Establishing a PPP connection under Windows 7

To establish a PPP connection between a Trimble receiver (the server) and a computer (the client) that is running the Windows7 operating system, you need to install the direct cable connection as a modem device using the modem setup procedure:

1. On the computer, click Start / Control Panel / Phone and Modem. The Phone and Modem dialog appears.
2. Select the Modems tab and then click Add.
   
   **Note – You will need administrator’s rights to do this.**

![Phone and Modem dialog]

The Add Hardware wizard appears.

3. Select the Don’t detect my modem. I will select it from a list. check box and then click Next.
4. Select the *Communications cable between two computers* option and then click **Next**.

5. Select the *Selected ports* option and then select the serial com port (COM 1). Click **Next**.

   *Note – A null cable is required for this connection.*
6. Click Finish.

7. In the Modems tab of the Phone and Modem dialog, select the new COM1 connection and then click Properties.
8. In the *Properties* dialog for the connection, select the *Modem* and then change the *Maximum Port Speed* field to 38400. Click **OK**.
9. Select the Advanced tab and then click Change Default Preferences.

10. In the Flow control field, select None and then click OK.
11. Click **OK** to close the *Properties* dialog for the connection.

12. In the *Modems* tab of the *Phone and Modem* dialog, click **OK** to save your changes.
13. On the computer, click Start / Control Panel / Network and Sharing Center and then select Set up a new connection or network.

- **View your active networks**
  - **trimblecorp.net**
    - Domain network
    - Access type: Internet
    - Connections: Local Area Connection
  - **Systems2**
    - Public network
    - Access type: Internet
    - Connections: Wireless Network Connection (Systems2)

- **Change your networking settings**
  - Set up a new connection or network
  - Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.
  - Connect to a network
  - Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.
  - Choose homegroup and sharing options
  - Access files and printers located on other network computers, or change sharing settings.
  - Troubleshoot problems
  - Diagnose and repair network problems, or get troubleshooting information.
14. Select the *Set up a dial-up connection* option and then click **Next**.

![Set Up a Connection or Network](image)

**Choose a connection option**

- **Connect to the Internet**: Set up a wireless, broadband, or dial-up connection to the Internet.
- **Set up a new network**: Configure a new router or access point.
- **Manually connect to a wireless network**: Connect to a hidden network or create a new wireless profile.
- **Connect to a workplace**: Set up a dial-up or VPN connection to your workplace.
- **Set up a dial-up connection**: Connect to the Internet using a dial-up connection.

![Set up a dial-up connection](image)

15. If you have created more than one modem device on your computer, you are prompted to select the modem to use. Select the *Communications cable between two computers* modem.
16. Enter the appropriate information from your ISP. You must enter a phone number, so if necessary enter a fictitious one. In the **Connection name** field, enter a unique name so that you can easily identify your new PPP connection. Click **Connect**.
17. To skip the connection test, click **Skip**.
18. A message confirms that the connection is ready for use. Click **Close**.

19. On the computer, click **Start / Control Panel / Network and Sharing Center** and then select **Connect to a network**.
20. A list of available connections appears on the computer. Select the PPP connection you created and then click **Connect**.

21. The **Connect** dialog appears. Click **Properties**.

22. In the **Properties** dialog, select the **General** tab and then click **Configure**.
23. In the Modem Configuration dialog, change the value in the Maximum speed field to 38400. Make sure the Enable hardware flow control check box is clear and then click OK.

24. Return to the Properties dialog and select the Networking tab.

26. In the **Internet Protocol Version 4** dialog, click **Advanced**.
27. In the IP Settings tab, clear the Use default gateway on remote network check box. Click OK.
28. Click **OK** to return to the *Properties* dialog for the PPP connection.

29. Connect the receiver to the computer's COM1 port using a null modem serial cable. You do not need to enter a user name and password. Click **Dial**.
A dialing message appears.

If you receive a connection error similar to the one shown the issue may be a Microsoft driver issue:

30. If this message does not appear, skip to step 33. If this message appears, do the following:

   1. click **Close**.
   2. Restart the computer.
   3. Once restarted, try the connection again. To do this, return to the *Network and Sharing Center* in the computer’s *Control Panel* and click *Connect to a network*.

31. From the connections list on the computer, select the PPP connection and then select Connect.
32. Connect the receiver to the computer at COM1 using a null modem serial cable. Click Dial. (No user name and password is required.)

A connection window appears, showing Dialing.

33. Once connected, return In the View Active Networks area. Your PPP connection appears:
34. To verify the connection is active, click the Connections link for the PPP connection:

35. In the Status window, check the time duration and then select the Details tab.
36. In the Details tab, note down the information in the Server IPv4 address field:
37. Open an Internet browser window and enter the Server IP address in the address line:

38. A Windows Security dialog appears. Enter the following information:

   user name: Admin
   password: password

Once connected successfully, a web page similar to the one below appears: