# Getting Started Guide

# For

# *EchoPoint SMR-640P-101 MobileReader*

**Savi Technology, Inc.**
**615 Tasman Dr.**
**Sunnyvale, CA 94089**

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# Compliance Notice

## U.S. Regulatory Approvals

### EchoPoint MobileReader SMR-640P-101

#### Federal Communications Commission (FCC) Notice

The Federal Communications Commission has established technical standards regarding radio frequency energy emitted by computer devices. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference with radio/TV reception. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

*Changes or modifications to this equipment that are not expressly approved by Savi Technology could void the warranty and the authority to operate this equipment.*

**Savi Technology is not responsible for radio/TV interference caused by using unauthorized cable or by making unauthorized changes to this equipment.**

*This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*

# International Regulatory Approvals

## EchoPoint MobileReader SMR-640P-101

## Declaration of Conformity

$$CE \quad 0889 \quad \bigodot$$

| English | Hereby, Savi Technology, Inc., declares that this SMR-640P-101 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. |
|---------|------|
| Finnish | Savi Technology, Inc. vakuuttaa täten että SMR-640P-101 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen. |
| Dutch | Hierbij verklaart Savi Technology, Inc.dat het toestel SMR-640P-101 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG |
|  | Bij deze verklaart Savi Technology, Inc. dat deze SMR-640P-101 voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC. |
| French | Par la présente Savi Technology, Inc. déclare que l'appareil SMR-640P-101 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE |
|  | Par la présente, Savi Technology, Inc. déclare que ce SMR-640P-101 est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables |
| Swedish | Härmed intygar Savi Technology, Inc. att denna SMR-640P-101 står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG. |
| Danish | Undertegnede Savi Technology, Inc. erklærer herved, at følgende udstyr SMR-640P-101 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF |
| German | Hiermit erklärt Savi Technology, Inc., dass sich dieser/diese/dieses SMR-640P-101 in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMWi) |
|  | Hiermit erklärt Savi Technology, Inc. die Übereinstimmung des Gerätes SMR-640P-101 mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien) |

| Greek | ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Savi Technology, Inc. ΔΗΛΩΝΕΙ ΟΤΙ SMR-640P-101 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ |
|---|---|
| Italian | Con la presente Savi Technology, Inc. dichiara che questo SMR-640P-101 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE. |
| Spanish | Por medio de la presente Savi Technology, Inc. declara que el SMR-640P-101 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE |
| Portuguese | Savi Technology, Inc. declara que este SMR-640P-101 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE. |

## I. Introduction

The EchoPoint SMR-640P-101 MobileReader is a compact, lightweight, attachment unit that can be used with many off the shelf handheld or notebook computer, providing a simple wireless communication with all EchoPoint 600/640 tag product series.

The SMR-640P-101 MobileReader includes the following items:

- RFID Pod unit with integrated antenna, rechargeable battery and serial cable with standard RS232C, DB-9 connector
- Handstrap mounting clip (optional)
- AC to DC wall adapter (110/220V) for charging internal reader battery

