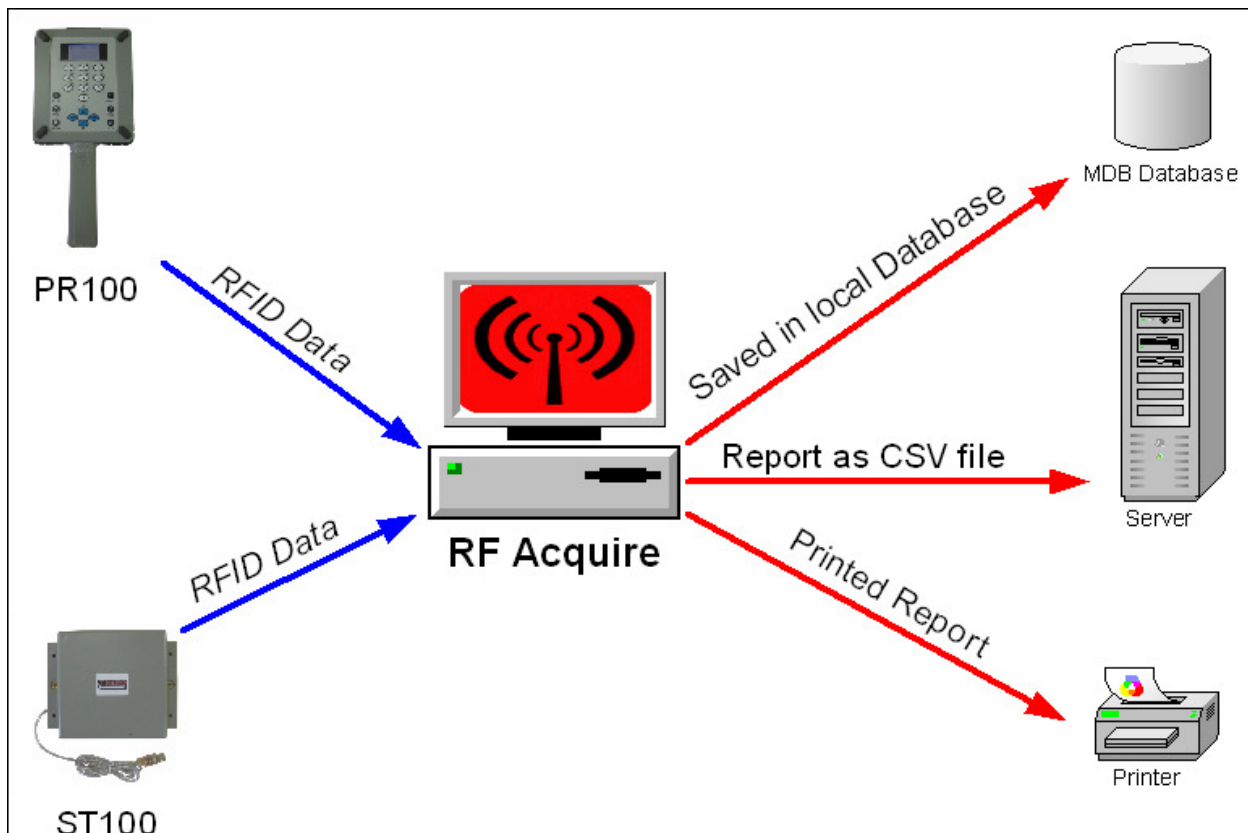


# Table of Contents

- Software Overview** ..... 2
- Home Screen** ..... 3
  - Report of Recently Read RFID Data ..... 4
- Report Screen**..... 5
  - RFID Report..... 6
- Readers Screen**..... 7
- Users Screen** ..... 8
- Microsoft Excel Users** ..... 9

## Software Overview

RF Acquire, displays, saves and manages data read with Tharo RFID readers. RF Acquire has a real-time display of data read by connected RFID readers and can upload data from hand-held readers. The software saves the RFID data with meaningful information, such as the date and time the data was read, the name of the RFID reader used, and a description of the RFID data. Custom reports of all saved data can then be displayed and searched, as well as written to CSV file or printed. A report written to a CSV file will allow you to easily upload data to your existing database or ERP system. Alternatively, you may also choose to directly work with the software's Microsoft Access database.



### Advantages:

- Real-time view of scanned RFID data
- Archiving of past RFID data
- Creation of custom reports
- Integration to existing database systems via CSV files

### Requirements:

- Windows 2000 or higher
- Microsoft .Net Framework 2.0
- Minimum of 50 MB free hard drive space \*Depends on database size

## Home Screen

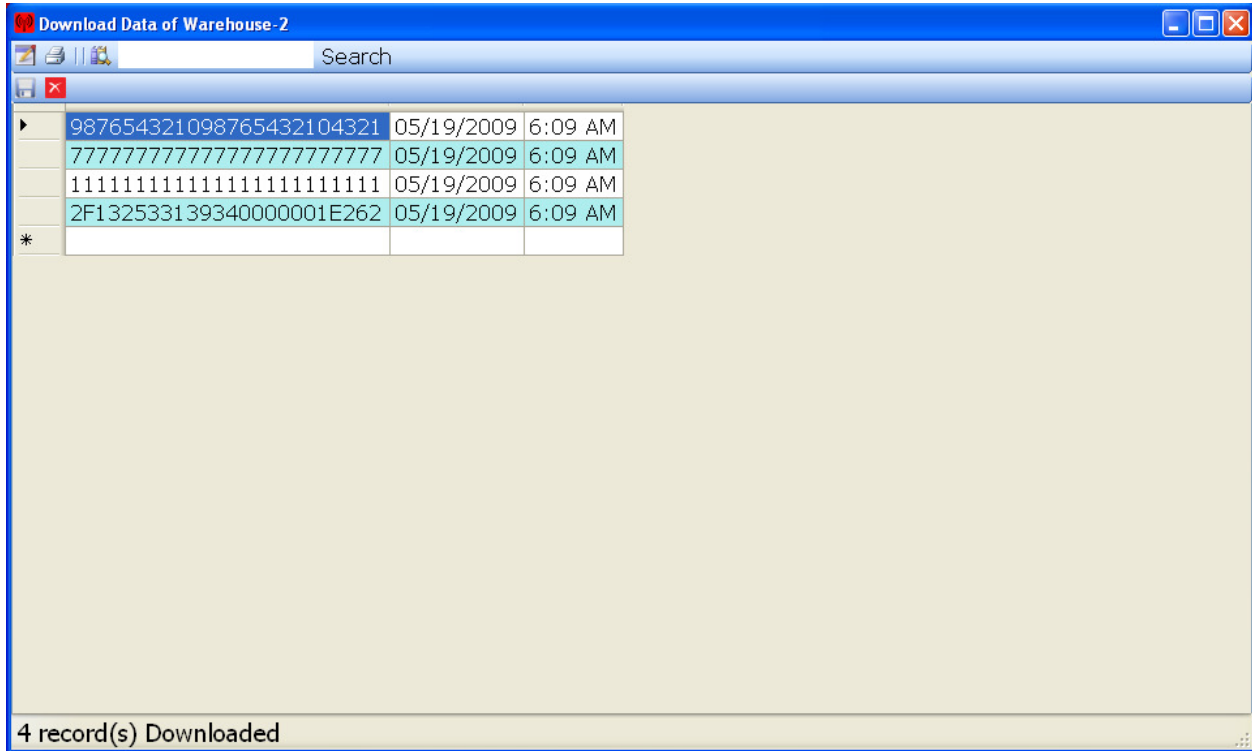
Home is the main screen of the RF Acquire software. From here you can start and stop installed RFID readers, download data from hand held readers, as well as view, search, save and export recently scanned RFID data. You will also be able to enter a session ID, which is a description of the RFID data that you are about to scan. The session ID can later be used to search or filter saved RFID data.








<input type="button" value="Start"/>	Prompts the user to enter a session ID and starts reading data from the selected RFID reader.
<input type="button" value="Stop"/>	Stops reading data from the selected RFID reader, saves the read data, and displays a report of the data.
<input type="button" value="Download"/>	Downloads data read with the hand-held RFID reader, while it was disconnected from the PC.

## Report of Recently Read RFID Data

Below is an example of a view generated from the Home screen.



	Creates a CSV file of the currently displayed report.
	Prints the currently displayed report.
	Shows a print preview of the currently displayed report.
Search	Searches the currently displayed report for any occurrence of the text entered in the input box.
	Saves the data in the currently displayed report. This icon only displays when downloading data from the hand-held RFID reader. <b>You must <u>CLICK SAVE</u>, if you want the data to be available after the report is closed.</b>
	Erases the memory in the hand-held RFID reader. This icon only displays when downloading data from the hand-held RFID reader.

## Report Screen

The Report screen allows you to create customized reports of all RFID data that has been read and saved with the RF Acquire software. You will be able to select the report columns and search criteria for the data to be included in the report.

RF Acquire

**RF Acquire** By Tharo Systems

Home

Report

Readers

Users

About

Select Columns to be in Report

- Reader
- EPC
- Time
- Date
- SessionID

Select Reader to be in Report

- Door-1
- Gray-1
- Gray-2
- PR100

Select Starting and Ending Time for Report

05/11/2009 08:00:00 AM To 05/15/2009 17:00:00 PM

Search for Session ID

First Shift

Search for specific EPC

Generate Report

Generate Report

Generates a reports based on the chosen criteria.

If you are familiar with Microsoft Access databases, you may choose to work directly with RF Acquires database. The database is named RFIDDATA.mdb and is located in:

“C:\Documents and Settings\All Users\Application Data\Tharo\RFIDDATA”




**It is important that you do not change the structure of this database or open it while RF Acquire is in use.**

# RFID Report

Below is an example of a report generated from the Report screen.

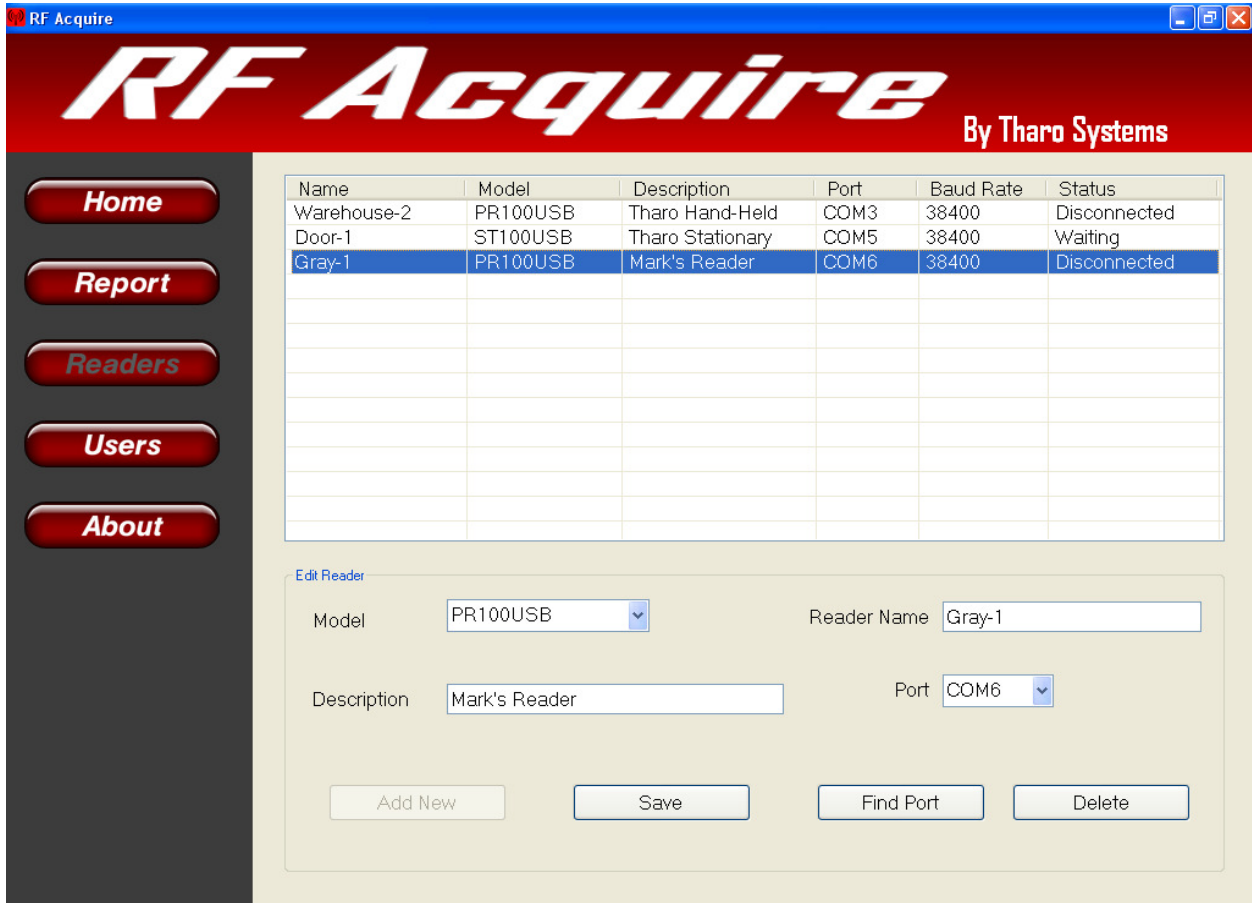
ReportForm					
Search					
	EPC	Date	Time	SessionID	Reader
▶	2F132533139340000001E262	05/13/2009	08:16:35 AM	11	PR100
	11111111111111111111111111111111	05/13/2009	08:16:41 AM	11	PR100
	2F132533139340000001E262	05/13/2009	08:36:12 AM	11	PR100
	11111111111111111111111111111111	05/13/2009	08:36:16 AM	11	PR100
	11111111111111111111111111111111	05/14/2009	14:02:47 PM	1	PR100
	11111111111111111111111111111111	05/14/2009	14:04:13 PM	1	PR100
	11111111111111111111111111111111	05/15/2009	14:17:43 PM	1	Gray-1
	2F1203631323238000000158	05/15/2009	14:17:43 PM	1	Gray-1
	3128499602D2112480000000	05/15/2009	14:17:47 PM	1	Gray-1
	123456789012345678901234	05/15/2009	14:18:09 PM	1	Gray-1
	2F1203631323238000000158	05/15/2009	14:19:17 PM	1	RED
	11111111111111111111111111111111	05/15/2009	14:19:19 PM	1	RED
	123456789012345678901234	05/15/2009	14:19:19 PM	1	RED
	3128499602D2112480000000	05/15/2009	14:19:19 PM	1	RED
	11111111111111111111111111111111	05/15/2009	14:19:29 PM	1	Gray-1
	123456789012345678901234	05/15/2009	14:19:29 PM	1	Gray-1
	3128499602D2112480000000	05/15/2009	14:19:33 PM	1	Gray-1
	77777777777777777777777777777777	05/15/2009	14:20:03 PM	1	Gray-1
	77777777777777777777777777777777	05/15/2009	14:20:05 PM	1	RED
	2F132533139340000001E262	05/15/2009	14:20:11 PM	1	Gray-1
	987654321098765432104321	05/15/2009	14:20:13 PM	1	Gray-1
	123456789012345678901234	05/15/2009	14:31:34 PM	TEST!@#	RED
	3128499602D2112480000000	05/15/2009	14:31:34 PM	TEST!@#	RED
	11111111111111111111111111111111	05/15/2009	14:31:35 PM	TEST!@#	RED
	11111111111111111111111111111111	05/15/2009	14:31:40 PM	TEST!@#	Gray-1
	123456789012345678901234	05/15/2009	14:31:43 PM	TEST!@#	Gray-1
	3128499602D2112480000000	05/15/2009	14:31:45 PM	TEST!@#	Gray-1
	2F1203631323238000000158	05/15/2009	14:31:50 PM	TEST!@#	RED




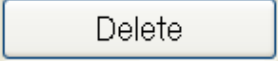
47 record(s) selected

	Creates a CSV file of the currently displayed report.
	Prints the currently displayed report.
	Shows a print preview of the currently displayed report.
<b>Search</b>	Searches the currently displayed report for any occurrence of the text entered in the input box.

