

ASSET TRACKER LITE

Version 2.00

User Guide
for Android TM



ZEBRA

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About This Guide

Introduction

This guide provides information about installing, using, and configuring the Asset Tracker Lite Version 2.00 application.

Asset Tracker Lite is an introductory asset tracking application designed for small business. It is a simple, license free application for Zebra Android mobile computers and is the first step in improving asset visibility. Employees simply walk through a facility and scan the barcodes on the assets. It helps increase the value of Zebra mobile computers.

Asset tracking is fast, easy, and accurate, and so cost-effective you can take asset inventory as often as business needs dictate.

Asset Tracker Lite improves asset visibility, ensuring that workers can locate the assets they need to get the job done. It also improves worker productivity, asset utilization and asset value.

Chapter Descriptions

Topics covered in this guide are as follows:

- [Installation](#) provides information on installing the Asset Tracker application.
- [Operation](#) provides information on using the Asset Tracker Lite application.
- [Uploading Data](#) provides information on uploading data to a server.
- [Modifying the Database](#) provides information on modifying data in the Asset Tracker Lite database.
- [Configuration](#) provides information on configuring the Asset Tracker Lite application.

Application Version Number

To view the current application version number, touch  > **About**.

License Agreement

To view the application End User License Agreement touch  > **License Agreement**.

Notational Conventions

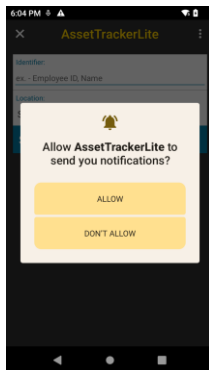
The following conventions are used in this document:

- **Bold** text is used to highlight the following:
 - Dialog box, window and screen names
 - Drop-down list and list box names
 - Check box and radio button names.
 - Icons on a screen
 - Key names on a keypad
 - Button names on a screen.
- Bullets (•) indicate:
 - Action items
 - Lists of alternatives
 - Lists of required steps that are not necessarily sequential.
- Sequential lists (e.g., those that describe step-by-step procedures) appear as numbered lists.

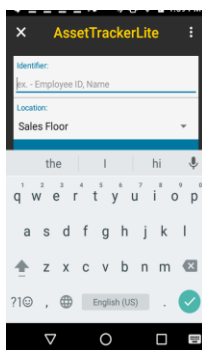
Installation

1. Connect the Device to PC via USB.
2. Open a command prompt and type ADB devices and device serial number should appear.
3. Navigate to the APK location in command prompt and execute the command “adb install AssetTrackerLite-v2.0.apk”
4. After installation, open StageNow app on the device.
5. Scan the barcodes in AllowOEMInfo.pdf. this is needed to app to read the device serial number(This step only applies to Zebra devices).
6. Launch the application.

Figure 5 Allow Message



7. Touch **Allow** to allow **Asset Tracker Lite** to send notifications. This is required for the application functionality.
8. Without this permission, **Asset Tracker Lite** will not be able to send notifications.
9. The Asset Tracker Lite application opens.



Operation

This section provides information on using the Asset Tracker Lite application.



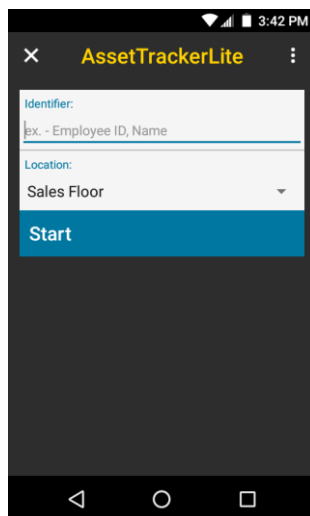
NOTE: After scanning 100 items, a dialog box appears recommending that the user save the session. The user should save the session to avoid possible loss of data if the device might lose power. When the dialog box appears, touch **OK**, and save the session if required.