RFID Pod with integrated antenna and rechargeable battery

AC to DC wall adapter

Standard serial cable for communication to handheld computer

Version 0.6
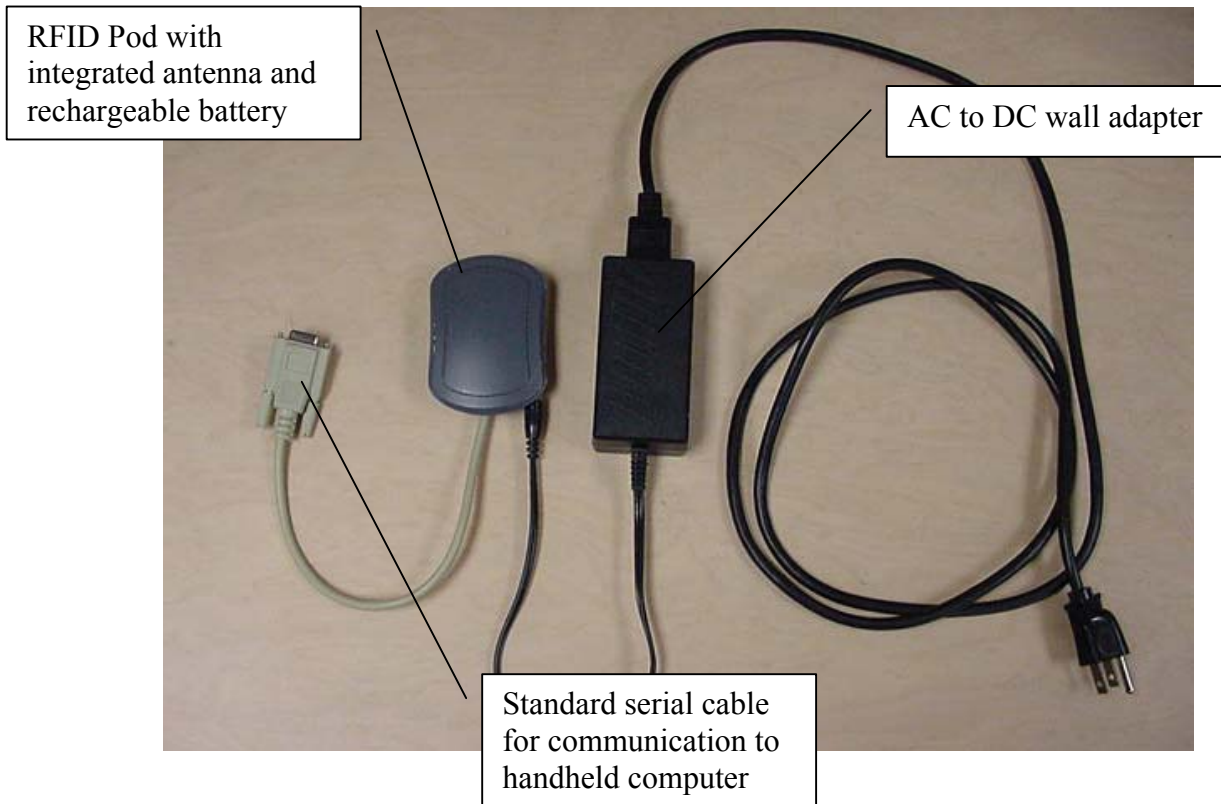
## II. Battery Charging

Before using the SMR-640P-101 MobileReader it is strongly recommended to fully charge the unit's internal battery.

Note that the unit's internal battery is not user replaceable.

To charge the battery use provided AC to DC wall adapter and connect it to the unit's power jack as shown on the following picture.



AC to DC wall adapter plug inserted into the

It is important to use Savi provided adapter to ensure correct battery charging and to avoid overheating of the unit.

Note that there is no visual indication signaling when the RFID Module battery is fully charged therefore it is recommended to connect unit to the handheld computer to observe the current status of the battery charging.

Depending on the remaining battery charge the charging might take up to 1 ½ hours.

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# III. Communication with the PC

The SMR-640P-101 MobileReader can be connected to any computer equipped with standard RS232 interface.

The reader is configured as a DCE device and therefore does not require NULL modem adapter when connected to the PC.
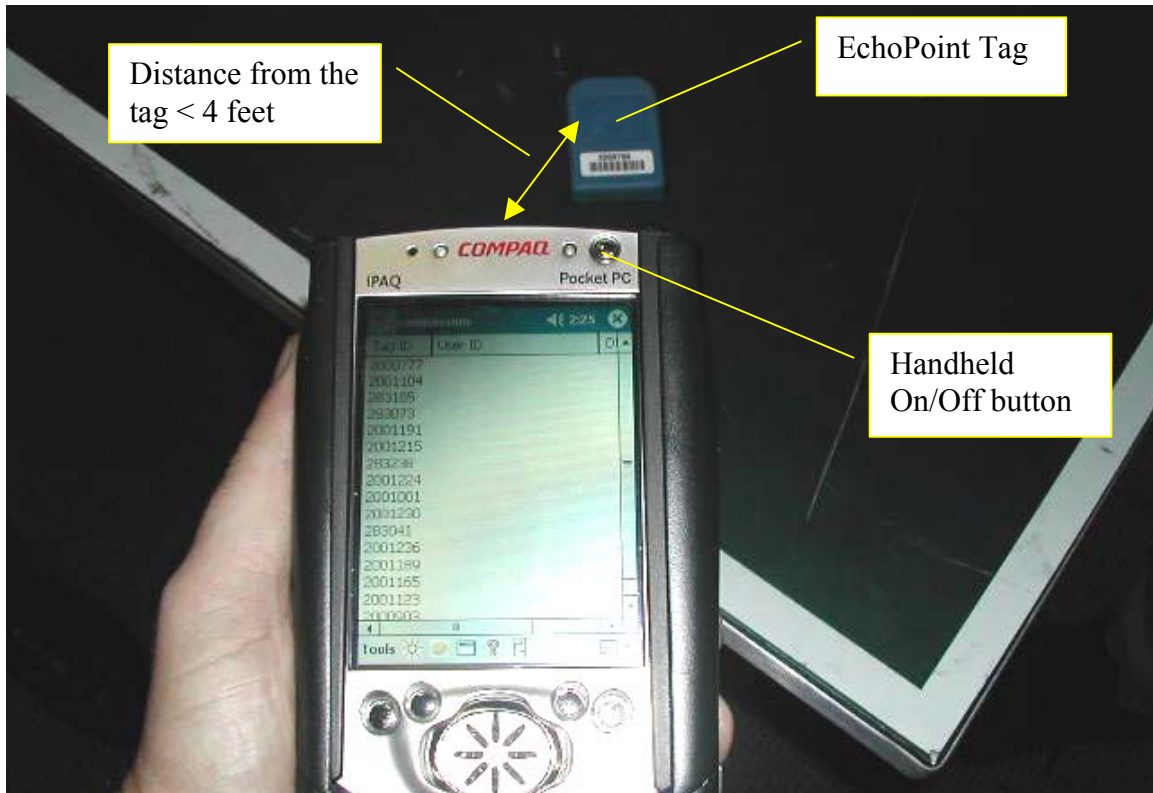


