

MobileTrak Lite for Windows Mobile



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Bluetooth® QD ID: B012541

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Introduction

MobileTrak® Lite is a demonstration application designed to run on mobile devices, such as a BlackBerry™, a device running the Windows Mobile operating system, or on a PC running Windows XP or Vista. MobileTrak Lite is designed to connect to an RF Code Mobile Reader through a *Bluetooth* connection. The *Bluetooth* connection allows MobileTrak Lite to receive tag information acquired from the Mobile Reader allowing the application user to locate specific assets or inventory assets which have been “tagged” with an RF Code active tag.

MobileTrak Lite has several configuration options for searching and inventory tracking. The user has the ability to search for asset(s), set specific ranges to search within, and email or export asset information to a host computer in XML format. The Application Loader program provided with the BlackBerry Desktop Software Application or Microsoft® ActiveSync™ can be used to upload MobileTrak Lite to the appropriate portable device.

The M220 Mobile Reader can be connected to your portable device or PC via a *Bluetooth* connection. The mobile reader and portable device allow you to search for assets in any location. The reader collects asset tag data and MobileTrak Lite running on your portable device interprets and displays asset tag information.

Requirements

MobileTrak Lite supports the following:

- CE.NET 4.2+
- Windows Mobile Pocket PC version 5 (Premium Edition, Professional Edition, Phone Edition)
- Windows Mobile version 6 (Professional Edition, Classic Edition)
- .NET Compact Framework version 2.0 SP2 (or higher)



- MobileTrak Lite will **ONLY** work with **Touchscreen enabled devices**.
- MobileTrak Lite will NOT work with Windows Mobile 5 for Smartphones
- MobileTrak Lite will NOT work with Windows Mobile 6 Standard
- All Windows Mobile 6 Professional and Classic devices come with the .NET Framework 2.0 or later.
- Many Windows Mobile 5 devices come with an older (unsupported) version of .NET Compact Framework and may need to be upgraded.

For instruction about upgrading the .NET Compact Framework, please access the following web page:

[http://msdn2.microsoft.com/en-us/library/ms180723\(VS.80\).aspx](http://msdn2.microsoft.com/en-us/library/ms180723(VS.80).aspx)

Features

Some of the features included with the MobileTrak Lite are:

- Graphically displays signal strength to reveal the proximity of the asset tag
- Audible indicator when tag is found
- Import XML Configuration File consisting of Tag IDs and Group Codes
- Export information gathered from Tag search into XML File
- Motion, Tamper, Panic, and Low Battery icon indicators for each tag
- Capable of searching up to 25 tags
- Ability to set the mobile reader search range to one of 8 preset modes
- Ability to search for a specific asset tag by manually inputting TagID and Group Code

Installation

To install the MobileTrak Lite software on your Windows Mobile device, perform the following steps:

1. Ensure that your handheld device is connected to your PC through a docking station or USB cable that came with your handheld device.
2. To connect to your handheld device you will need to use Microsoft ActiveSync 4.5 (XP users) or Microsoft Windows Mobile Device Center 6.1 (Vista users) software. To download the latest versions use the following websites:
 - Microsoft ActiveSync - <http://www.microsoft.com/windowsmobile/activesync/activesync45.msp>
 - Microsoft Windows Mobile Device Center - <http://www.microsoft.com/windowsmobile/devicecenter.msp>
3. Install MobileTrak Lite for Windows Mobile from the RF Code Reader Utilities and SDK CD. If the CD autorun program does not launch the main menu, you can use Windows explorer to browse to the CD drive and double-click on the autorun file to bring up the menu. Select the appropriate menu (MobileTrak Lite for Windows Mobile) and follow the prompts in the Setup Wizard to install the Windows Mobile version of the MobileTrak Lite application.

Connecting to Reader

Before you can begin using the MobileTrak Lite application with your handheld device, you must first setup a connection to your M220 Mobile Reader that is part of the RF Code mobile tracking solution. To do this you must pair the *Bluetooth* enabled M220 Mobile Reader to your handheld device. Depending on the type of handheld device you are using, there are two different methods of pairing. To connect your reader with your handheld device, follow one of the two methods below:

Microsoft *Bluetooth* Stack

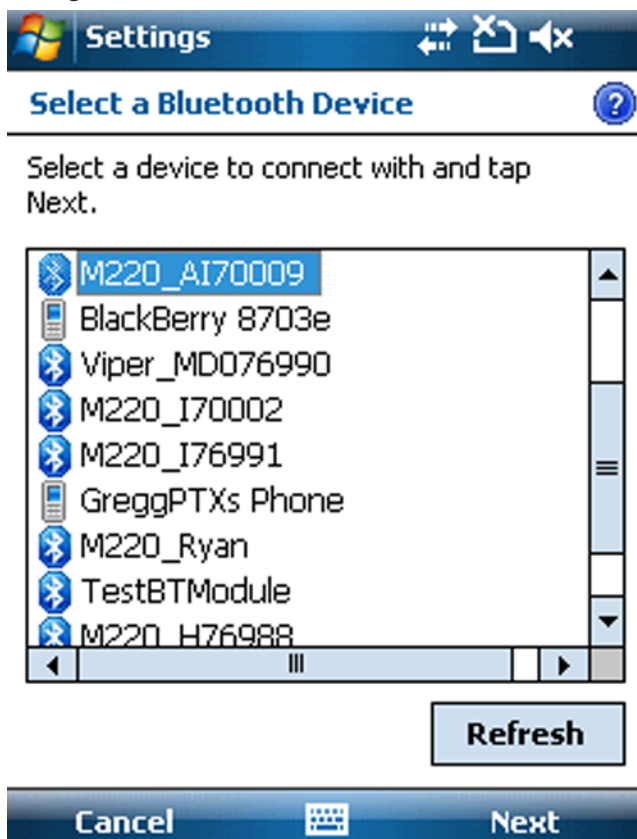
1. Access the *Bluetooth* Manager on your handheld device by navigating to **Start>Settings>Connections>Bluetooth**, and tap **Add New Device**. (Figure 1).