Tracking an Asset

To begin tracking assets:

1. Swipe up from the bottom of the home screen and touch

Figure 9 Asset Tracker Lite Home Screen



2. In the **Identifier** text box, enter employee name or ID.
3. From the **Location** drop-down, select an area.
4. Touch **Start**. The **Inventory** screen appears.

Figure 10 Inventory Screen

Adding an Item

To add an item:



IMPORTANT

If the user enters 0 in the **Units Per Scan** text box, the scanned item is not added to the **Scanned Assets** section.

If the Units Per Scan text box is empty, a message appears notifying the user to enter a value in the text box.

1. Point the device at the barcode and press the scan button. The device captures the data and populates the Barcode, Value, and Description fields.
2. If the item is not in the database, the Alert! New Item Found dialog box appears. See Adding a Item to the Database on page 8.
3. In the Units Per Scan text box, enter the quantity of the item. When the user scans the next item, the item is added to the Scanned Assets section and the Total Value and Total Units fields are incremented.
4. Repeat for all items.
5. Touch **Stop** when finished with the session count.
6. Touch **Yes** to save the data.
7. Touch **OK**.

Removing an Item

To remove an item that was previously scanned:

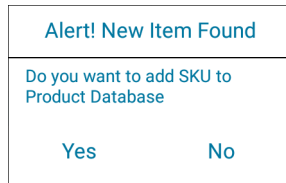
1. Point the device at the barcode and press the scan button. The device captures the data and populates the **Barcode**, **Value**, and **Description** fields.
2. In the **Units Per Scan** text box, enter a negative number for the item to remove. When the user scans the next item, the item is added to the **Scanned Assets** section with a negative number in the **Price** and **Qty** fields and the **Total Value** and **Total Units** fields are decremented.

Adding an Item to the Database

If the user scans an item that is not in the database, the user can add it to the database:

1. When the user scans a barcode and the item is not in the database, an alert dialog box appears.

Figure 11 Alert Dialog Box



2. Touch **Yes** to add the item to the database or **No** to skip the item.
3. In the **Value** field, enter the value of the item.
4. In the **Description** field, enter a description for the item.
5. Touch ▾ to hide the on-screen keyboard.
6. Touch **Save**.
7. Touch ← .

Uploading Data

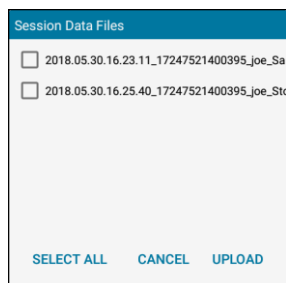


IMPORTANT: Ensure the FTPS connection information is configured prior to uploading data.

To upload the session data to an FTPS server:

1. Touch **:** > **Upload Data**. The **Session Data Files** dialog box appears.

Figure 12 Session Data Files Dialog Box



2. Select individual files to upload or touch **SELECT ALL** to select all the files.
3. Touch **Upload**.

Upon successful upload, an Upload Complete message appears. The application renames the files with a prefix, (**uploaded**).


If the upload is unsuccessful, an error message appears. the file name is unchanged and is available in the Session Data Files dialog box for another upload attempt. Contact the system administrator.

Note: FTPS uploading is tested using Wing FTP server.

Modifying the Database




Users can add or modify an item in the product database on the device.



IMPORTANT: Anytime during the process, touch  to cancel the modifying process.




Adding an Item to the Database

To add a new item to the database:

1. Touch  > **Add/Modify SKU**.
2. Scan a barcode or touch the **Barcode** field to manually enter an item number.
3. In the **Value** field, enter the value of the item.
4. In the **Description** field, enter a description for the item.
5. Touch  to hide the on-screen keyboard.
6. Touch **Save**.
7. Repeat for all additional items.
8. After entering all the new SKUs, touch .




