

GPSPush (v 1.1)

User Manual

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1. Purpose

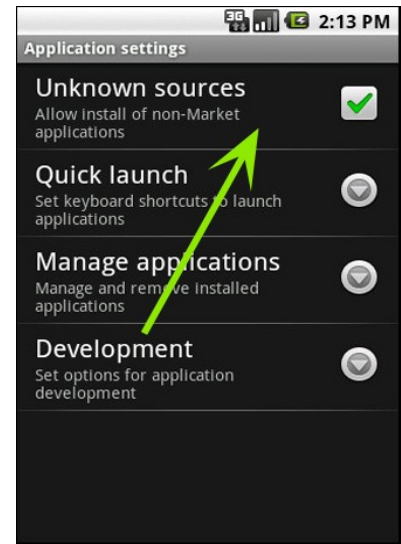
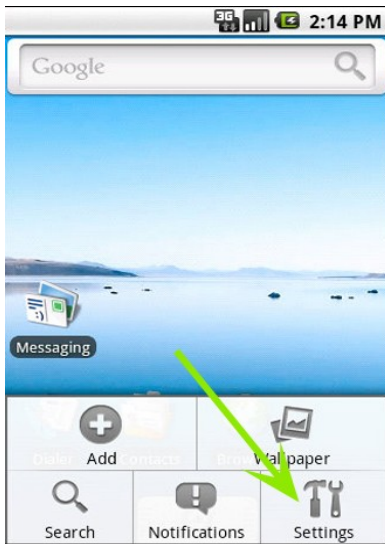
Our GPSPush tool is an Android application for use on a phone that is co-located with a laptop computer running one of our Call Doctor or Iron voice/data testing solutions. The GPSPush application is used to acquire and push GPS data to the Tropper Technologies' real time server system. The GPS data is then sent back down to the co-located Iron or Call Doctor tool, thus providing the laptop with location information.

2. Requirements

- Phone running Android 1.6 or higher (phone must include integrated GPS hardware)
- Phone must have a working broadband data connection for various authentication and data transfer tasks.

3. Installation

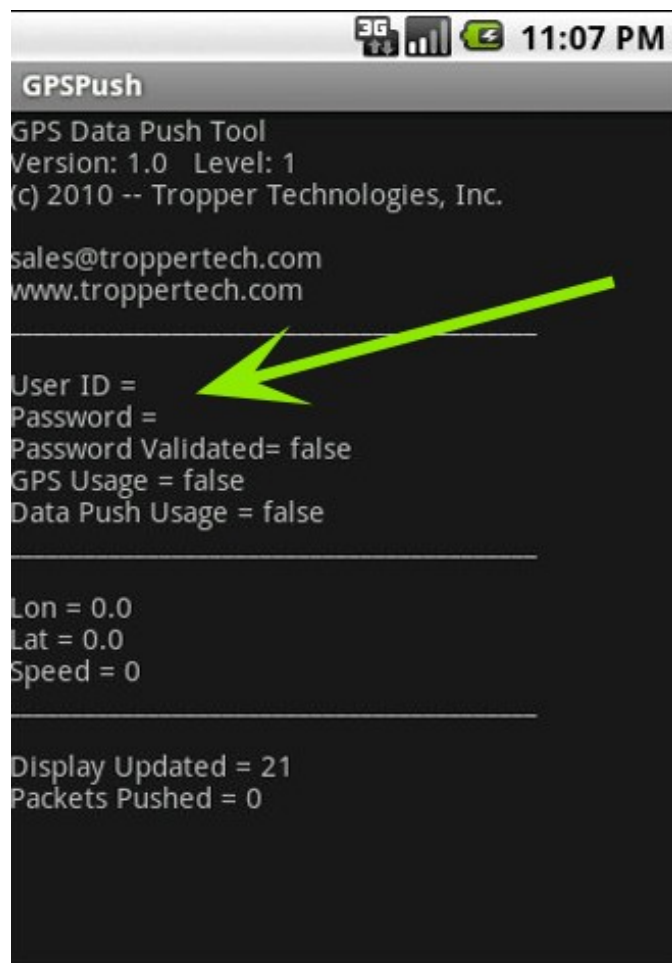
- Before installing the GPSPush software, verify that the Android operating system “Allow install of non-market applications” tick box is checked (from the Home screen click “Settings” → “Applications” → “Unknown Sources”):



