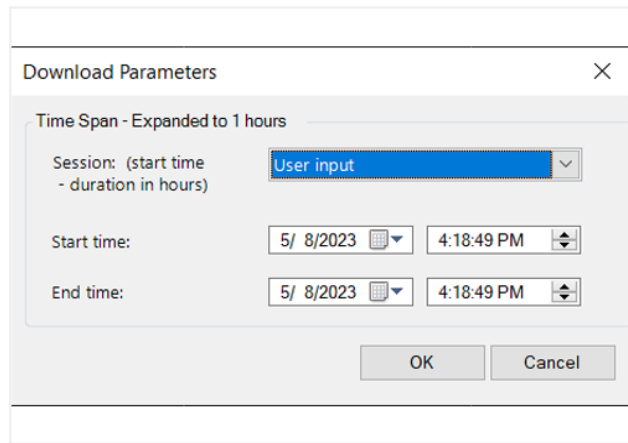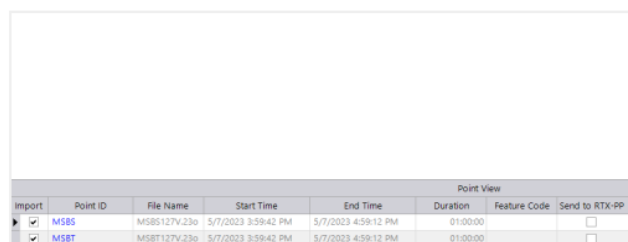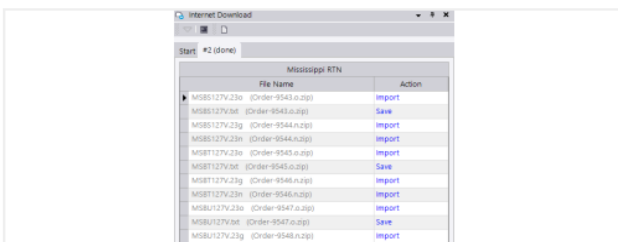

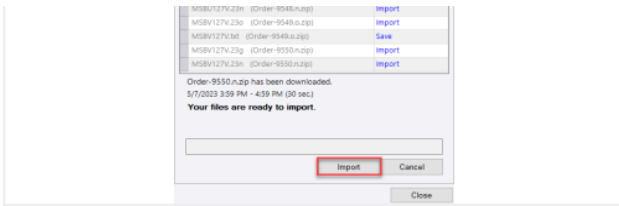**12** Select a time span and then click OK:

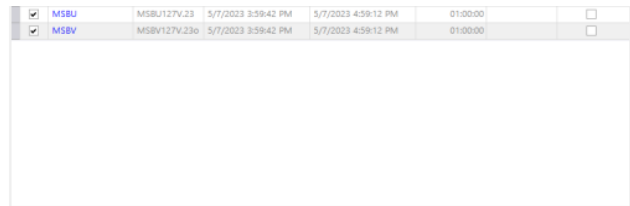**13** Trimble Business Center now starts to download the station list from the website.

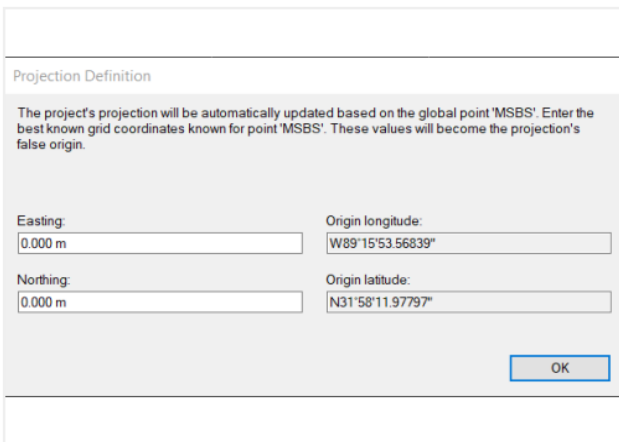**14** At this point, the station data (RINEX format) and the ephemeris are downloaded:

15 The downloaded files are listed in the Internet Download menu. From here you can select the files you want to import and then click Import to import them into the Trimble Business Center:
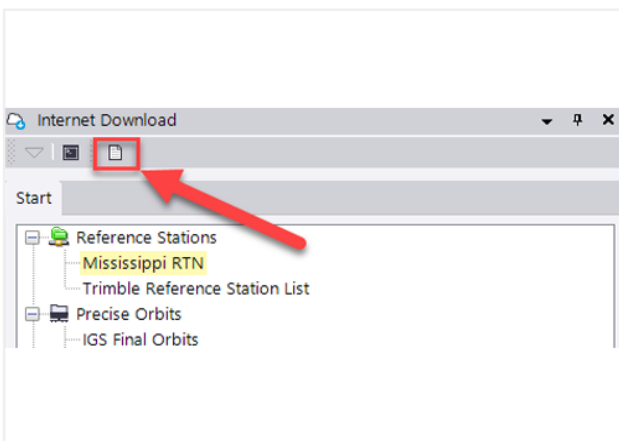

