14 September 2011

Trimble Handheld Computers: Connecting to the Internet Through a Bluetooth-enabled Mobile Phone

This support note describes how to connect the following Trimble® handheld computers to the Internet using a mobile phone as a modem: GeoExplorer® 6000 series, GeoExplorer 3000 series, 2008 series, Trimble Nomad®, and Trimble Recon® handhelds, powered by the Microsoft® Windows Mobile® version 6.x operating system.

Note: For technical assistance with your mobile phone, contact your mobile phone carrier.

Requirements

- A Bluetooth® enabled mobile phone with DUN (Dial-up Networking) capability
- A data-plan with your mobile carrier

Depending on the model of your phone, and your carrier, you may also require:

- The Trimble Dial-String Editor application
- The custom dial string for your phone and carrier

  Some phones/carriers do not require a custom dial string to establish an Internet connection. Your mobile phone carrier will be able to provide you with the specific connection details for your model of phone, which may include:

  – A username and password

  – The carrier's access point name (APN)

  – The "Phone Number" required to establish a connection

  – Any additional required dial string

Procedures

1. If your mobile phone carrier requires a custom dial string, install and set up the Trimble Dial String Editor.

2. Set up the connection to the Internet:

   a. Set up a Bluetooth wireless connection to your mobile phone.

Trimble Navigation Limited, 10355 Westmoor Drive, Suite #100, Westminster, CO 80021, USA

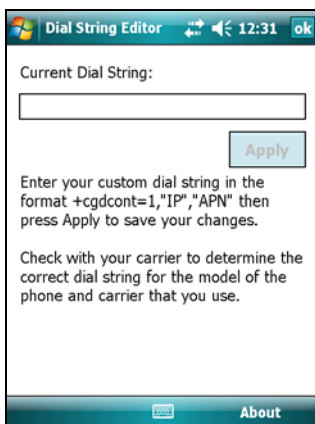b. Set up a new Internet connection.

c. Connect to the Internet.

Installing the Trimble Dial String Editor

If your mobile phone carrier does not require a custom dial string, go directly to Setting up a Bluetooth connection to your mobile phone.

1. Download DialStringEditor.CAB:

   a. From an office computer, go to http://www.trimble.com/support.

   b. Click on the name of your device.

   c. Click **Downloads**.

   d. Click *Dial String Editor (Windows Mobile 6, 6.1, 6.5)* to download the file DialStringEditor.CAB.

2. Close any applications or files that are running on the handheld.

3. Copy the file DialStringEditor.CAB to the handheld.

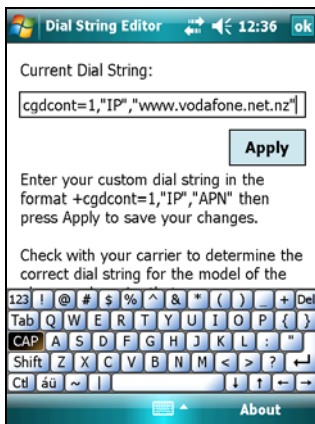4. On the handheld, tap the file to install the application:

5. Tap **Yes**. The handheld reboots.

6. Select / *Settings* / *Connections* / *Dial String Editor*:

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7. Enter the custom dial string for your combination of phone and carrier in the format:

   +cgdcont=1,"IP","APN"

   Where "APN" is the Access Point Name of your carrier:

8. Tap **Apply** to save your changes.
9. Tap **OK** to close the Dial String Editor.

When you set up a New Internet Connection to an external modem, the custom dial string that you just saved is sent to the modem when you attempt to connect to the Internet.

Setting up a Bluetooth connection to your mobile phone

1. Make sure that Bluetooth technology is enabled on your mobile phone and that it is discoverable.
2. On the handheld, select / *Settings* / *Connections* / *Bluetooth*.