Figure 1 Add New *Bluetooth* Device



2. The *Bluetooth* Manager will automatically generate a list of *Bluetooth* enabled devices. Select your Reader and tap **Next**. (Figure 2).

Figure 2 Select M220 Reader in *Bluetooth* Device List



3. Enter the passkey (the default is 0000) and tap **Next** as seen in (Figure 3).

Figure 3 Enter Passkey



4. Check the **Serial Port** box and tap **Finish**. (Figure 4).

Figure 4 Select Serial Port



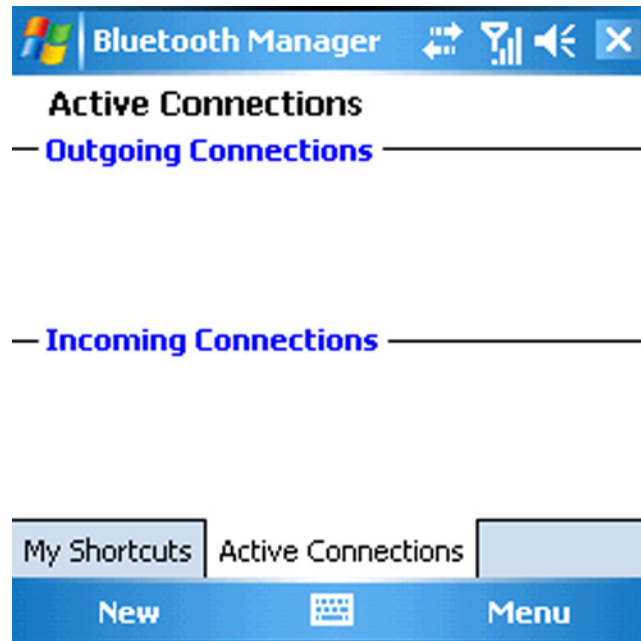
5. Your reader will now show up as a *Bluetooth* paired device. Tap **OK** to exit the *Bluetooth* Manager. (Figure 5).

Figure 5 Bluetooth Paired Reader



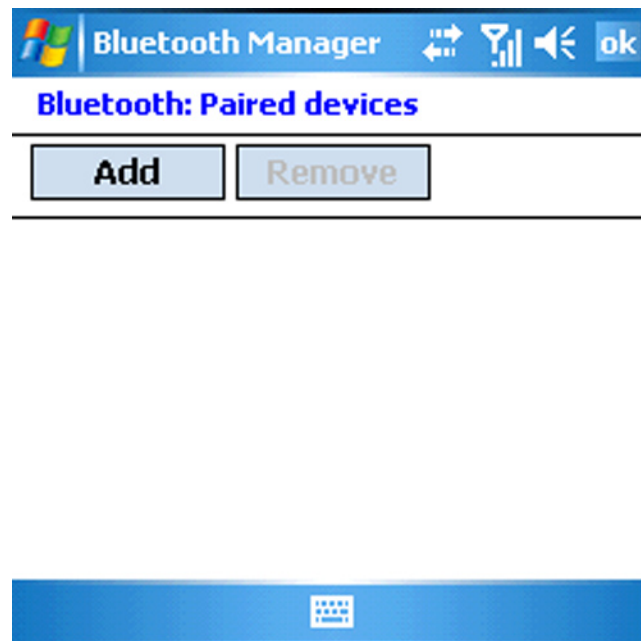
1. Access the *Bluetooth* Manager on your handheld device by navigating to **Start>Settings>Connections>Bluetooth>Bluetooth Manager**, and tap on the **Active Connections** tab. (Figure 6).

Figure 6 *Bluetooth* Manager Active Connections Screen



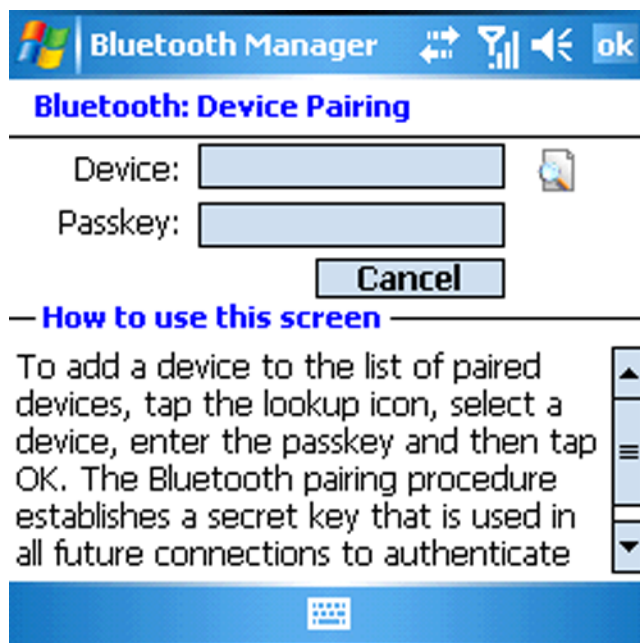
2. Create a New connection by tapping on **Menu>Paired Devices**. (Figure 7).

Figure 7 Add *Bluetooth* Paired Device



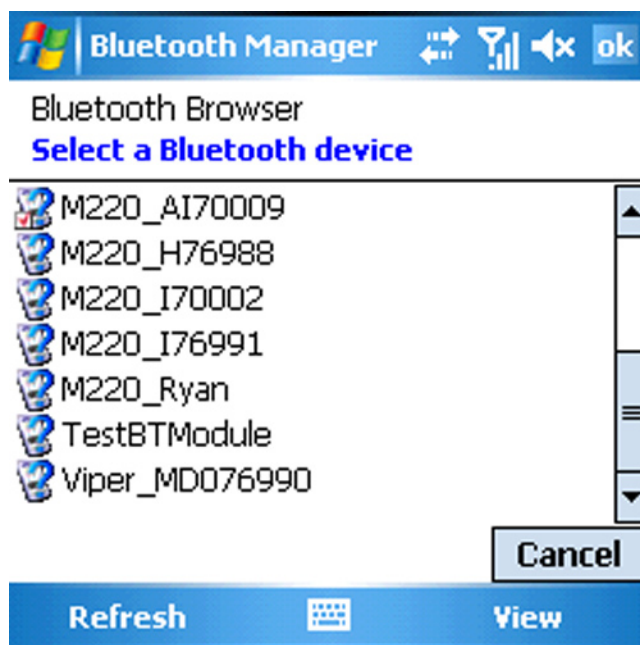
3. Tap the **Add** button and the following screen will display (Figure 8)

