

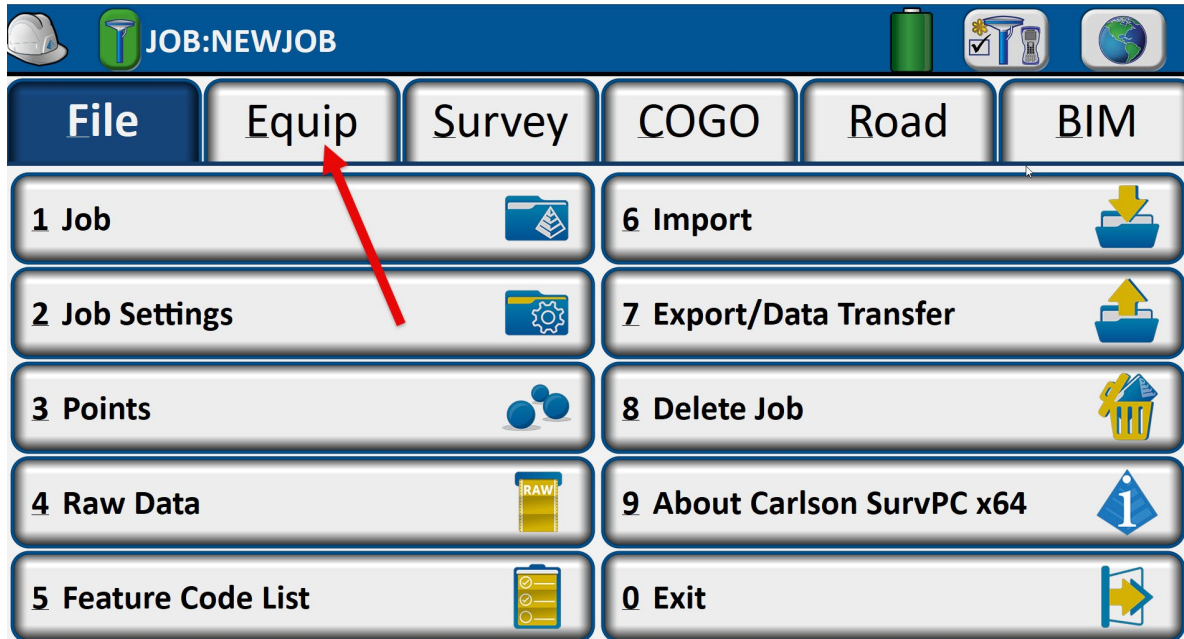
# MA CORS with Carlson SurvCE & SurvPC

## Quick Change to New Server

June 28, 2024

How to change MACORS server IP on Carlson SurvCE and SurvPC software.

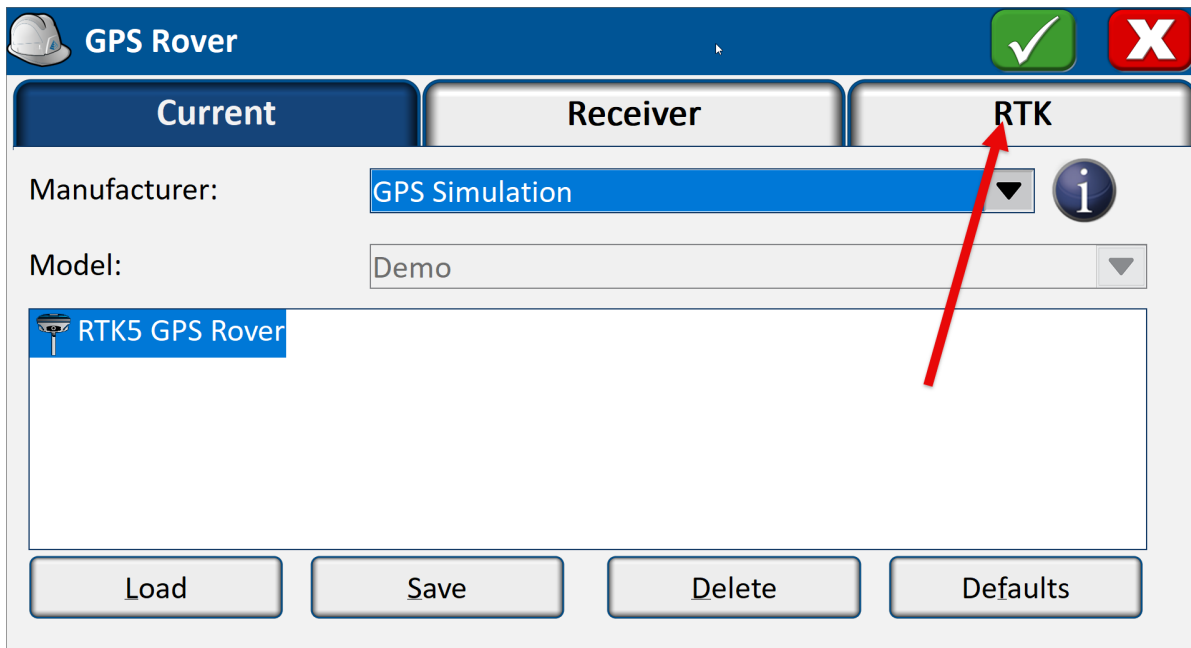
From the **Home Screen** click on the **Equip** tab at the top.