Serial cable with female DB9 connector

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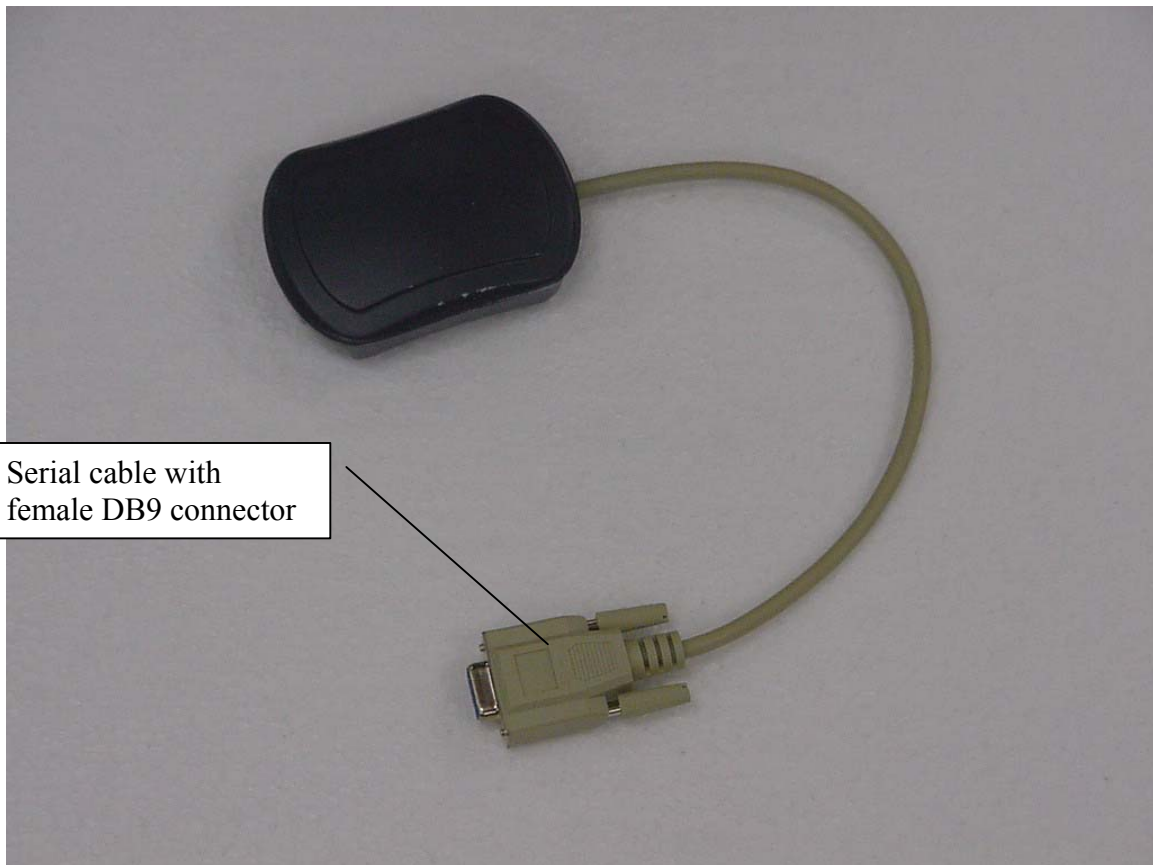
## IV.  Using the RFID SMR-640P MobileReader

The following pictures show examples of connecting and using the reader with off the shelf handheld device.

When using the SMR-640P MobileReader for scanning EchoPoint tag(s) it is recommended to keep hand off of the top unit's cover for best communication range.