Figure 8 Add New *Bluetooth* Device



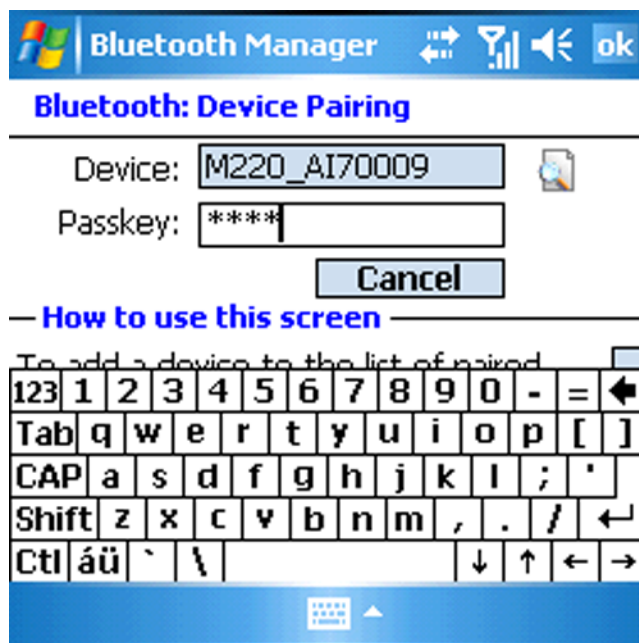
4. Tap the **Search icon** to the right of the **Device box**, and a list of *Bluetooth* enabled devices will automatically be found by your handheld device (Figure 9).

Figure 9 Add New *Bluetooth* Device



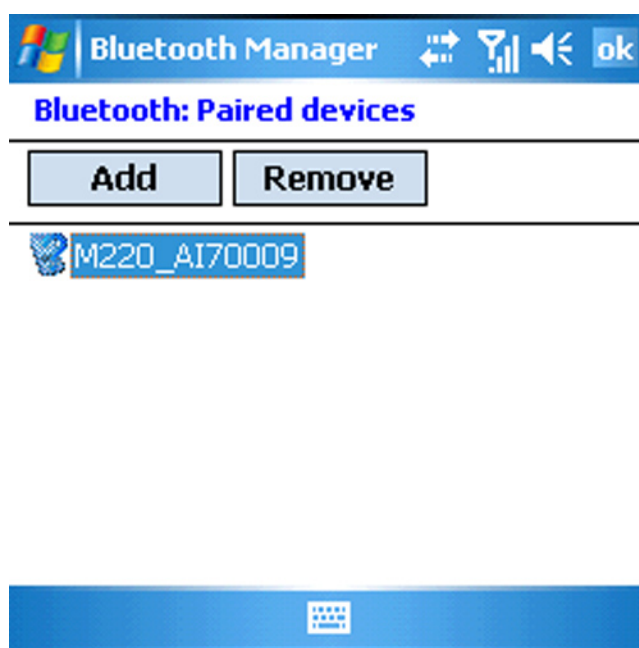
5. Select your reader from the list, set the passkey (the default is **0000**) and tap **OK** as seen in (Figure 10).

Figure 10 Enter Passkey



6. Your reader will now appear in the in the list of paired devices (Figure 11). Tap **OK** to continue.

Figure 11 Paired *Bluetooth* Devices List



7. You must now create a shortcut to the Reader so that you can connect to it. To create a Shortcut, tap on the **My Shortcuts** tab and browse to **New>Explore a Bluetooth Device** (Figure 12).

Figure 12 Explore *Bluetooth* Devices



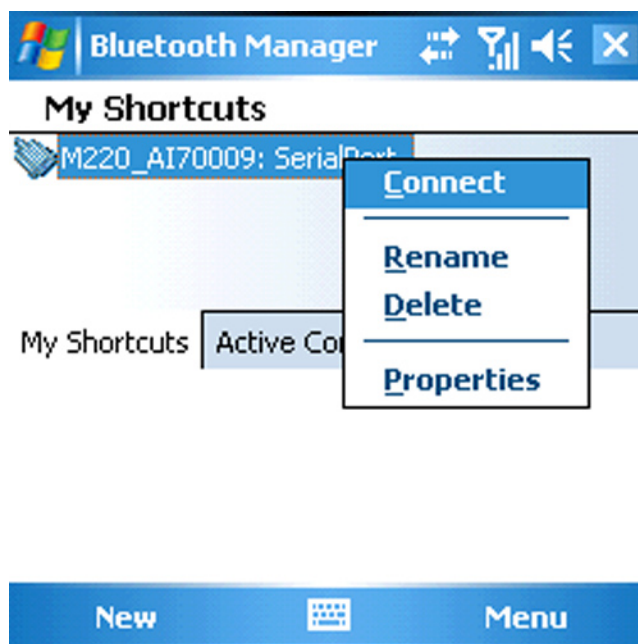
8. The *Bluetooth* Manager will automatically find the reader. Create a shortcut connection to your M220 Mobile Reader by selecting it from the list and selecting Serial Port (Figure 13).

Figure 13 Create shortcut to M220 Mobile Reader



9. Your M220 Mobile Reader will now appear in the My Shortcuts tab. Highlight the reader and access the dropdown menu and select **Connect** to connect to your reader (Figure 14).