Note: *For alternative connection methods, refer to the User Guide for your Trimble handheld.*

3. Tap **Add new device…** to search for your mobile phone:

4. Once the handheld finishes searching for available Bluetooth devices to connect to, tap the name of your device to select it:

5. Tap **Next**. Enter a passcode to establish a secure connection between your Trimble device and the phone.

    You must enter the same passcode on the phone; the phone may prompt you to add the handheld to a list of paired/saved devices:
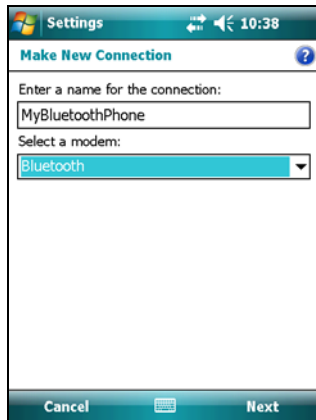

6. Confirm the passcode on your mobile phone and then tap **Next**:

7. Confirm that *Dialup Networking* is selected and then tap **Finish** to complete setting up the partnership.

Setting up a new Internet connection

1. On the handheld, select ⊞ / *Settings* / *Connections* / *Connections*.

2. Under the heading *My ISP*, tap *Add a new modem connection*:

3. Enter a name for the new Internet connection and then select *Bluetooth* from the *Select a modem* list. Tap **Next**:

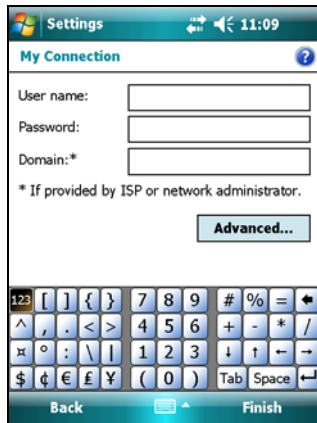4. From the list, choose the Bluetooth device that you set up earlier and then tap **Next**:

5. Enter the number to establish a data connection provided by your carrier (for example, *99#). Include any numbers you need to dial for an outside line, and the local area code. Tap **Next**:

6. Enter the username and password for your Internet account. (If you do not enter the username or password in this step, you must enter it each time you connect to the Internet.)

Note: Trimble recommends that you confirm that the phone can access the Internet directly. If necessary, contact the cellular phone provider and confirm whether you must enter a user name, password, and domain details when connecting an external device to the phone using Bluetooth dialup networking.
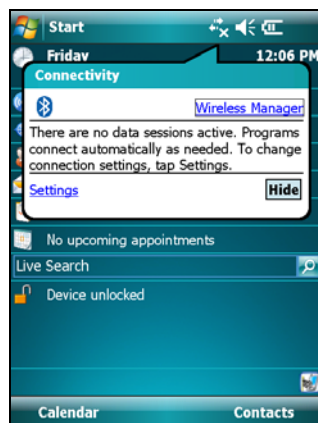

Note: Unless you have been instructed otherwise by your phone carrier, do not change any Advanced settings
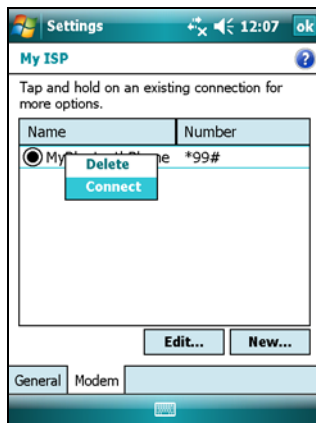
7. Tap **Finish**.

Connecting to the Internet

Do one of the following:

- To connect automatically using the default ISP connection, run an application that requires an Internet connection (for example, Pocket Internet Explorer).

- To connect manually:

  a. Tap the Connection icon in the navigation bar:

  b. Tap **Settings**.

  c. Tap the Connections icon.

  d. Under the heading *My ISP*, tap *Manage existing connections*.

e. Tap and hold the connection that you want to use to connect to the Internet:

f. From the pop-up menu, select *Connect*.

Note: *If you did not specify a username or password when you set up the connection, the Network Log On dialog appears. Unless the phone provider confirmed that you must enter user name, password, and domain settings to access the Internet, tap* **Finish** *on the right softkey without entering any information in this screen. Otherwise, enter the required information and then tap* **Finish***.*

To confirm that the handheld is connected to the phone, or to check the status of the connection at any time, tap the Connectivity icon in the title bar. The notification shows the name of the current connection, and the time elapsed since the connection was made. To hide the notification, tap **Hide**.

Note: *If you have an active Wireless LAN connection, the connectivity icon appears as instead.*

To check the connection status at any time, tap or in the title bar.

To end the connection at any time, tap or in the title bar and then tap **Disconnect**.