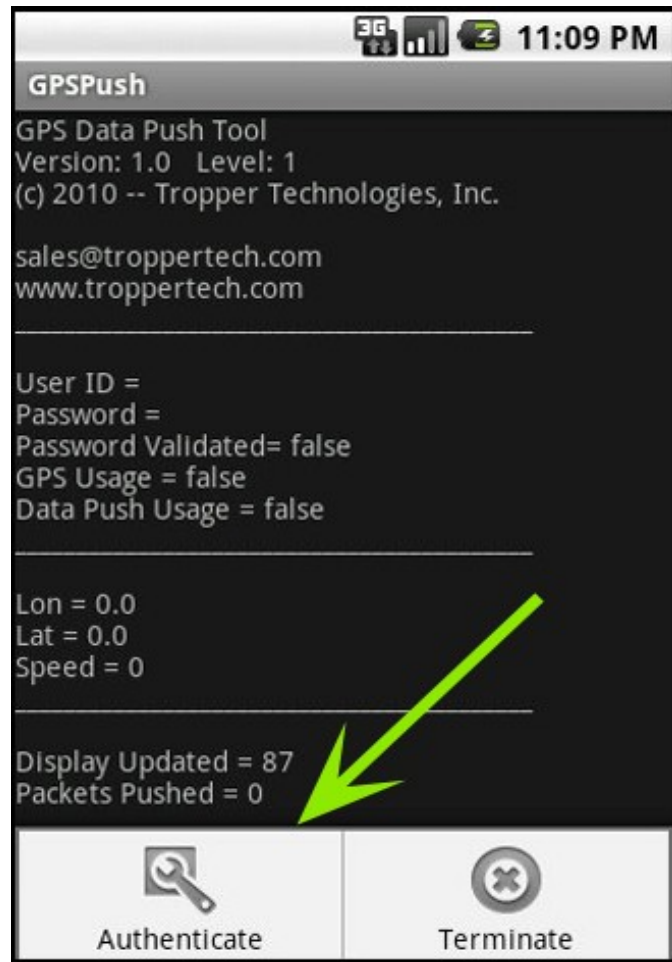
- Download the GPSPush mobile client from the Tropper Technologies website onto your phone.
- Follow the on-screen prompts.

4. Initialization

The first time the GPSPush software is used the GUI will appear as follows (note the blank UserID and Password fields):



To authenticate, press the phone's "Menu" button and then click the "Authenticate" selection as follows:



Enter the UserID and Password* into the provided text boxes and then press “OK”:

*** Note, please contact us to obtain a UserID and Password if you do not already have them.**



The GPSPush software will then exit and provide a prompt to re-start the software.

When the software restarts, if the UserID/Password were **not** validated*, then the “Password Validated” flag will be set to “false:

*** Possible causes include an invalid UserID/Password combination or a slow or non-existent Internet data connection.**

In the case of a slow or non-existent Internet data connection, exit the GPSPush software, rectify the Internet connectivity issue and re-start the GPSPush software.



In this case, simply press “Menu”→ “Authenticate” and try again, following the procedure described above.

Once the Password has been validated*, the “Password Validated” flag will be set to “true”:

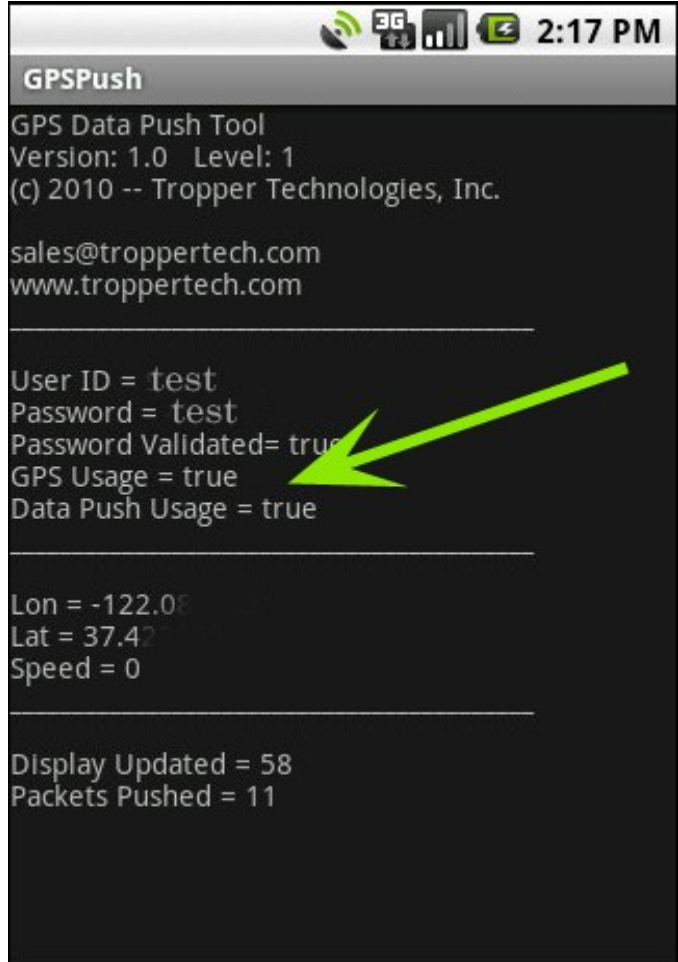
*** Note: This validation process should need to be completed only once for a given phone (each time the software is used again, the “Password Validated” flag should automatically be set to “true”).**