Figure 14 Add New *Bluetooth* Device

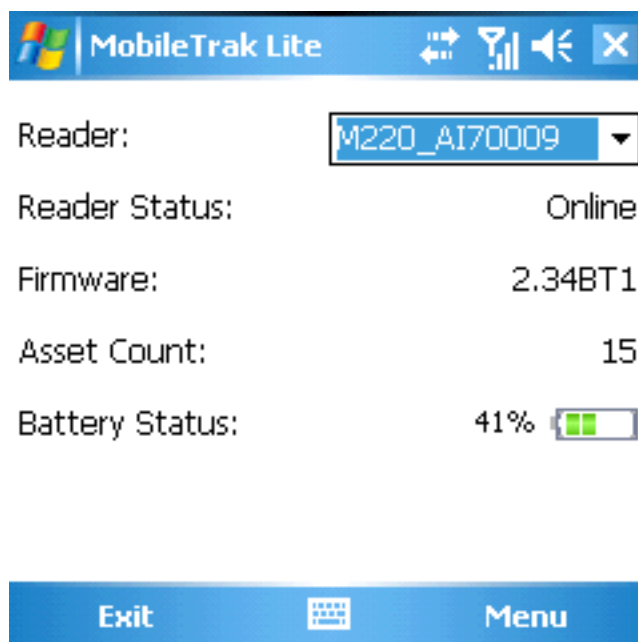


Your handheld device is now paired with your M220 Mobile Reader. You can now begin using the MobileTrak Lite software to track and inventory your tagged assets.

Launching Application

After installing MobileTrak Lite and pairing the M220 Mobile Reader to your handheld device, select and open the MobileTrak Lite application by going to **Start>Programs> MobileTrak Lite**. The initial screen is shown in Figure 15.

Figure 15 MobileTrak Lite Main Screen



Main Menu Options

The MobileTrak Lite application features the four Main Menu Options. They are explained in detail below:

Import Configuration

This option allows you to import a configuration of tagged assets that has been outlined in an XML file. To assist you in the creation of a configuration XML file, a support form is available at the following URL:

<http://www.rfcode.com/mtlcfg>

Once you have completed this form, it will be emailed to you at the address specified.

To manually generate a configuration file, you can utilize the sample_mobiletrak.xml file that is located on the CD or create an XML similar to the example provided below. Make sure to populate with the Tag IDs, related group codes, and Zones, etc. that you are planning to monitor with the MobileTrak Lite software.

```
<mobiletrak version="1.0">
  <assets>
    <asset name="Gas Tank" desc="Generic Gas Tank">
      <tag id="00000059" taggroupid="MTGPLV"/>
    </asset>
    <asset name="Laptop 1" desc="Generic Laptop">
      <tag id="00000001" taggroupid="RFCLOC"/>
    </asset>
    <asset name="Laptop 2" desc="Generic Laptop">
      <tag id="00000002" taggroupid="RFCLOC"/>
    </asset>
    <asset name="Laptop 3" desc="Generic Laptop">
      <tag id="00000003" taggroupid="RFCLOC"/>
    </asset>
    <asset name="Laptop 4" desc="Generic Laptop">
      <tag id="00000004" taggroupid="RFCLOC"/>
    </asset>
    <asset name="Laptop 5" desc="Generic Laptop">
      <tag id="00000005" taggroupid="RFCLOC"/>
    </asset>
    <asset name="Freezer 2" desc="Generic Freezer">
      <tag id="00000098" taggroupid="HUMRCK"/>
    </asset>
    <asset name="Freezer" desc="Generic Freezer">
      <tag id="00000018" taggroupid="TMPRCK"/>
    </asset>
    <asset name="Smoke Alarm" desc="Generic Smoke Alarm">
      <tag id="00000034" taggroupid="RFCDRY"/>
    </asset>
    <asset name="Door" desc="East Entrance">
      <tag id="00000104" taggroupid="RFCDOR"/>
    </asset>
  </assets>
  <zones>
    <zone id="064" name="Engineering" roomlocatorid="064"/>
    <zone id="002" name="Finance" roomlocatorid="101"/>
  </zones>
  <taggroups readerfamily="M">
    <taggroup id="MTGPLV" treatcode="04E" family="RFCode"/>
    <taggroup id="HUMRCK" treatcode="04F" family="RFCode"/>
    <taggroup id="RFCDRY" treatcode="04I" family="RFCode"/>
    <taggroup id="TMPRCK" treatcode="04D" family="RFCode"/>
    <taggroup id="RFCDOR" treatcode="04C" family="RFCode"/>
    <taggroup id="RFCLOC" treatcode="04A" family="RFCode"/>
  </taggroups>
</mobiletrak>
```



It is very important to insert the correct Tag Group IDs and Treatment Codes in this configuration file. The group ID is printed on the label of a tag (Figure 16).

Figure 16 Group ID, Tag ID, and Treatment Code Location



All RF Code tags are defined as being members of a specific group, and have a unique tag ID number within that group. When an RF Code reader is configured, it can be supplied with up to 8 group code IDs and a corresponding treatment code for each group code. The treatment code instructs the reader how to interpret the payload data for each tag event within that group code. RF Code tags are smart and have the ability to transmit various types of data within its radio frequency beacon such as indicators for motion, panic, tamper, infrared location, and low battery.

The following is a list of RF Code Group Codes and their corresponding tag Treatment Codes. Most RF Code tags utilize Treatment Code 02 or 04.

Treatment Code 02:

- TRTTWO
- INTJDS
- RFCMII

Treatment Code 04:

- RFCLOC
- AHSAAA
- RFCSEC
- LOCATE
- RFCBDG
- TMPRCK
- RFCDAA
- IMHERE
- RFCRCK
- HUMRCK
- RCKDRY
- MTGPLV
- RCKDOR

The list above is a compilation of the most current codes at the time of publication, however, a support page with the most updated list of group/treatment codes is available to help you determine your specific Group Code and Treatment Code:

<http://www.rfcode.com/codes>

Contact RF Code support if you have questions about the usage of group codes and treatment codes.