Modifying an Item in the Database

To modify an existing item in the database:

1. Touch  > **Add/Modify SKU**.
2. Scan a barcode or touch the **Barcode** field to manually enter an item number.
3. In the **Value** field, change the value of the item.
4. In the **Description** field, change the description for the item.
5. Touch  to hide the on-screen keyboard.
6. Touch **Save**.
7. After modifying item, touch .

Deleting an Item in the Database

To delete an existing item in the database:

1. Touch  > **Add/Modify SKU**.
2. Scan a barcode or touch the **Barcode** field to manually enter an item number.
3. Touch  to hide the on-screen keyboard, if required.
4. Touch **Delete**.
5. After deleting item, touch .

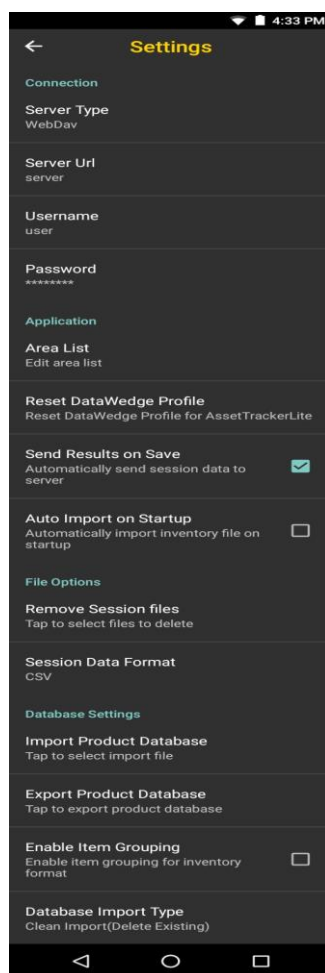
Configuration

Settings

Use the Settings to configure the Asset Tracker Lite application. The settings can also be configured using an XML.

1. To access the Settings screen, touch **:** > **Settings**.

Figure 13 Asset Tracker Lite Settings



- **Connection** - Set-up a connection to a server if sending session data. Enter a name to label the server. Enter the server address, either IP or DNS name. Choose to automatically send results to this server. Enter Protocol, User, and Password.
- **Server Type** - select the server type.
- **Server URL** - address of the FTPS server.
- **Application** - Control how the application behaves.
- **Area List** - Use to create a list of areas. See [Adding Area List Item on page 21](#).
- **Reset DataWedge Profile** - Reset the AssetTrackerLite profile.
- **Send Results on Save** - Enable to send data to the server as soon as it is saved.
- **Auto Import on Startup** - Enable to automatically import inventory file on startup.
- **File Options** - Use to import and export data files and set data file format.
- **Remove Session files** - Remove session files from the device.
- **Session Data Format** - Select session file format generated upon saving. Options: **XML** or **CSV**.
- **Database Settings**
 - **Import Product Database** - Import a database file.
 - **Export Product Database** - Export a database file.
 - **Enable Item Grouping** - When Grouping is enabled, Asset Tracker Lite combines the number of items per SKU into a single row in the output inventory file. When Grouping is disabled, the output file may contain multiple entries with the same SKU.
 - **Database Import Type** - Select import option for clean import or update import.

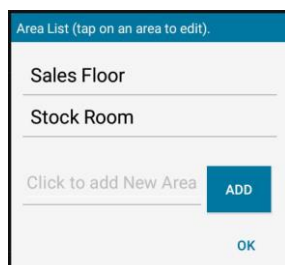
Application Settings


Adding Area List Item

To add an area name to the Area List:

1. Touch **⋮** > **Settings**.
2. In the **Application** section, touch **Area List**.

Figure 14 Area List Dialog Box



1. In the **Click to add New Area** field, enter a new area name.
2. Touch **Add**.
3. Touch **OK**.
4. Touch .

Deleting Area List Item

To remove an item to the Area List:


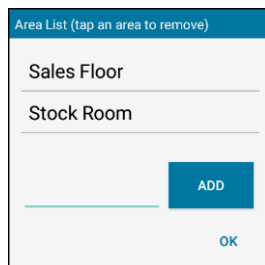

1. Touch  > **Settings**.
2. In the **Application** section, touch **Area List**.

Figure 15 Area List Dialog Box




3. Touch an area name to delete.
4. Using the keyboard, delete the name.
5. Touch **OK**.
6. Touch .

Resetting the DataWedge Profile

The Asset Tracker Lite app creates a DataWedge AssetTrackerLite profile the first time the app launches. A user can modify the profile but if the changes cause the app to stop working, the user can restore the DataWedge profile to the default configuration.

To reset the DataWedge profile:

1. Touch  > **Settings**.
2. In the **Application** section, touch **Reset DataWedge profile**.
The DataWedge AssetTrackerLite profile is reset.

File Options

Removing Session Files

To remove session files from the device:

1. Touch **:** > **Settings**.
2. In the **File Options** section, touch **Remove Session files**. The **Database Files Available** dialog box appears.
3. Select individual files to remove or touch **SELECT ALL** to select all the files.
4. Touch **DELETE**. The **Deleting** dialog box appears.
5. Touch **YES** to delete the selected files or **NO** to cancel the delete operation.

Database Settings

Importing a Product Database File



IMPORTANT

Asset Tracker Lite imports both CSV and XML file types.

The Product Database file must have the key "ProductDatabase" in the name.

To import a product database file onto the device:

1. Connect the USB-C Cable to the device.
2. Open a command prompt and execute the command "adb devices". and device serial number will appear.
3. Navigate to the folder location for ProductDatabase.csv on command prompt.
4. Enable ADB debugging on the device.
5. Execute the command "adb push ProductDatabase.csv /data/tmp/public/AssetTrackerLite"
6. The database file will be copied to the device.
7. Touch **:** > **Settings**.
8. In the **Database Settings** section, touch **Import Product Database**. The **File List** dialog box appears.
9. Select a file and then touch **OK**.
10. The device loads the new database file.

Exporting a Product Database File

To export a product database file:

1. Touch **⋮** > **Settings**.
2. In the **Database Settings** section, touch **Export Product Database**.
The device saves the database file to: `/data/tmp/public/AssetTrackerLite/OutputFiles`.
The exported filename format: `YYYY.MM.DD.HH.MM.SS.ProductDataBase.csv` (or xml).
Where:
 - YYYY – Year
 - MM – Month
 - HH - Hour
 - MM - Minutes
 - SS - Seconds
 - ProductDataBase - Database name.
3. Connect the USB-C Cable to the device.
4. Open a command prompt and execute “adb devices” and it will display device serial number.
5. Navigate to the folder location on host computer in cmd you want to export the database file.
6. Execute the command “adb pull /data/tmp/public/AssetTrackerLite/OutputFiles/*.csv”
7. It will copy the *.csv file from device to the host computer.

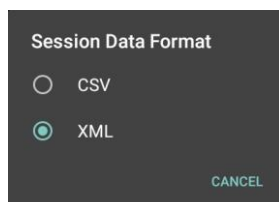
Changing the File Format

The product database file can be in Comma Separated Values (CSV) (default) or Extensible Markup Language (XML) format.

To change the file format:

1. Touch **⋮** > **Settings**.
2. In the **File Options** section, touch **Session Data Format**.

Figure 18 Session Data Format



3. Touch either **CSV** or **XML**.

Settings XML Files

A system administrator can change the Asset Tracker Lite setting using an XML file instead on the application settings screen.

The XML file example is shown below. After making.

Copy Settings XML File from Device

To copy the Settings file from the device:

1. Connect the USB-C Cable to the device.
2. Open a cmd and execute “adb devices” and it should display device serial number.
3. Navigate to the host computer folder location on cmd.
4. Execute the command “adb pull /data/tmp/public/AssetTrackerLite/ settings.xml”
5. The settings.xml file will be copied from device to the host computer.