PCMCIA slot accepts Type II cards (802.11 radio, Bluetooth, Barcode reader, GPS, GSM, etc.)

Integrated RFID antenna



SMR-640P MobileReader connected to PDA handheld

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Distance from the tag < 4 feet

EchoPoint Tag

Handheld On/Off button
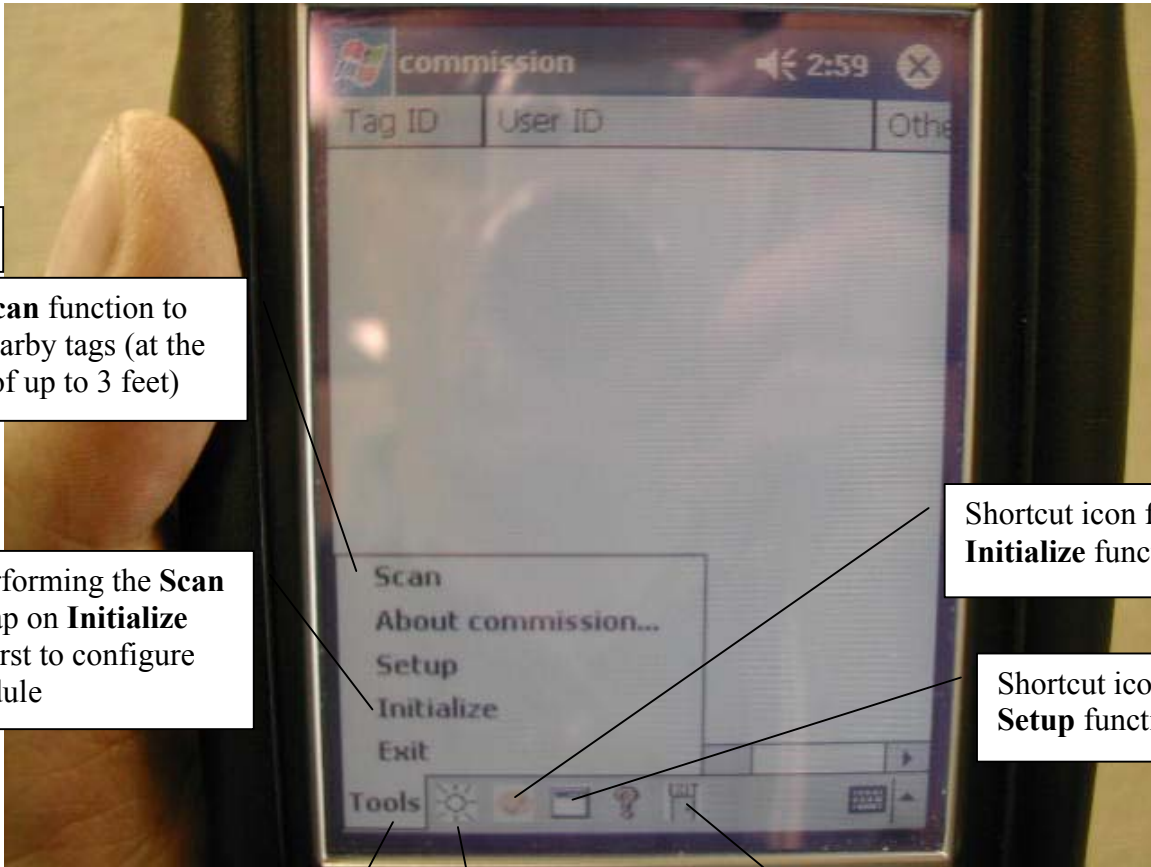
# V. Using the RFID application