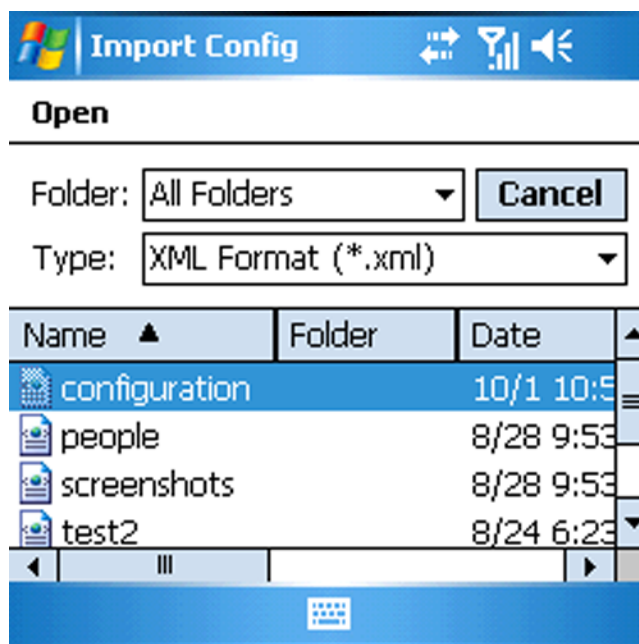
512.439.2200 (main), 877.969.2828 (toll-free), support@rfcode.com, or <http://www.rfcode.com/support>



Once the XML configuration file has been generated, the file must be copied onto your handheld device's **My Documents** folder. This can be performed using the Microsoft ActiveSync (XP users) or the Microsoft Windows Mobile Device Center (Vista users) to browse to the documents folder and placing the configuration XML file in this folder. Only XML files in the My Documents folder are visible by the import configuration option.

To Import a configuration, tap on **Menu>Import Configuration>Import>Import From File** and locate the XML configuration file that you have just created (Figure 17).

Figure 17 Import Configuration File

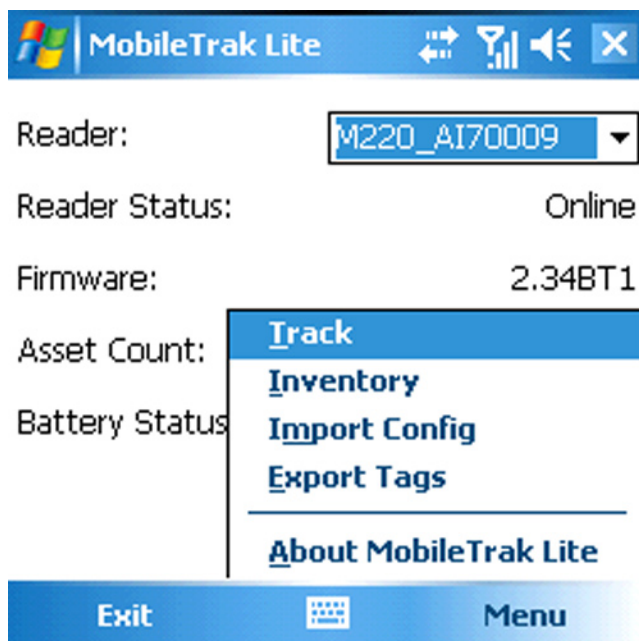


You will receive a message that your configuration file has been imported successfully, tap **Close** to continue.

Track

This option locates tagged assets that have been set up using a saved configuration that has been imported. This feature can be accessed by tapping on **Menu>Track** (Figure 18).

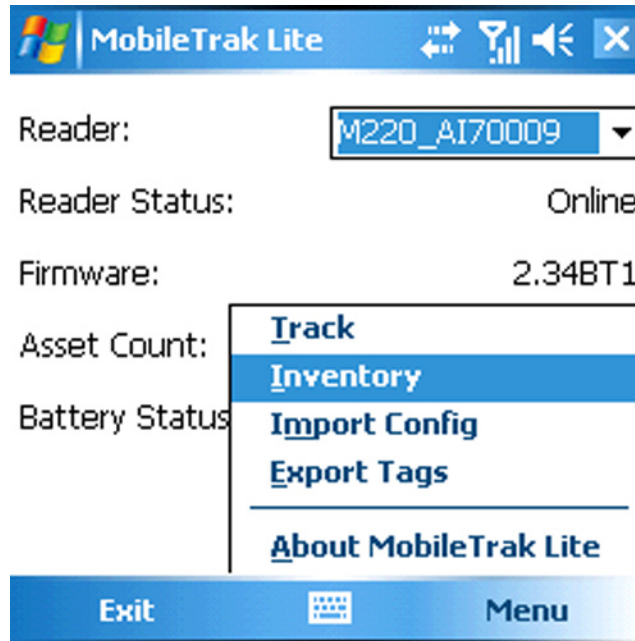
Figure 18 Track Assets



Inventory

This option will locate any assets that have been tagged that are in the range of the reader you have selected for the first 25 tags the RF Code reader discovers. This is useful when you do not know in advance what tags are located in a specific area. This feature can be accessed by tapping on **Menu >Inventory** (Figure 19).

Figure 19 Inventory Assets



When inventorying assets you can choose to delete a tag. This will reduce the number of tags discovered by one allowing the application to discover new tags in inventory mode. Deleted tags are not rediscovered unless the application is restarted.

When viewing assets with either the Track or Inventory options, each found tag is identified by its TagID and a signal strength indicator that visually denotes the proximity of the tag. Generally, stronger signals indicate the tag is closer to you and a weak signal means the tag is farther away. Also, various state indicator icons may appear with an asset tag as shown in Figure 20. These icons indicate the following:







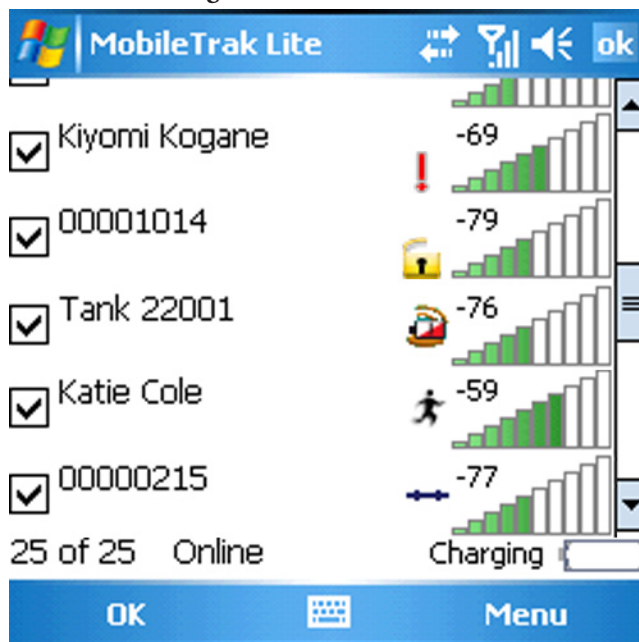
-  Motion icon indicates that asset is moving or being relocated.
-  Tamper icon indicates that tag has been removed from asset.
-  Panic icon indicates that panic button has been activated on tag.
-  Low battery icon indicates that the tag's battery is low and should be replaced.
-  Dry contact icons indicate the current dry contact tag sensor is either open or closed.
-  Sensor low battery icon indicates that tag's sensor battery is low and should be replaced.

Figure 20 Indicator Icons



Export Tags

This option allows you to save found tag data as a configuration which can be exported as an XML file. To export a configuration, tap on **Menu > Export Tags**.



Note Make sure that the reader has been stopped or the configuration format that you wish to export may change because the reader will continue to read the tag beacons and may alter your configuration.

An email prompt will appear (Figure 21). Enter an email address to send the file to.

The export data includes found and not found tag data. When the “Track Assets” mode is used to search for tags, the export command will include results for all assets defined in the configuration regardless if the reader received a beacon from a specified tag. In the “Inventory Assets” mode, the results will only be from tags detected by the reader.

Figure 21 Export Tag Data

The screenshot shows the MobileTrak Lite interface for the 'Export Tag Data' screen. At the top, there's a blue header bar with the Windows logo, the text 'MobileTrak Lite', and icons for signal strength, volume, and an 'ok' button. Below the header, the text 'E-mail Address:' is displayed. Below this, there's a text input field containing the email address 'email@rfcode.com'. At the bottom, there are three buttons: 'Cancel', a keyboard icon, and 'Send'.



TIP You can use the new found inventory as a new configuration to import in MobileTrak Lite..

Edit Configuration

This option allows you to compose or edit a configuration. To access this option tap on **Menu > Edit Configuration**.

The Edit Configuration options will appear (Figure 22).

Figure 22 Edit Configuration Screen - Group Codes Tab



There are three options within the Edit Configuration task: Group Codes, Zones and Assets. Within the Group Codes tab, up to 8 different group codes can be entered. To enter a group code, tap **Add** and a screen appears to input the Group and Treatment Code (please refer to the [Import Configuration](#) section of this document for a description of the use of Group and Treatment codes). Tap **OK**. The new Group Code will now appear in the Group Codes list. To delete a Group Code, highlight the Group Code in the list and tap **Delete**.

To enter a Zone, select the Zones tab and tap **Add**. To enter a zone, tap **Add** and a screen appears to input the Zone and the IR Locator ID that will be associated with that Zone (Please refer to the [A750 IR Locator User Manual](#) for more information about using IR Locator IDs). Enter the desired Zone Name and IR Locator ID and tap **OK**. The new Zone will now appear in the Zones list. To delete a Zone, highlight the Zone in the list and tap **Delete**.

To enter an asset, select the Assets tab and tap **Add**. Enter the Asset Name, Description, Tag Id and select a Group Id and tap **OK**. The new Asset will now appear in the Assets list. To delete an Asset, highlight the Asset in the list and tap **Delete**.

Track/Inventory Options

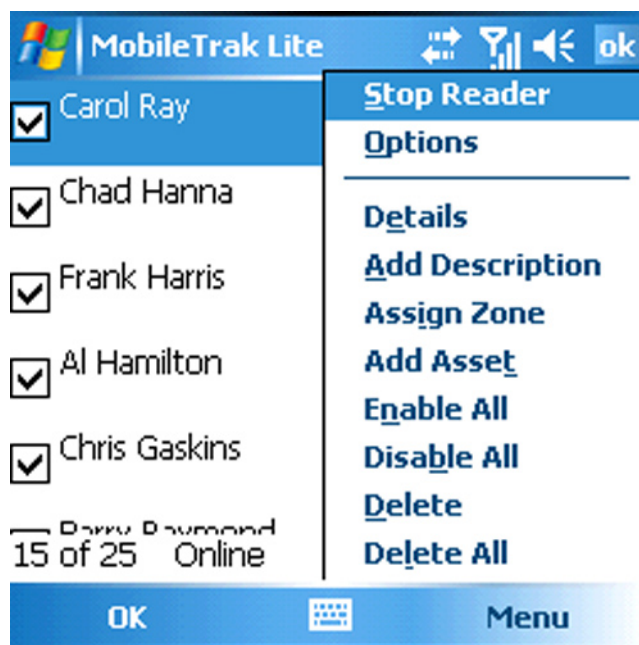
When using MobileTrak Lite in either Track or Inventory mode, there are several options available to you to customize configurations and data reported about tagged assets. These options are explained in detail below.

Stop Reader

This option is used to stop the reader that you are using from gathering information about the assets that you have tagged. This feature would be used once you have located the tagged asset(s) that you are looking for and want to export the related information.

To Stop a Reader, make sure the reader is in either Track or Inventory mode, tap on **Menu > Stop Reader** (Figure 23).

Figure 23 Stop Reader



Once you have stopped the Reader, you must tap **OK** to return to the Main Menu Options where you can “Export Tags” and email the new configuration file.