16 List of points to be imported with the option to Post Process against Trimble RTX service.
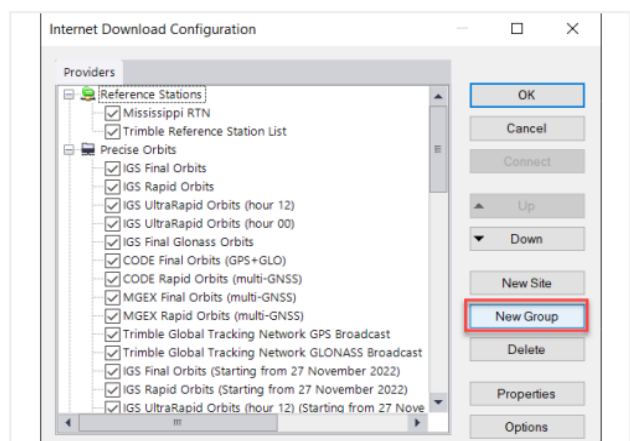

17 Project Definition Information:
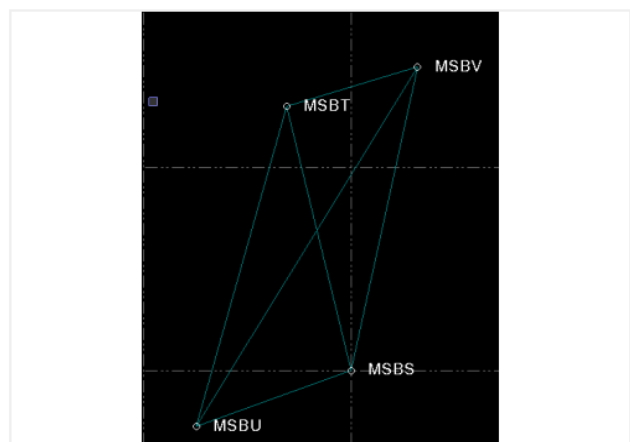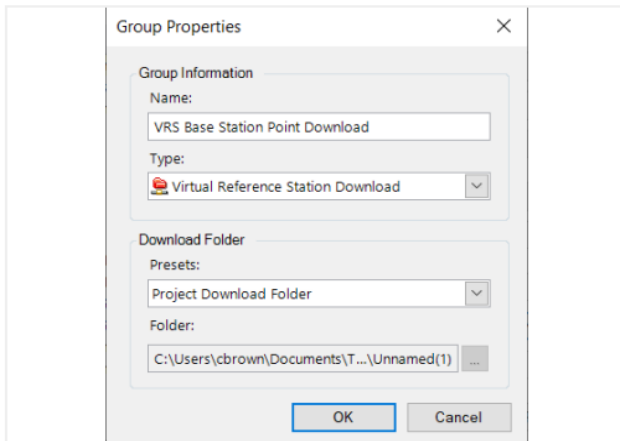

18 The Reference Station points are now imported into you project screen:
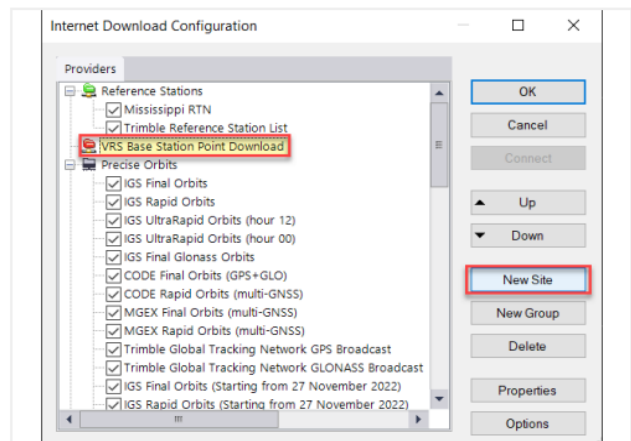

19 Downloading VRS Base Station Point data

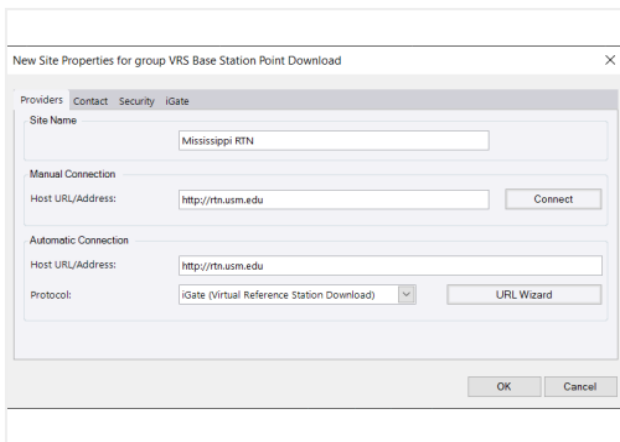To do this in the Trimble Business Center, you must create a new VRS group:

20 Add New Group for example (VRS Base Station Point Download)

21 In the Group Properties screen, select Virtual Reference Station Download from the drop-down list:

**22** Once the new group is added then create a New Site in the group you have created (same as above).

23 1. In the Provider tab, enter a Site Name (for example, Mississippi RTN).

2. To ensure an Automatic Connection, enter the Host URL (for example, http://rtn.usm.edu. Make sure that you enter the URL inclusive http:// at the start of the URL.

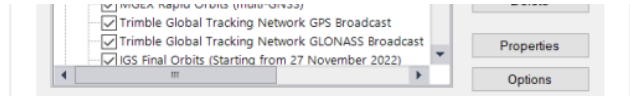3. Select the iGate (Reference Station Download) protocol.
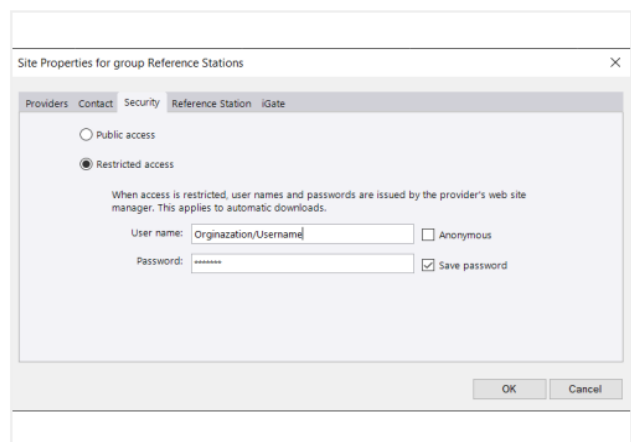
24 Select the Security tab and select Restricted access. Enter the Ntrip access details - make sure that you enter the organization name followed by a slash (/) in front of the Ntrip User Name:
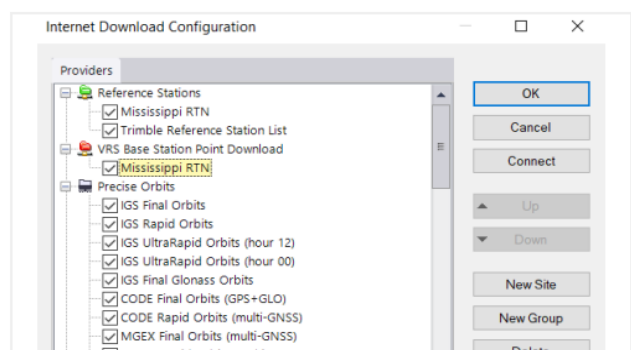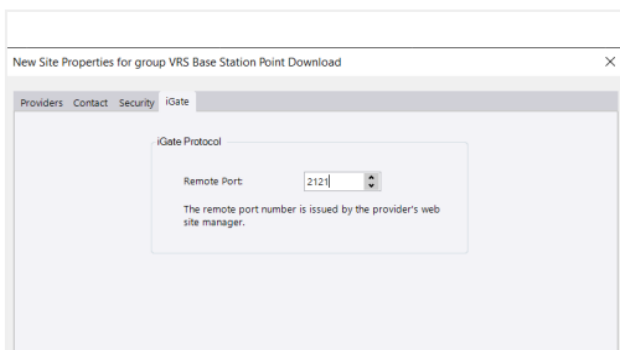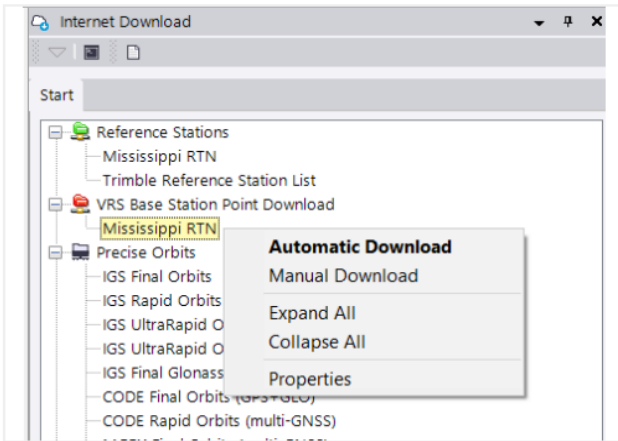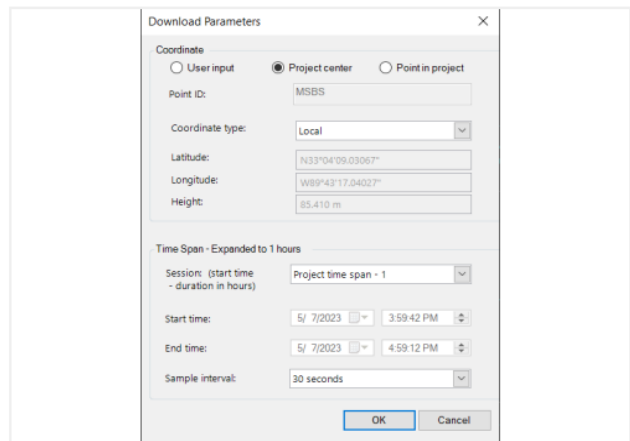
25 Select the iGate tab, select the Remote Port: 2121 and then click OK:


26 The new configuration (in this example, Mississippi RTN) appears in the list


27 To download the station data, right-click the new configuration and then select Automatic Download:

28 You can now generate VRS data for download in the same way as described for CORS data above. You have the option to define the VRS coordinates in three ways: as User input (as in the web application), Project center (of the Trimble Business Center plan view), or Point in project:
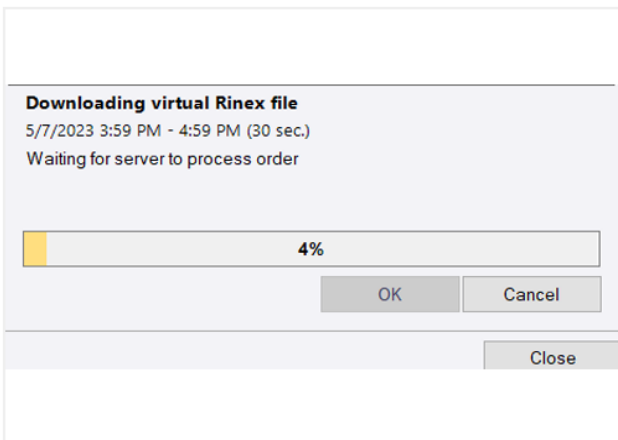

29 Downloading Virtual Rinex File:
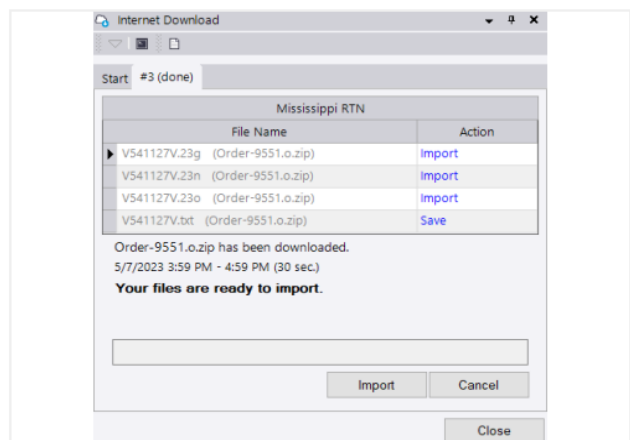
30 The downloaded files are listed in the Internet Download menu. From here you can select the files you want to import and then click Import to import them into the Trimble Business Center:

Point View							
Import	Point ID	File Name	Start Time	End Time	Duration	Feature Code	Send to RTX-PP
☑	V541	V541127V.23o	5/7/2023 3:59:42 PM	5/7/2023 4:59:12 PM	01:00:00		☐

31 VRS Base Station point to import into the project.
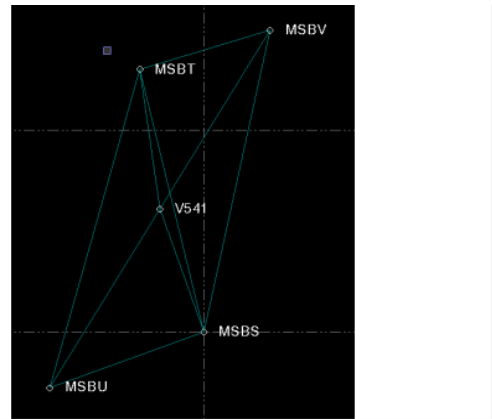
32 CORS and VRS base station point imported into project map.