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Preface

This manual exists to help you use Savi Mobile Manager software on a Savi MobileReader 410R to operate the reader's RFID capability.

Related Publications

- *Savi MobileReader 410R Quick-Reference Guide, DOC-2003*
- *Savi Mobile Manager Administrator Guide DOC-2016*

Audience

This *Savi Mobile Manager User Guide* is written for new and experienced government and commercial RFID operators.

Getting Assistance

If you have trouble with the product, after you have checked your connections and this guide, contact Savi Technical Support:




- Telephone 1-888-994-SAVI (North America only) or 1-800-428-0554 between 8:00 a.m. and 5:00 p.m. Pacific Time.
- Send an e-mail to **help@savi.com**.

Whether you contact Savi by telephone or e-mail, please have the following product information ready, along with the exact sequence of operations (if possible) that caused the error:

- Model number and version
- Serial number
- System type (Gateway, Dell, etc.) and model
- Operating system and service pack level
- Network protocol

Conventions Used in this Manual

The table below explains the conventions of typography and usage in this book.

<i>Example</i>	<i>Meaning and Use</i>
	<i>Notes call attention to facts or advice that deserve special attention.</i>
	<i>Caution notices call attention to the possibility of damaging the product, the system, or your work (for example, potential loss of data).</i>
	<i>Warning notices call attention to the possibility of injury to people.</i>

Example

Meaning and Use

Terminal Locked	Bold type is used for prompts, window and field names, and other text as displayed on the screen.
A:\INSTALL	Bold type is also used for text you enter exactly as shown.
1005 DATA	Monospaced type is used for system messages, examples of data files, program code, and other text where column alignment is important.
<i>name.bmp</i> or <i>tag_id</i>	Italic type is used for emphasis of a word or phrase that is new or especially important.
Ctrl + Z	Used for a keyboard control codes or manual keystrokes. This example tells you to hold the Ctrl key while you press the Z key.

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Introduction

The Savi MobileReader[™] is a portable RFID and bar code reader controlled by a built-in computer. Savi Mobile Manager is the RFID software used for working with tags.

This guide describes how to use the software in the field:

- Work with tags
- Locate tags
- Search for specific tags
- Collect and save tag data
- Test RF conditions
- Get online help

It also includes a brief introduction to how tags work. This user guide covers basic functions accessible to all users. For complete information on functions of Savi Mobile Manager, please refer to the *Savi Mobile Manager Administrator Guide*.

This user guide is organized as follows:

- Installing Mobile Manager page 2
- Understanding Tags page 12
- Using Mobile Manager page 16
- Collecting Tag Data page 24
- Communicating with Tags page 33
- Using Online Help page 49
- Exiting Savi Mobile Manager page 51

Installing Mobile Manager

Savi Mobile Manager comes on an SRAM memory card for fast installation. If you have the SRAM memory card, you must first cold boot the Savi MobileReader and then install the card. Four procedures cover installing the card:

- Cold Booting the Reader
- Inserting Cards in the Card Drive
- Removing PC Cards from the Card Drive
- Changing the PC Card Battery

Cold Booting the Reader

◆ To cold boot the Savi MobileReader:

1. Press **I/O** to put the reader in suspend mode.
2. Press and hold **F3**, **2**, and **←** (left arrow), in that order.
3. Release all keys and then press **2**.
4. Press **I/O** to resume reader operation.
5. Type the password if the reader prompts you to do so.

The Boot Loader menu appears with the **Reboot** command already selected.



If you do not enter the correct password in three attempts, the reader resumes normal operation without rebooting.

6. Press **enter** to execute the **Reboot** command, which cold boots the reader.

7. The boot sequence begins with a RAM test (to bypass the test, press **Esc**).

When the Start-up menu appears, the **SRAM PCCard** option is already selected.

8. Press **enter** to load the SRAM driver.



The SRAM driver loads automatically after 15 seconds if you do nothing.