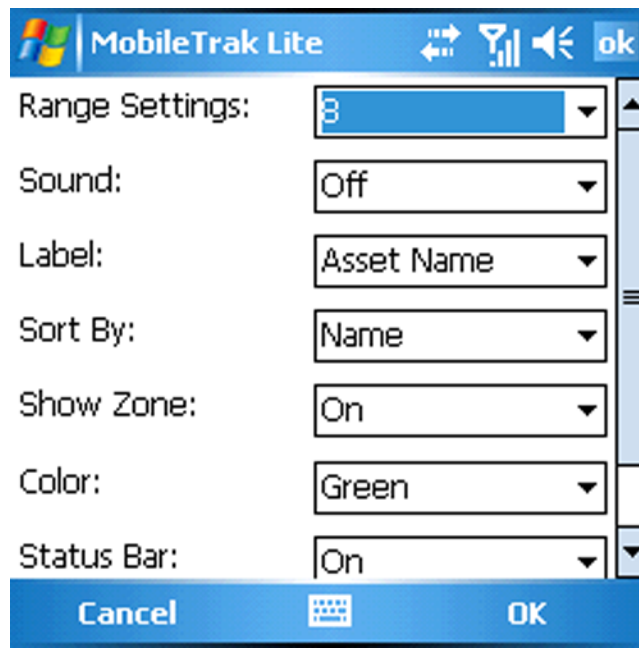
Options

This feature allows you to customize global aspects of the MobileTrak Lite software (Figure 24). These aspects are:

- **Range Settings:** This option allows you to change the read range of the reader that you are connected to. The range has various settings, 1 through 8 with 1 being the minimum read range (less than 10 meters) and 8 being the maximum read range (70-100 meters, depending on deployment conditions).
- **Sound:** The sound can be set to emit on a beacon from the tag, on an alert from the tag, or can be turned off.
- **Label:** This option allows you to change the label of the tagged asset to either its tag ID or its asset name.
- **Sort By:** This option allows you to sort the tagged assets by zone, time, signal strength, or by motion, tamper, panic or low battery alerts. You can also utilize the drop down list on the main screen of the software to access the Sort By feature.
- **Show Zone:** This option allows you to display or not display the assigned zone for tagged assets.
- **Color:** This option allows you to change the color that displays the signal strength of the beacon from the tagged asset to either a red, blue, or green color.
- **Status Bar:** This option allows you to display or not display the status bar.
- **Vibrate:** The vibrate feature of the handheld device can be set to happen on a beacon from the tag, on an alert from the tag, or can be turned off.
- **Units:** This option allows you to display the units of temperature measurement to display as either Celsius or Fahrenheit.

The options feature is accessed by entering either Track or Inventory Mode and tapping on **Menu > Options**.

Figure 24 Apply Global Options



The screenshot shows the 'MobileTrak Lite' application interface for applying global options. The title bar includes the application name, a signal strength icon, a filter icon, a volume icon, and an 'ok' button. The main area contains several settings, each with a label and a dropdown menu:

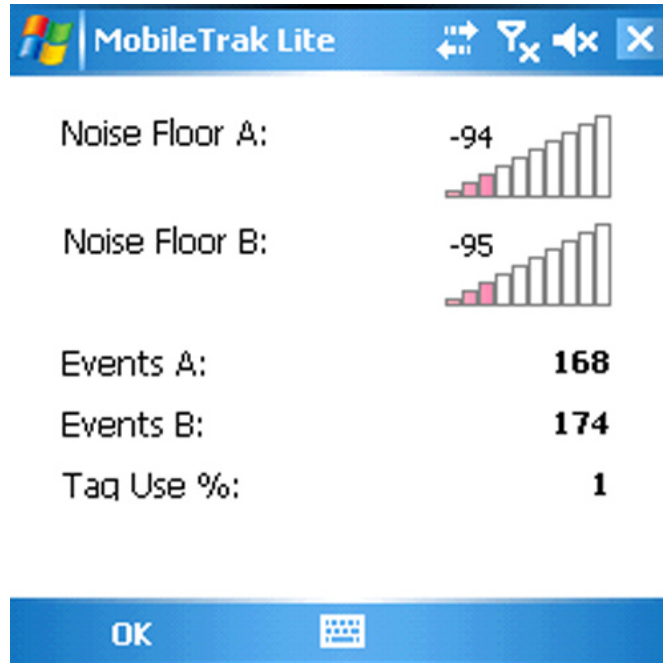
- Range Settings: 8
- Sound: Off
- Label: Asset Name
- Sort By: Name
- Show Zone: On
- Color: Green
- Status Bar: On

At the bottom, there are three buttons: 'Cancel', a keyboard icon, and 'OK'.

Diagnostic Mode

This feature indicates the noise level present within the immediate vicinity of the M220 Mobile Reader that the user has connected to. This feature can be accessed by tapping **Menu > Diagnostics** (Figure 25).

Figure 25 Diagnostic Screen



Details

This feature allows you to obtain specific details for a selected tagged asset. It is accessed by entering either Track or Inventory Mode, highlighting a particular tagged asset and taping on **Menu> Details** from the menu as shown in Figure 26.

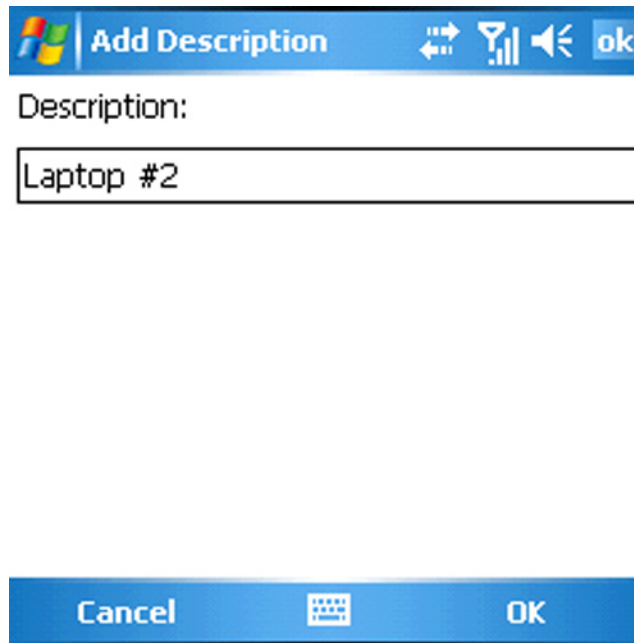
Figure 26 Tagged Asset Details



Add Description

This feature allows you to add or change a descriptions of a selected tagged asset. This is performed by, after entering Track or Inventory Mode and selecting the asset that you would like to add a description to, tap on **Menu > Add Description** and type in the description that you desire the tagged asset to have as shown in [Figure 27](#).