Click on the **GPS Rover** – selection 3



Click on the **RTK** tab at the top

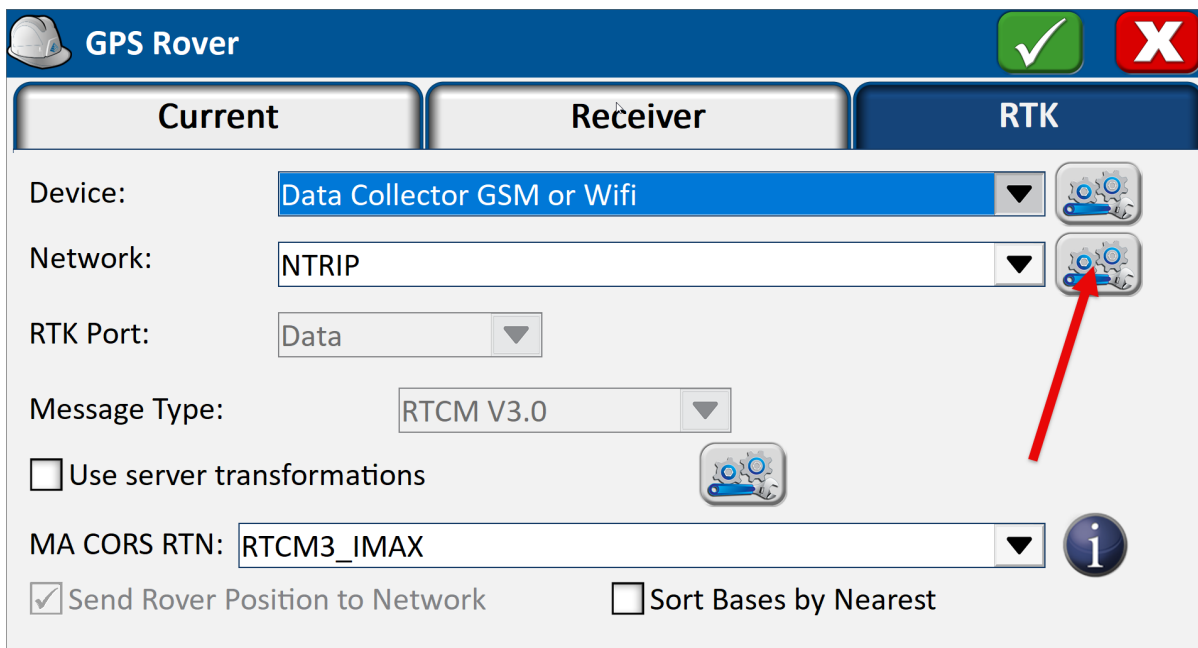


The screenshot shows the 'GPS Rover' application window. At the top, there is a blue header bar with a hard hat icon, the text 'GPS Rover', and two buttons: a green checkmark and a red 'X'. Below the header, there are three tabs: 'Current', 'Receiver', and 'RTK'. The 'RTK' tab is selected and highlighted in blue. The main area of the 'RTK' tab contains the following fields:

- Manufacturer:** A dropdown menu showing 'GPS Simulation' with a downward arrow and an information icon (i) to its right.
- Model:** A text input field containing 'Demo' and a downward arrow to its right.
- A list box below the 'Model' field containing one item: 'RTK5 GPS Rover' with a small antenna icon to its left.
- At the bottom of the 'RTK' tab, there are four buttons: 'Load', 'Save', 'Delete', and 'Defaults'.