9. The reader loads the driver and returns the **C:>** prompt.

The Savi MobileReader is now ready to accept the SRAM PC card that stores the Savi Mobile Manager software.



You must follow the above procedure every time you cold boot the reader.

Inserting Cards in the Card Drive

The PC card drive on the Savi MobileReader is under the reader just below the laser scanner window.

♦ To insert a PC card:

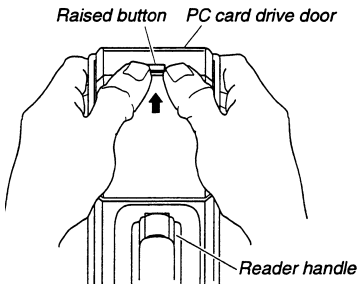
1. Make sure the reader is on. Press **I/O** to resume operation.



The reader must be operating when you insert a card into the PC card drive or the reader may not recognize the card.

2. Hold the reader with the handle pointed towards you.

3. Press down on the raised button with one thumb while firmly pushing the door forward with both thumbs until the PC card drive door releases.



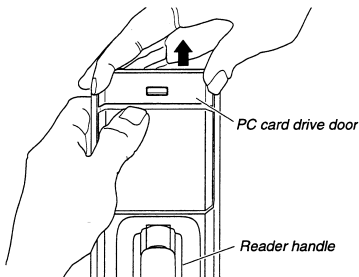


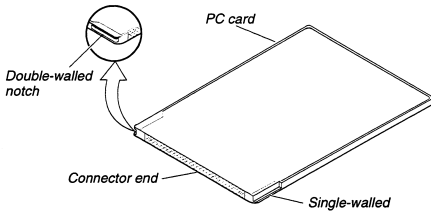
The drive door may seem hard to open until you get used to opening the door.

4. Slide the PC card drive door away from the front end of the reader as far as it will go.

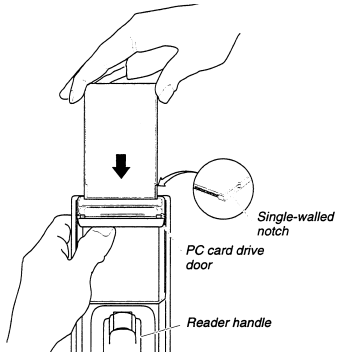
5. Swing the door up until the drive slot is accessible.

6. Locate the two notches on the edges of the PC card. The connector end of the card has a single-walled notch on one side and a double-walled notch on the other side.





7. Align the card, connector end first, with the single-walled notch on the right edge of the card.
8. Insert the card into the drive slot.
9. Push the card into the drive slot until it fits firmly in the connector at the back of the drive slot.





Do not force a PC card into the drive slot. If the card does not fit easily into the connector, remove it and make sure you have the card oriented correctly. Then try again.

About 5 seconds after you insert the card, the reader sounds a two-tone beep (low–high) to confirm that the card is correctly inserted.



If you do not hear the two-tone beep,

- 1) the card is not correctly inserted, or*
- 2) the SRAM driver was not loaded (a single low beep means a wrong PC card driver was loaded), or*
- 3) the PC card's battery is low (see the PC card instructions), or*
- 4) the PC card is faulty.*

10. Close the drive door by sliding the door shut until it latches.

Removing PC Cards from the Card Drive



Do not remove the PC card when the disk write icon is on or you may lose data.

♦ To remove the PC card from the reader:

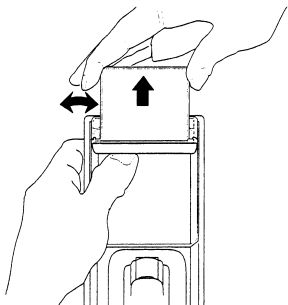
1. Make sure the reader is finished writing to the PC card.



You can remove the card with the reader turned on or off.