## Readers Screen

The Readers screen allows you to add, delete and manage RFID readers. When adding a new reader, you will have to enter a unique reader name to help you identify individual readers. A description field is also available to further identify a specific reader.



	Adds a new RFID reader as defined in the Model, Reader Name, Description, and Port input boxes.
	Saves changes made to an RFID reader. To make reader changes, select the reader from the list and edit the input boxes. If you wish to edit the Reader Name, you will have to add it as a new reader in the software.
	Opens the Windows Device Manager. To add a new RFID reader, you have to specify which COM port is assigned to the reader. Select the port that is assigned to the "USB Serial Port" in the Ports section of the Windows Device manager.
	Deletes the selected RFID reader.

# Users Screen

The Users screen allows you to select if the software will require a user ID and password, as well as add, delete and manage users. By default RF Acquire includes two users:

- The user “**manager**” has full privileges and can sign in with the password “**all**”.
- The user “**user**” has READ ONLY authorization, which allows him to only use the Home and Report screens. This user can sign in with the password “**read**”.

**Confirm that you know the User ID and Password of a user with full authorization before enabling the user signon option.**

User ID	Name	Description	Authorization
manager	Mark Smith	Supervisor	FULL
user	Employee	Warehouse Workers	READ ONLY

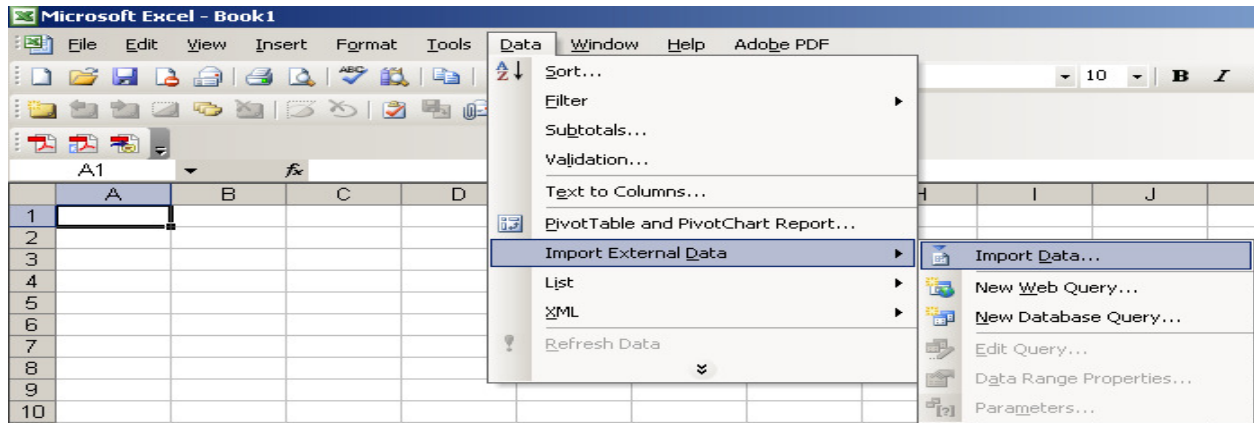
	Adds a new user as defined in the User ID, Name, Description, Authorization, and Password input boxes.
	Saves changes made to a user. To make user changes, select the user from the list and edit the input boxes. If you wish to edit the User ID, you will have to add a new user in the software.
	Deletes the selected user.



# Microsoft Excel Users

If you are using Microsoft Excel to view the standard CSV file exported from RF Acquire. Excel will by default format the RFID data into scientific notation. To view the data correctly, you will have to use the Import Data Wizard within Excel. When following the Wizard's on-screen instructions, select **Comma** as the Delimiter and **Text** as the Column data format.

In Microsoft Office 2003 you can open Excel's Import Data Wizard by selecting the **Data** menu, then **Import External Data**, followed by the **Import Data** option.



In Microsoft Office 2007 you can open Excel's Import Data Wizard by selecting the **Data** ribbon, then **Get External Data**, followed by the **From Text** option.