A red arrow points from the 'RTK' tab label to the 'Manufacturer' dropdown menu.

Click on the **NTRIP Configuration Gear**






The screenshot shows the 'GPS Rover' application window with the 'RTK' tab selected. The configuration options for NTRIP are visible:

- Device:** A dropdown menu showing 'Data Collector GSM or Wifi' with a downward arrow and a gear icon to its right.
- Network:** A dropdown menu showing 'NTRIP' with a downward arrow and a gear icon to its right.
- RTK Port:** A dropdown menu showing 'Data' with a downward arrow.
- Message Type:** A dropdown menu showing 'RTCM V3.0' with a downward arrow.
- ☐ Use server transformations: A checkbox with a gear icon to its right.
- MA CORS RTN:** A dropdown menu showing 'RTCM3\_IMAX' with a downward arrow and an information icon (i) to its right.
- ☒ Send Rover Position to Network: A checked checkbox.
- ☐ Sort Bases by Nearest: An unchecked checkbox.

A red arrow points from the 'Network' dropdown menu to the gear icon next to it.

We are going to enter the New Server **URL for MACORS** in the IP address field.

**macorsrtk.massdot.state.ma.us** (New server IP 98.159.149.88)

 **NTRIP Broadcasters**  

Name:  ▼

NewDelete

IP addr:

Port:

User:

Pwd:

Broadcaster Information




Identifier:

Operator:

Position0.00S 0.00W ,

Misc:

NMEA:Rover position not needed.

 **NTRIP Broadcasters**  

Name:  ▼

NewDelete

IP addr:

Port:

User:

Pwd:

Broadcaster Information

Identifier:




Operator:

Position0.00S 0.00W ,

Misc:

NMEA:Rover position not needed.

Click on the **Green Check Mark** to confirm changes

 **NTRIP Broadcasters**  

Name:  ▼

NewDelete

IP addr:

Port:




User:

Pwd:

Broadcaster Information

Identifier:  
Operator:  
Position0.00S 0.00W ,  
Misc:  
NMEA:Rover position not needed.

Click on the **Green Check Mark** to confirm changes

 **Bases for MA CORS RTN**  

Name:  ▼

NewDelete

User Name:

Password:

Identifier:

Short Id:

Type:

Format:




Position:

Misc:

☒ Send Rover Position to Network

☐ Sort Bases by Nearest


Click on MA CORS available Mount Point down arrow.


 **GPS Rover**  


Current


Receiver


RTK



Device: Data Collector GSM or Wifi 

Network: NTRIP 

RTK Port: Data 

Message Type: RTCM V3.0 

☐ Use server transformations 

MA CORS RTN: RTCM3\_MAX  

☒ Send Rover Position to Network ☐ Sort Bases by Nearest


Maine Technical recommends the RTCM3MSM\_IMAX or RTCM3\_IMAX.


RTCM3MSN\_IMAX will provide you with all the full constellations for corrections.



RTCM3\_X are used if only GPS, GLONASS Constellations

RTCM3MSM\_X are used for the full GNSS Constellations (GPS, GLONASS, GALILEO, BEIDOU)

These are 5 GNSS constellations available GPS (US), QZSS (Japan), BEIDOU (China), GALILEO (EU), and GLONASS (Russia).