2. Hold the reader with the handle pointed towards you.
3. Open the PC card drive door
4. Slide the PC card drive door away from the front end of the reader as far as it will go.
5. Swing the door up until the drive slot is accessible.

6. Loosen the card from the connector by gently moving the card from side to side while pulling.
7. Slide the card out of the drive slot.



If the reader is on when you remove the card, it sounds a two-tone beep (high-low). If the reader is off when you remove the card, the two-tone beep sounds when you turn the reader back on.

8. Close the drive door by sliding the door shut until it latches.

Changing the PC Card Battery

When the PC card battery is low, a battery icon on the top of the reader screen flashes steadily.

♦ To change the PC card battery:

1. Remove the PC card from the reader.
2. Use a pen to slide the **LOCK** latch on the end of the PC card to the unlocked position.



Have the new battery ready before removing the old battery; the SRAM in the PC card loses all data if the battery is out of place for more than 5 minutes.

3. Slide the battery out of the PC card.
4. Place a new battery in the card (observe polarity).
5. Use a pen to push the **LOCK** on the end of the PC card back to the locked position.

Understanding Tags

These tag topics can help you understand how Savi Mobile Manager works with tags:

- About Tags page 12
- Tag Data page 13
- Tag Identity page 13
- Current Tag page 14
- Tag Wakeup page 15

About Tags

SaviTags[™] are battery-powered transceivers that store information (data) electronically. Tags receive and transmit data by radio frequency (RF) to SaviReaders when they receive software commands sent from an operator-controlled hand-held reader like the Savi MobileReader, or from a permanently installed or transportable SaviReader[™] controlled by software such as the Savi Asset Manager (SAM).

Tag Data

SaviTags store data in two types of formats: binary and database. Binary files store text or other raw data in binary format. Database tags store tabular data organized into fields and records. A special TAV (Total Asset Visibility) database format is used by the U.S. military.

When you format a tag, you set how it stores data. The SaviTag 410 stores up to ten individual files in one tag. You can store multiple databases and binary files within one SaviTag. SealTags, and SaviTags formatted as SealTags, can store only one type of data at a time.

Tag Identity

All tags come with two identifier fields:

- Tag ID

The tag ID is a permanent, unique, 7-digit decimal number set at the factory. The tag ID is read from each tag during collection. When Savi Mobile Manager displays tag IDs, it shows all seven digits (0000001). You cannot change the tag ID.

- Tag name

The tag name accepts alphanumeric input, letting you add local asset-identification information to the tag ID number.

Whenever you enter data into the tag name field, Savi Mobile Manager stores the tag ID and its assigned name in a cross-reference file (`CROSSREF.XRF`). To save manual input when tag names are already assigned, you can download this `CROSSREF.XRF` file from a host computer running Savi Asset Manager.

SaviTags display the tag ID and tag name fields in collection lists by default. You can choose to display only the tag name or tag ID.

Current Tag

To send commands that control an individual tag, you must select a current tag using one of these methods:

- Select it from a file containing a list of tags
- Select it from the list of collected tags
- Enter a specific tag ID

Tag Wakeup

Tags routinely stay in a low-power sleep mode to conserve battery power. When a tag detects a wakeup signal from a reader, it activates, ready to communicate. A tag goes back to sleep on command or when it receives no command for 30 seconds.

When Savi Mobile Manager performs a collection, it wakes all tags in range and collects their IDs. As it collects each tag, it stores the ID and returns the tag to sleep.



Every collection uses tag battery power; collect only when needed to find new or changed tags.

Using Mobile Manager

This chapter discusses Savi Mobile Manager menus and commands.

- Starting Savi Mobile Manager page 16
- Viewing the Main Menu page 17
- Navigating Menus page 18
- Entering Data page 19
- Activating Commands page 19
- Understanding Dynamic Menus page 20
- Working with Assets page 21


Starting Savi Mobile Manager

The Savi Mobile Manager software program is stored on and operated from the SRAM PC memory card. The program is available after the PC card is inserted into the Savi MobileReader. See “Installing Mobile Manager” on page 2 for instructions how to insert the PC card.

◆ **To start the Savi Mobile Manager software:**

6. At the **C:>** prompt, type **G:** and press **enter**.



*To type the colon (:), press the  key, then the letter **F**.*

7. At the **G:>** prompt, type **SMM** and press **enter**.

Upon starting, Savi Mobile Manager first displays its version information. After a short delay, it displays the Main menu.

Viewing the Main Menu

When you start Savi Mobile Manager, it displays an initialization screen while it loads, then displays the Main menu:

```
MAIN MENU
Collect tags
Tag commands
Configuration
Help
Exit
```

The Main menu lists commands that control the two user functions and two utility functions of Savi Mobile Manager:

- Collecting Tag Data page 24
- Communicating with Tags page 33
- Using Online Help page 49
- Exiting Savi Mobile Manager page 51

Navigating Menus

Press the up or down arrow key to move the cursor to the menu you want; press **enter** to view that menu. From a sub-menu, press **Esc** to return to the previous menu.


Occasionally, a menu lists more than 16 commands. When you view a menu longer than 16 lines, a down arrow appears in the far right column to show that more choices exist. Use the **pg up** and **pg dn** keys to display the next 16 lines up or down.


To scroll the page one line at a time, move the cursor to the last line, then press the down arrow. As the menu scrolls off the top, an up arrow appears in the far right column to show that more choices exist.

Entering Data

The Savi MobileReader keypad provides all the standard keys of a PC keyboard.



To access any character or function labelled above a key, press the  key, then the key required.

For example, to use Savi Mobile Manager from a PC card, you must change drives from the **C:** drive to the **G:** drive. To type the colon (:), press the  key, then the letter **F**.

Activating Commands

Each menu is a list of commands. When you select a command, one of three things occurs:

- A sub-menu displays
- A prompt requests input from the keypad
- The selected command activates

In general, press the **enter** key to activate a command or select the tag or file where the cursor is, and press the **Esc** key to return to the previous menu.

Understanding Dynamic Menus

Savi Mobile Manager limits menus to the commands available to you. Four factors control what menus and commands you see:

- Is there a current tag selected?
If not, the Tag commands menu does not list commands that work with a current tag.
- Have you collected tags?
If no tags have been collected since you started Savi Mobile Manager, the Collect tags menu does not list the collection commands **View last collection** and **Store last collect'n**.
- Is a password required?
Basic users only see commands that they can execute.
- To view all other commands, you must enter a Supervisor password.

Working with Assets

To find specific assets, you usually must search tag data to identify the specific tagged asset you need. To use searches effectively, create search criteria before you leave your work area. Then load the search criteria into reader memory before you go to the storage location, then execute the search. See “Using Search Menus” on page 27 for details about search criteria.

Searching for Assets

Here is a basic example of searching for assets to find a container holding boots:

1. Select **Collect tags**.
2. Select **Conditional collect**.
3. Go to within 300 feet or less of the area you want to search.
4. Select **Search by TAV data** or **Search by DB data**.



These commands search tags in range and collect tags that match the search.

5. Select **Edit search criteria**.
6. Select **Nomenclatr** from the field names (assuming a TAV format tag), and select **Equal to** as the operator.
7. Type in “boot” as your search criteria.
8. Press **Esc** to return to the Search menu.
9. Select **Execute search** to start the search.

When complete, the search displays the list of the tags matching your search.

Locating Tagged Assets

Once a search identifies tags that match your search criteria, you usually must locate them physically:

1. Select the **Tag commands** menu.
2. Select **Range to tag**.

The reader displays a bar graph that ranges from **Far** to **Near**.

- a. If the display reads very close to the **Near** end of the graph, skip to step 3.

- b. If the display reads **Far** or in the middle of the graph, take a few steps while watching the display change.