A simple RFID application is provided to demonstrate a typical application using the EchoPoint SMR-640P-101 MobileReader.

The following pictures show the basic features and steps on how to scan (collect) tags.

Using the pen tap on the **Start** button

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Task Manager Icon

Under pull down menu select **commission** application
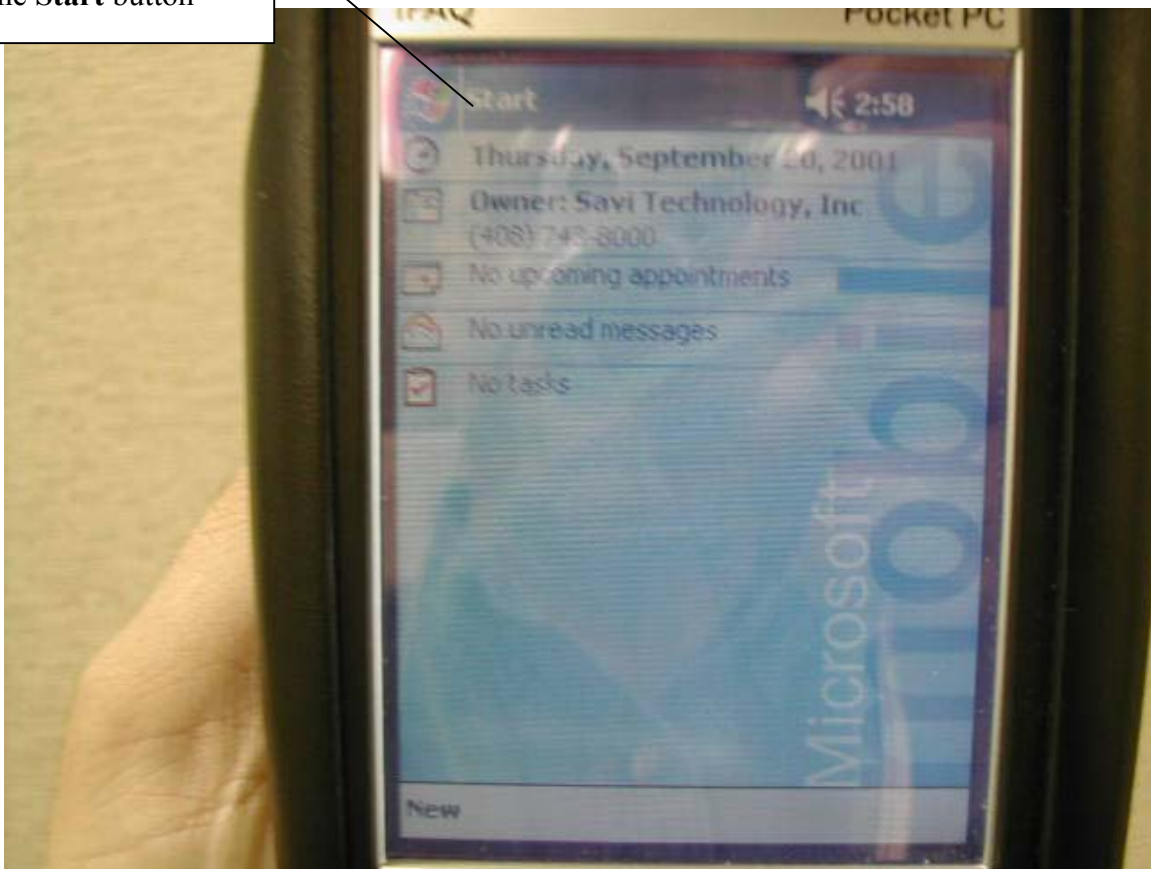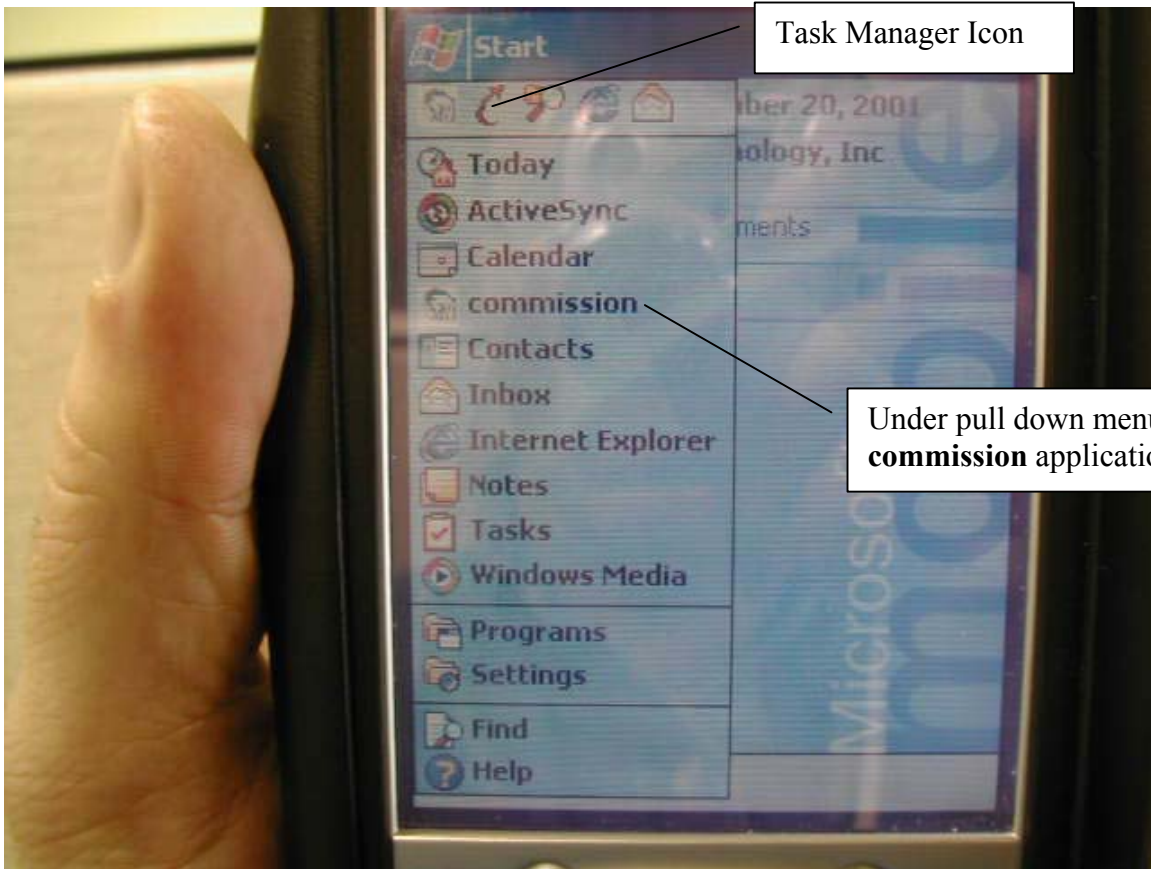
**Step 2**.