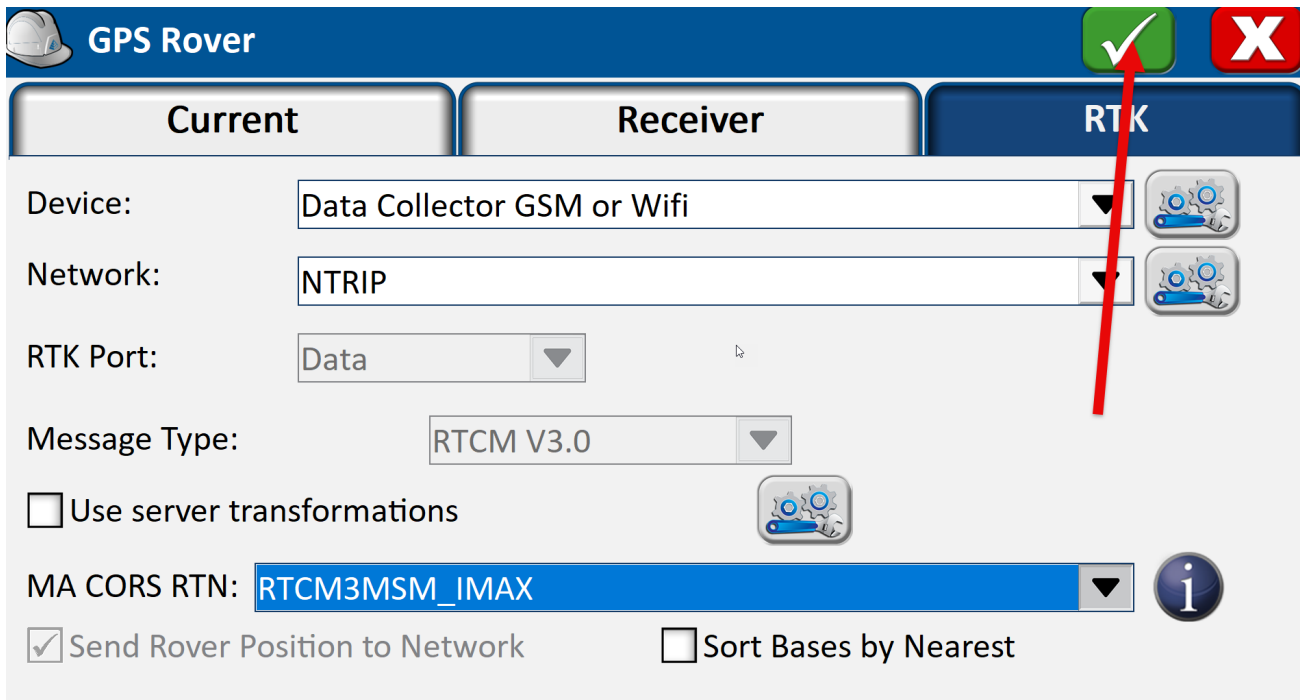
Message Type: RTCM V3.0 

☐ Use server transformations 

MA CORS RTN: RTCM3MSM\_IMAX  

☒ Send Rover Position to Network ☐ Sort Bases by Nearest

Once you select your mount point Click on **Green Arrow** to confirm changes.



The image shows the 'GPS Rover' software interface. At the top, there is a blue header bar with a hard hat icon on the left, the text 'GPS Rover' in the center, and two buttons on the right: a green button with a white checkmark and a red button with a white 'X'. Below the header, there are three tabs: 'Current', 'Receiver', and 'RTK'. The 'RTK' tab is currently selected and highlighted in dark blue. The main area of the interface contains several settings:

- Device:** A dropdown menu showing 'Data Collector GSM or Wifi' with a downward arrow and a gear icon to its right.
- Network:** A dropdown menu showing 'NTRIP' with a downward arrow and a gear icon to its right.
- RTK Port:** A dropdown menu showing 'Data' with a downward arrow.
- Message Type:** A dropdown menu showing 'RTCM V3.0' with a downward arrow.
- ☐ **Use server transformations** with a gear icon to its right.
- MA CORS RTN:** A dropdown menu showing 'RTCM3MSM\_IMAX' with a downward arrow and an information icon (a blue circle with a white 'i') to its right.
- ☒ **Send Rover Position to Network**
- ☐ **Sort Bases by Nearest**

A red arrow points from the bottom of the screen up to the green checkmark button in the top right corner of the interface.

This has now completed the changes needed for MACORS' new servers.