Keep walking, changing direction as the display changes, until the display reads very close to the **Near** end of the graph.

3. When the display reads **Near**, press **Esc** to return to the Tag commands menu.
4. Select **Beeper on** to turn on the tag's beeper.
5. When you find it, select **Beeper off** to turn off its beeper and save tag battery power.



Bleeping tags go to sleep in 90 seconds (SaviTag 410) or 3 minutes (SealTag). With the beeper off, tags go to sleep 30 seconds after a command.

Collecting Tag Data

This chapter discusses how to use Savi Mobile Manager to collect data stored in tags.

- Viewing the Collect Tags Menu page 24
- Performing Basic Collections page 25
- Performing Conditional Collections page 26
- Working with Collection Data page 33

Viewing the Collect Tags Menu

When you select **Collect tags** in the Main menu, Savi Mobile Manager displays the Collect tags menu:

```
Collect all tags
Conditional collect
View last collection
Store last collect'n
```

To return to the main menu, press **Esc**.

Performing Basic Collections

To collect the tag IDs of all tags in range, select **Collect all tags**. Savi Mobile Manager displays the following message:

Collecting tags...

As soon as the collection is complete, the screen displays the collected tags, as shown below:

TAG ID	TAG NAME
*275934	Food, canned, peach
827503	Boots, black
836255	-----
1074938☆	Shipment DZ8539



The asterisk at the left of a tag ID indicates that tag has a low-power battery. The symbol ☆ at the right of a tag ID identifies a SaviTag 410; others are SealTags.

If the tag name has not been previously read from a tag, Savi Mobile Manager displays a line of hyphens (“-----”) instead of the tag name.

To select one tag from a collection list as the current tag, move the cursor to that tag ID using the arrow keys and press **enter**.

To return to the Collect tags menu, press **Esc**.



If a collection list has more entries than fit on the screen, it displays a down arrow in the far right column of the last entry. Scroll down with the arrow key to display more entries, the same as for menus.

Performing Conditional Collections

To help you identify or locate tagged assets, Savi Mobile Manager lets you limit or expand collections in one of three ways:

- Search for tag databases having specific data
- Collect defined tag data along with tag IDs
- Collect only tags within a short range

The Conditional collect menu lists five commands:

- Search by TAV data
- Search by DB data
- Collect with data
- Collect short range

To return to the Collect tags menu, press **Esc**.

Using Search Menus

To search for tags with specific data stored in a database, select **Search by TAV data** or **Search by DB data**. Each search menu lists four commands:

- Load search (or TAV or DB) criteria
- Set search (or TAV or DB) criteria
- Execute (TAV or DB) search
- Store search (or TAV or DB) criteria

To return to the previous menu, press **Esc**.



Savi Mobile Manager uses the same search commands throughout, whether you are performing a collection search, searching an individual tag or file database, or searching stored collection data.

Understanding Search Criteria

Search criteria define the data that you want to match in the tags you search. To search tag databases, the software prompts you to select a current tag; the tag you select determines the database format of the search.



You can skip this step for TAV data searches because the TAV data format is standardized.

When you create or edit a search, the software prompts you to enter three components, using the database format of the current tag:

- **Field name**

You choose from list displayed.

- **Operator**

You choose from list displayed.

- **Search value**

You enter, limiting input by the maximum character count and field type (alphanumeric or numeric).

Once you set search criteria, you can store them in a file (*.DBS) and load them later to re-use.

Loading Search Criteria

To load search criteria from an existing **.DBS** file, select **Load search criteria**, then select the desired **.DBS** file from the list presented. If no **.DBS** file exists, you must create new criteria using the **Edit search criteria** command.

To return to the Search menu, press **Esc**.

Setting Search Criteria

To create new search criteria, select **Set search criteria**. You can also use this command to edit existing criteria you load from a **.DBS** file.