Finally, the GPSPush software will verify* required Usage Rights (GPS and Data Push) by polling our server system.

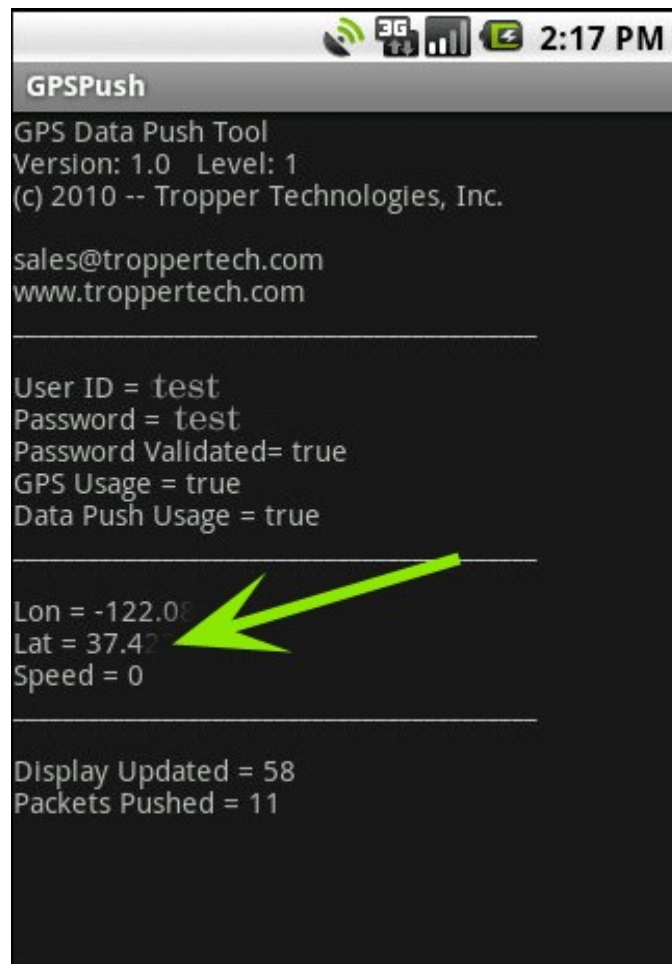
The GUI will indicate that such Usage Rights are available by setting the “GPS Usage” and “Data Push Usage” flags to “true” as follows:

*** One possible cause for a failure to verify the Usage Rights is a slow or non-existent Internet data connection. In this case, exit the GPSPush software, rectify the Internet connectivity issue and re-start the GPSPush software.**



5. GPS

When the GPSPush software is running and GPS use has been validated (see above) the software utilizes the phone's GPS hardware for real-time GPS data:



The GPS data includes latitude, longitude and speed. The GPS data is added to other data and pushed back on a packet by packet basis to our server system as described below in Chapter 6 – **Pushing Data**.

6. Pushing Data

When the GPSPush software is running and Data Push use has been validated (see above) the software pushes data up to server system (for use, for example, with our Windows-based Call Doctor and Iron voice and data testing solutions).

The data is pushed to our server system (via the phone's Internet connectivity path). The GPSPush software pushes the data at approximately 5 second intervals.

The data includes latitude, longitude and speed.

A running total of the number of data packets pushed is shown in the GUI:



7. Exiting the Program

To exit the program, simply press the phone's “Back“ button or press the phone's “Menu” button and then click the “Terminate” selection as follows:



Before exiting, the software will prompt for confirmation:

