

### PREPARATION

- Make sure that the cellular phone is fully charged prior to field work. It is recommended to operate the phone only when performing this procedure.
- The cellular phone defaults to Bluetooth connectivity. The cellular phone must be within a 30-foot range of the controller in order to maintain communications. It is recommended to hang the cellular phone on the antenna pole in order to maintain optimum Bluetooth and cellular connectivity.
- A predefined list of CORS stations is available in the controller. Please consult with the equipment manager to determine whether a station is available in the region you will be surveying.

### CONFIGURING THE PHONE

1. Power on the phone. Wait for the desktop screen to appear. (This is represented by the "T-Mobile" label and date being on the screen.) Also, check that the Bluetooth symbol is visible on this screen. If it is not visible, navigate through the phone menu to turn on Bluetooth.
2. Place the phone in a location within range of the controller. No further action should be required.


### CONNECTING TO THE PHONE

1. Power on the controller, and check that Bluetooth is turned on. From the desktop, tap **Start / Settings / Connections** tab / **Connections** icon. Under the *My ISP* heading, tap **Manage existing connections**.
2. In the following connections list, tap and hold the name of the phone you are using, and select **Connect**. In the Network Log-on screen, tap **OK** (no additional information is necessary). When the connection is established, tap the **ok** or the **X** in the upper right corner of the screen to navigate backwards to the desktop.
3. (Optional) To test the connection, tap **Start / Internet Explorer**, and navigate to a website that offers real-time information (such as [www.weather.com](http://www.weather.com)). If the information is current, then the connection is established.

### CONNECTING TO THE R8

Power on the R8. Open the Survey Controller program. From the Survey Controller main menu, tap **Configuration / Controller... / Bluetooth**. Select the appropriate R8 unit from the "Connect to GNSS Receiver" list. Tap **Accept** in the lower right hand corner of the screen. Wait for a status indication on the right side of the screen to verify communication with the R8.

### BEGINNING / ENDING SURVEY WORK

1. From Survey Controller main menu, tap **Survey / GPS CORS** or **RTCM GNSS CORS / Start Survey**. A message may appear informing that a cellular connection is already in progress; tap **OK**. After a few seconds, the CORS stations list will appear; choose the relevant entry. When the base information has been received, a message will eventually be displayed as "Initialization has been gained".
2. Tap **Survey**, and then choose whatever data collection procedure is required. (You will have to provide a receiver height for the R8 before surveying; the software will prompt you when necessary.)
3. When finished, tap **Survey / End GNSS Survey**. Let the software power down the R8.
4. Tap the  at the top of the screen to show cellular connection status. Tap **Disconnect** to end the cellular connection. Power down the phone.