1. When you select **Set search criteria**, the software prompts you to enter the three search components, in order:

```
SELECT_FIELD_NAME_____  
Quantity  
Description  
Size/Weight
```

2. Once you select a database field name, the software prompts you to select an operator:

```
SELECT AN OPERATOR
Equal to
Less than or equal to
More than or equal to
Not equal to
```

3. Once you select an operator, the software prompts you to enter the value, and shows the field size (maximum number of characters you can enter—20 if alphanumeric and 17 if numeric) and field type (alphanumeric or numeric—enter only numbers if numeric) of the field from step 1:

```
Field size: 20
Field type: A
Enter search value:
```

—

4. Type in the text or number you want to find.



Searches are case-sensitive: “Boot” does not match “bOOT.” Searches match the text you type with the start of a text string or database field.

Executing a Search

To start a collection search using the search criteria currently loaded, select **Execute search**. When the search is complete, the screen shows the list of tag IDs that matched the criteria. Select a tag in the list as the current tag; the software displays the Tag command menu.

To return to the Search menu, press **Esc**.

Storing Search Criteria

To store newly created or edited search criteria for future use, select **Store search criteria**. The software prompts you to enter a file name for the search and stores it in the reader.

To return to the Search menu, press **Esc**.

Viewing Search Criteria

To view existing search criteria, select **View search criteria**. The software prompts you to select a file name from the existing search files stored in the reader, and displays the search criteria from the file on the screen.

To return to the Search menu, press **Esc**.

Collecting with Data

To collect defined data from all tags in range, select **Collect with data**. You are asked to choose a pre-defined criteria file (`filename.CWD`). The reader then collects both the tag IDs and the specified data from all tags within range. Once read, the collected data displays on screen.

Limiting Reader Range

The 200-foot reader range may wake up more tags than desired. These unneeded wakeups lengthen collection time and waste tag battery power. To limit the range to about 50 feet for one collection, select **Collect short range**. The software sets the reader power to short range, then collects tag IDs and names, and finally returns power to its normal setting.

Working with Collection Data

Once a collection is complete, Savi Mobile Manager keeps the collected data in a file until it is stored or overwritten by another collection.

To display the most recent collection, move the cursor to **View last collection** and press **enter**.

To save the most recent collection, move the cursor to **Store last collect'n** and press **enter**.

To return to the main menu, press **Esc**.

Communicating with Tags

This chapter discusses using Savi Mobile Manager to format, read, write, and control individual tags:

- Defining the Basic Commands page 34
- Viewing the Tag Commands Menu page 35
- Using General Tag Commands page 36
- Working with Tag Data page 39
- Working with TAV Data page 40
- Working with Tag Databases page 45
- Working with the Tag File System page 46

Defining the Basic Commands

Five commands work with all tags of any format and any type of data. Like the search commands, these data commands are used throughout Savi Mobile Manager:

- **Read**—reads tag data or tag file data into reader memory and displays it.
- **View**—displays previously read tag data or tag file data on screen.
- **Store**—saves previously read tag data or tag file data to a file in the reader.
- **Edit**—lets you edit previously read data.
- **Write data from file**—writes data into a tag or tag file from an existing file in the reader.

An additional command works with organized data (TAV commodity data, databases)

- **Browse**—lets you view the first 25 records of a database to view its structure and contents.

Viewing the Tag Commands Menu

With a current tag selected, select **Tag commands** from the main menu to display the Tag commands menu:

- Tag data*
- Beeper on
- Beeper off
- Range to tag
- Preview tag data
- Read tag name
- Select current tag
- Enter current tag
- Write tag name
- Format tag



The first command in this dynamic menu matches the format of the current tag:

- Tag data
- TAV data
- Tag database
- Tag file system



*If you do not have a current tag selected, **Tag commands** does not appear in the Main menu.*

To return to the main menu, press **Esc**.

Using General Tag Commands

These commands let you turn a tag's beeper on and off, get an approximate distance from a tag, preview defined data, read or write a tag's name, and select or enter a current tag.