Editing the XML Settings File

Note : Due to security reasons FTPS Server username/password cannot be configured through XML file.

To edit the settings file, open the XML file in a text editor.

Change any of the options within the <option> and </option> brackets.

Save the xml file.

```
<?xml version="1.0" encoding="utf-8"?>
<Settings>
  <Connection>
    <Server>server</Server>
    <AutomaticSendResults>True</AutomaticSendResults>
  </Connection>
  <Application>
    <AreaList>
      <Item>Sales Floor</Item>
      <Item>Stock Room</Item>
    </AreaList>
    <ItemGrouping>False</ItemGrouping>
  </Application>
  <Options>
    <OutputDirectory>/AssetTrackerLite/OutputFiles/</OutputDirectory>
    <SelectedOutput>CSV</SelectedOutput>
    <AllowDBUpdates>True</AllowDBUpdates>
  </Options>
</Settings>
```

- Connection section
 - `<Server> </Server>` - Address of the FTP server.
 - `<AutomaticSendResults> </AutomaticSendResults>` - Send data to the server as soon as it is saved.
 - Options: True (default) or False.
- Application section
 - Area List
 - `<Item> </Item>` - Area Names that appear in the Location identifier. Examples:
 - `<Item>Sales Floor</Item>`
 - `<Item>Stock Room</Item>`
 - `<Item>Warehouse</Item>`
 - `<ItemGrouping> </ItemGrouping>` - Create a Group in database file and increment the scan count when user scans the same product. Options: True or False (default).
- Options section
 - `<OutputDirectory> </OutputDirectory>` - set the location where output files are stored on the device.
 - Caution: do not set the output folder. The application will not write to a restricted partition.
 - `<SelectedOutput> </SelectedOutput>` - set the type of output file. Options: CSV (default) or XML.
 - `<AllowDBUpdates> </AllowDBUpdates>` - Allow user to update database. Options: True (default) or False.

Copy Settings XML File to Device

To copy the Settings file to the device:

1. Connect the USB-C Cable to the device.
2. Open a cmd and execute “adb devices” and it should display device serial number.
3. Navigate to the host computer folder location where settings.xml exist.
4. Execute the command “adb push settings.xml” /data/tmp/public/AssetTrackerLite
5. The settings.xml file will be copied to the device from host computer.
6. The next time the user opens the Open the Asset Tracker Lite application, the new settings are used

CSV File Format

The CSV file format is comma separated data file where each row contains:

- barcode,price,description

```
000001,1.00,candy
000002,2.00,bread
000003,3.00,milk
000004,8.00,paper
000005,25.00,beer
000006,0.00,cup of water
000007,10.00,diaper
000008,4.45,chocolate
000009,12366.67,ink
```

XML File Format

The XML file format is as follows:

```
<?xml version="1.0" encoding="utf-8" ?>
<ZebraRetail>
  <Application exeVersion="1.1" />
  <Device serialNumber="14139523020521" />
  <License key="987654312" />
  <MasterFile location="/Program Files/InventoryApp/MasterFile.sdf" />
  <Login identifier="Stock Worker 1" date="2015-03-24T21:38:04-04:00" />
  <Inventory area="Stock Room" startDate="2015-03-24T21:34:09-04:00"
endDate="2015-03-24T21:38:04-04:00" totalUnits="10001" totalValue="1049.93">
    <Item enteredValue="1234567890123" units="9999" value="999.99" description="Little
Red Wagon" symbology="UPCA"/>
    <Item enteredValue="9876543210987" units="1" value="29.95" description="Big Blue
Wagon" symbology="UPC-A" />
    <Item enteredValue="45678932" units="1" value="19.99" description="Yellow Scooter"
symbology="UPC-A" />
  </Inventory>
</ZebraRetail>
```