Figure 27 Add Description for Tagged Asset



Add Description

Description:

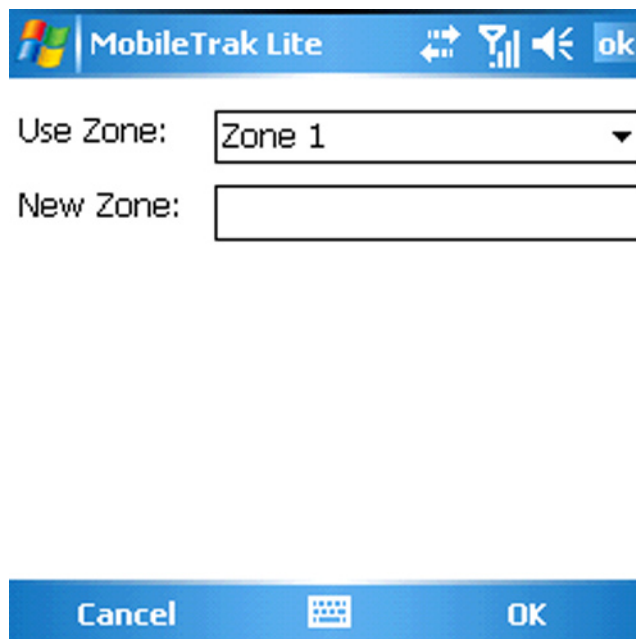
Laptop #2

Cancel  OK

Assign Zone

This feature allows you to assign a zone to a tagged asset. With this feature you have the option to assign a previously established zone or to create a new one. This is performed by, after entering either Tag or Inventory Mode and selecting the asset that you would like to add a description to, tap on **Menu > Assign Zone** from the menu as shown in [Figure 28](#).


Figure 28 Assign Zone to Selected Tagged Asset



MobileTrak Lite

Use Zone: Zone 1 ▼

New Zone:

Cancel  OK

Add Asset

This option is used to add the identification information for an asset that you have tagged so that asset can be monitored and/or located with the software.

To Add an Asset, after entering either Track or Inventory Mode, tap **Menu > Add Asset**. Input the asset name, tag ID and group ID of the tag that you are going to add and tap **OK** to continue (Figure 29). The new asset will now appear in the main screen.

Figure 29 Add Asset

The screenshot shows a mobile application dialog titled "Add Asset". The dialog contains three input fields: "Asset Name" (text: "New Asset #1"), "Tag Id" (text: "00000021"), and "Group Ids" (dropdown menu: "SHINER"). The dialog has a blue header bar with the title and navigation icons, and a blue footer bar with "Cancel", a keyboard icon, and "OK" buttons.

Enable All

This option allows you to “turn on” all of the tagged assets that have been specified in the configuration file for the Track mode and “turn on” all of the found tagged assets in the Inventory Mode.

To Enable All tagged assets, after entering Track or Inventory Mode, tap **Menu>Enable All**.

Disable All

This option allows you to “turn off” all of the tagged assets that have been specified in the configuration file for the Track mode and “turn off” all of the found tagged assets in the Inventory Mode.

To Disable All tagged assets, after entering Track or Inventory Mode, tap **Menu>Disable All**.

Delete

This feature allows you to delete a selected tagged asset. It is performed by selecting the asset you would like to delete after you have entered Track or Inventory Mode, and tapping on **Menu>Delete**.

Delete All

This option allows you to delete all of the tagged assets that have been specified in the configuration file for the Track mode or all of the found tagged assets in the Inventory Mode.

To Delete All tagged assets, after entering the Track or Inventory Mode, tap **Menu>Delete All**.

Limited Standard Warranty Terms

RF Code warrants its products to be free from defects in materials and workmanship for a period of 1 year (12 months) for hardware and software from the date of purchase from RF Code. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser (end-user) and is not transferable.

Standard Warranty Limitations

Except as provided herein, the entire liability of RF Code and its suppliers under this limited warranty will be that RF Code will use reasonable efforts to repair or replace, without charge, all defective Products returned to RF Code by Customer, all as more particularly described in the End User Warranty. Except for the express warranties STATED HEREIN, RF Code makes no other representations or warranties and RF Code hereby disclaims, all other warranties, express, implied, statutory, or otherwise, including without limitation, any warranty of merchantability, non-infringement of third party intellectual property rights, fitness for a particular purpose, performance, satisfactory quality, or arising from a course of dealing, usage or trade practice.

Obtaining Service & Support

For in-warranty service, customers have several options. Customers having difficulty with RF Code products should attempt to solve those problems through RF Code's Technical Support Problem Escalation Process:

First, contact the RF Code representative or other distributor from whom the RF Code product was purchased for information on how to obtain local support.

Second, contact the RF Code Customer Support via e-mail.

Third, contact the RF Code Customer Support via the Support Line.

For product returns, the support engineer will give you a return material authorization (RMA) number. No returns will be accepted without an RMA number. If the warranty expired, there is a charge for repair or replacement per RF Code's out-of-warranty policy. For full details of the RF Code RMA policy, please review the "RF Code Warranty, RMA, and Extended Warranty Policy" document.

RF Code Customer Support

RF Code Customer Support gives entitled customers and partners the ability to contact RF Code about installation and usage-related questions as well as make defect inquiries about eligible products that are covered under RF Code warranty agreements. A team of technical specialists can be contacted electronically or via phone.

The Support Line is available to provide General Support during normal business hours: Monday through Friday, 8:00am to 5:00pm Central time, excluding national holidays.

E-mail: support@rfcode.com

Support form: <http://www.rfcode.com>

Voice: 512.439.2244 or toll-free at 866.830.4578