Using the Tag Beeper

To turn on a tag's beeper for audible guidance to a particular tag, select a current tag, then select **Beeper on**. To turn the tag off, select **Beeper off**. The beeper shuts off automatically after three minutes.



Some SaviTags 410 have no beeper. Beeper commands only display if a current tag has a beeper.

To save tag battery power, turn off beepers promptly.

Ranging Tags

To get an approximate distance from the reader to a specific tag, select **Range to tag**. After waking up the tag, the software displays the range:

```
Tag ID: 123456
n n n n n n
|Far|=|====|=====|Near
```

The software continually updates the estimated range. Press **enter** to return to the Tag commands menu.

Working with Preview Data

To preview 236 characters of preview data stored in a tag, select **Preview tag data**. The software wakes the tag, and reads and displays a defined preview block (20–255 of extended memory) exactly as stored.

Selecting a Current Tag

To select the current tag from a list saved to a file, select **Select current tag**. The software prompts you to choose from a list of available tags.



Available tags are displayed from recent collection and tag name files stored in the reader.

If you know the tag ID for the tag you want, select **Enter current tag** and then type in the tag ID number at the prompt.

Working with Tag Names

To read a tag's name, select a current tag, then select **Read tag name**, which reads and displays the name from the current tag.

Working with Tag Data

When the current tag contains raw data, select **Tag data** to display the Tag data menu:

Read data from tag
Write data to tag



Tag data may contain non-printable characters. These characters display as periods: (“.”).

To read all of the tag data into the reader’s memory, select **Read data from tag**.

Once the data is read, to view or store the tag data, press **enter** to display the menu below:

View data
Store data to file

Select **View data** to display the tag data on screen; select **Store data to file** to save the tag data as a file in the reader.

To write data from a file in the reader into the current tag, select **Write data from tag**.

Press **Esc** to return to the previous menu.

Working with TAV Data

When the current tag uses the TAV data format, select the **TAV data** command to display its menu:

```
License plate data
TCMD data
Commodity data
Read all data
Store all data
Write from TAV file
```

The first three commands access sub-menus that work with the three types of TAV data individually.

The last three commands let you read, store, and write TAV data to the tag from a file in the reader.

Defining the TAV Format

The TAV format includes three types of data that you work with separately:

- License-plate data (lists summary information about the tag and its data in text format)
- TCMD data (lists the Transportation Control and Movement Document in text format)

- Commodity data (contains a database of pre-defined format)

You can read, view, store, edit, and write any of these types of data.



To edit any data, you must first read the data.

See “Defining the Basic Commands” on page 34 to review the commands that are common to all three types of TAV data: read, view, store, edit, and write.

Using License Plate Commands

These five commands let you read, view, store, and edit license-plate data, or write license-plate data to the tag from a file in the reader.

Read license plate

View license plate

Store license plate

Edit license plate

Write data from file

Using TCMD Data Commands

These five commands let you read, view, store, and edit TCMD data in the tag, or write TCMD data to the tag from a file in the reader:

Read TCMD data

View TCMD data

Store TCMD data

Edit TCMD data

Write data from file

Using Commodity Data Commands

These seven commands let you read, view, store, edit, and write commodity data. In addition, you can search commodity data records and create new database records:

Read preview data

Browse records

Read all records

Search records

View records

Edit records

Store records

Create records

Write data from file

See “Using Search Menus” on page 27.

Editing TAV Data

This sample procedure demonstrates how to edit data in a current tag.


1. Select a current tag of TAV database format.
2. Select **TAV data** from the **Tag commands** menu.
3. Select **TCMD data**.
4. Select **Read TCMD data**. The first line of data from the tag displays on the screen.
5. Press **Esc** to return to the TCMD data menu.
6. Select **Edit TCMD**. The first line of data from the tag displays on the screen.