Tap on **Scan** function to collect nearby tags (at the distance of up to 3 feet)

**Step 1**.

Before performing the **Scan** function tap on **Initialize** function first to configure RFID module

Shortcut icon for **Initialize** function

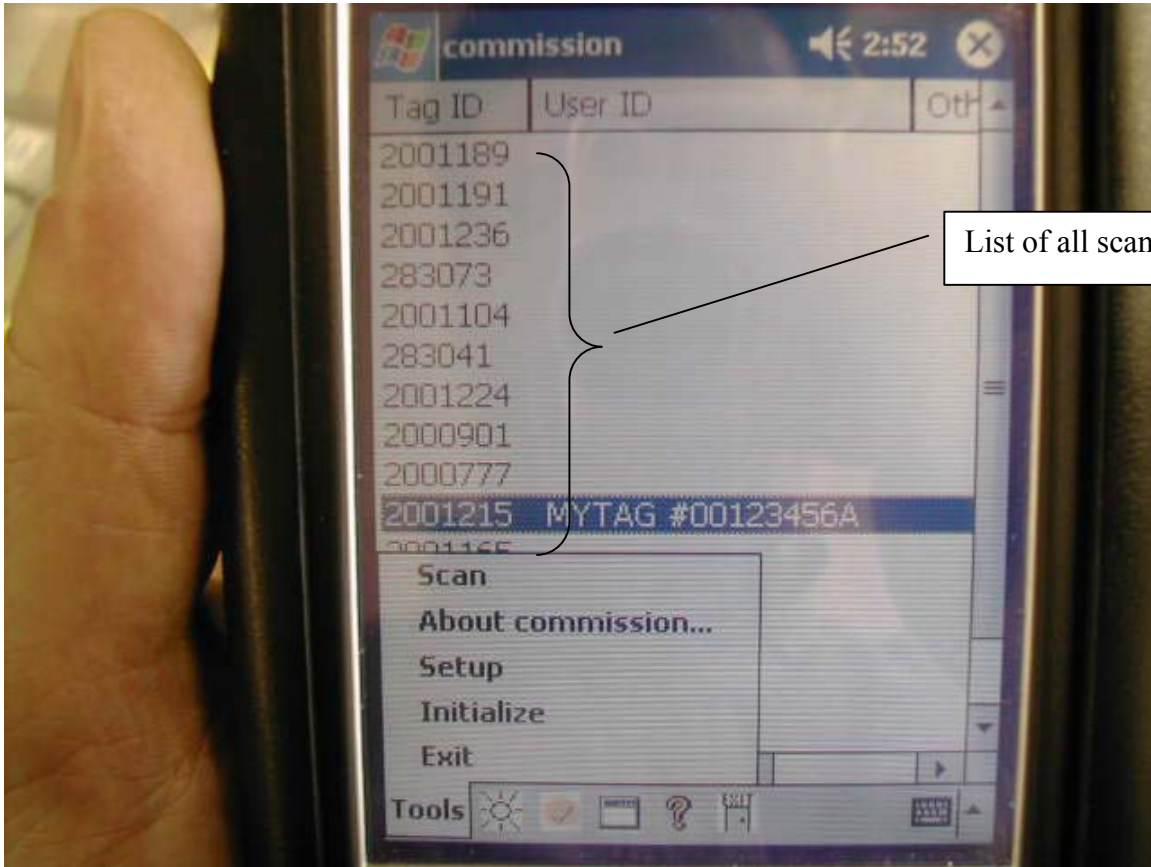Shortcut icon for **Setup** function

Tap on **Tools** and pull up menu will appear

Shortcut icon for **Scan** function

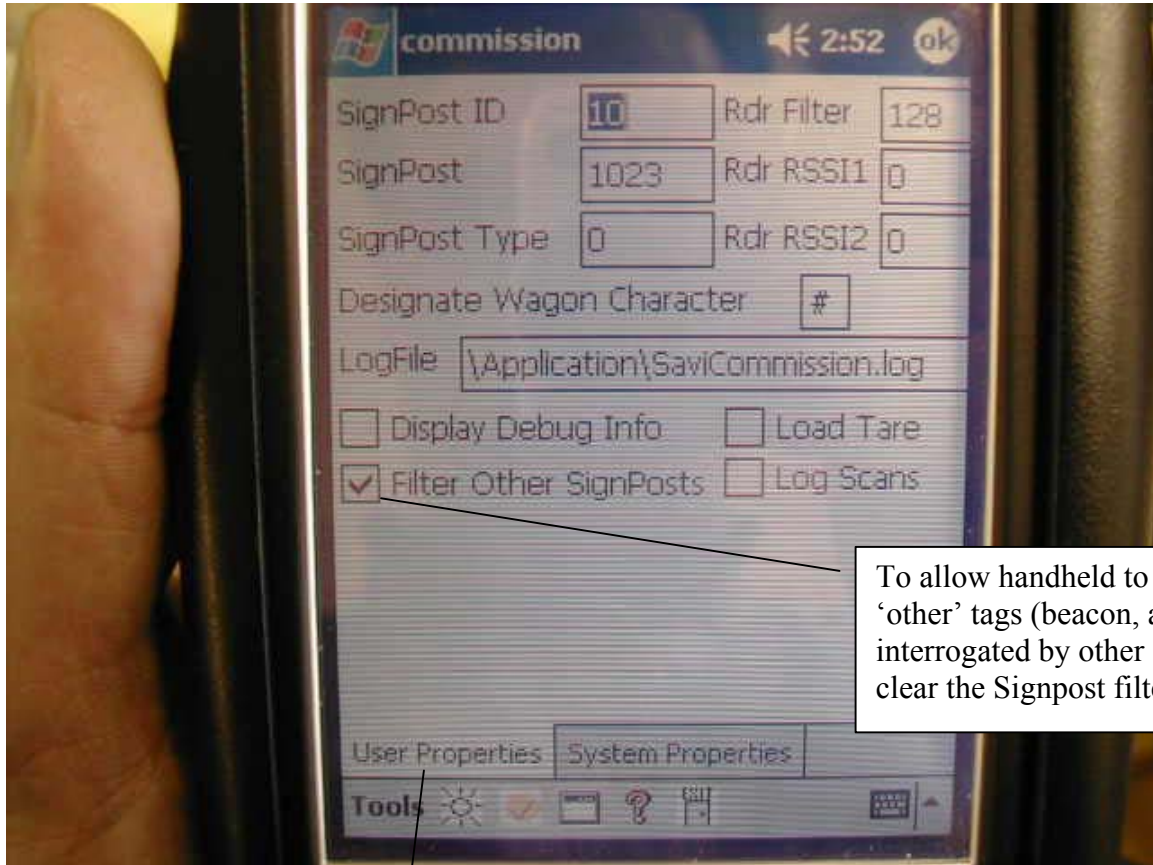Use **Exit** icon to terminate application.

**Warning!**
The **X** icon on the top right corner of the application window is used only to minimize the application.

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List of all scanned tags.

To change system parameters select **Setup** from the pull up menu when tapping on the **Tools** icon in bottom left corner.



To allow handheld to receive 'other' tags (beacon, alarm or interrogated by other Signpost) clear the Signpost filter check box.

User Properties such as Signpost ID uniquely define RFID module during the RF communication.

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