*If the menu does not list an edit command, select **Read TCMD data** and repeat step 6.*

7. Press **enter** to display all the data.
8. Type in the new or updated data.



To access any character or function labelled above a key, press the  key, then the key required.

9. Press **Esc** when you are done entering data. The screen displays the first line of new data.
10. Press **Esc** to update the data in the tag. The software prompts:
Update records in the tag? Y
11. To make the changes, press **enter** to write the edited data to the tag. The software displays a status message while writing the changes, then displays the results of the write.
12. To leave the data in the tag untouched, press **Esc** to return to the TCMD data menu. The software displays the **TCMD data** menu.

Working with Tag Databases

The **Tag database** commands lets you read, view, edit, and store database records, or write data to the tag from a file in the reader. In addition, you can read database preview data, search it, and create additional records.

When the current tag uses the tag database format, select the **Tag database** command to display the menu:

- Read preview data
- Browse records
- Read all records
- Search records
- View records
- Edit records
- Store records
- Create records
- Write data from file
- Read DB configurat'n

See “Using Search Menus” on page 27 to review Savi Mobile Manager’s search function.

Working with the Tag File System

The **Tag file system** commands let you select, read, view, store, write, rename, and delete a file in the current tag. In addition, you can delete all files in the tag at once.

When the current tag uses the tag file system format, select the **Tag file system** command to display the menu:

```
TAG_FILE: xxx.xx
Select current file
Enter current file
Read tag file
View tag file
Store tag file
Write tag file
Rename current file
Delete current file
Delete all files
```

To select a current file (displayed at the top of the menu), select **Select current file**. The software displays a list of files stored in the tag; move the cursor to the desired file and press **enter**.

To perform a particular action, first select a current tag file, then select the desired command from the menu.

Defining Tag Files and Names

A SaviTag 410's tag file system stores up to ten files. A tag can store any combination of file types. Tag file names use the format **XXX.XX**.



You must use complete five-character file names in a tag: “123.tx” is legal, “01.q” or “HS.tx” will cause an error message.

The extension can identify the type of data (for example, **.BN** for binary or **.TX** for text).

Reading and Writing to Tag Files

The read, view, store, and write commands let you read, view, and store data in tag files, or write data to a selected tag file from a file in the reader. See “Defining the Basic Commands” on page 34 to review the basic data functions.



Tag data may contain non-printable characters. These characters display as periods: (“.”).

Data Transfers Between a PC and the SMR-410R

The procedures for installation and operation of data transfer software can be found in the *Savi Mobile Manager Administrator Guide*.

Using Online Help

Savi Mobile Manager includes two kinds of online help. A searchable listing describes the function of each command in the software.

◆ To view help files on screen:

1. Select **Help** from the main menu.
2. Select a topic from the help menu:

- Getting started
- Selecting commands
- Searching for assets
- Locating tags
- Defining commands

The first four topics display individual text files that give basic information about using Savi Mobile Manager:

- **Getting started** describes how to navigate among menus, use the keypad to select commands and enter data, and exit Savi Mobile Manager.
- **Selecting commands** describes how to activate commands and work with basic collection commands.

- **Searching for assets** describes conditional collections and search functions. It also gives a short sample procedure for searching tags for specific assets.
- **Working with tags** describes tags and tag commands. It also gives two short sample procedures: one for using range and beeper commands to find a specific tag physically; a second one for using commands to read, edit, and update TAV data in a tag.

The last command in the help menu, **Defining commands**, opens a searchable dictionary of all the commands in Savi Mobile Manager.

To read about a specific command, type the first few characters of that command; the help system interactively lists only the commands that begin with the characters you type. If you still have more than one command, you can select the command of interest from the list to view the help text for that command.

Each help text displays the previous menu for the command and a short description of what that command does.

Exiting Savi Mobile Manager

To exit Savi Mobile Manager and return to the MS-DOS prompt, select **Exit**.

Notes

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