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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.

7				- 7		
2	<u> </u>	<u>H</u>			By Thar	o Systems
	Reader	Description	Status	Port	Operation	Download
	Warehouse-2	Tharo Hand-Held	Disconnected	СОМЗ	Start	Download
•	Door-1	Tharo Stationary	Reading	сом5	Stop	Download
Re	eader	RFID DATA	111111	Date	Time	Session II
Re	eader	RFID DATA		Date	Time	Session I
Door-1		111111111111111111111111111		05/19/2009	9:16 AM	1
Do	or-1	3128499602D211248	0000000	05/19/2009	9:16 AM	1
Do	or-1	12345678901234567	8901234	05/19/2009	9:16 AM	1

Start	Prompts the user to enter a session ID and starts reading data from the selected RFID reader.
Stop	Stops reading data from the selected RFID reader, saves the read data, and displays a report of the data.
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.

🔛 Dov	vnload Data of Warehouse-2			
2 🔿	II 🕰 Search	1		
•	987654321098765432104321	05/19/2009 e	5:09 AM	
	777777777777777777777777777777777777777	05/19/2009 6	5:09 AM	
	111111111111111111111111111111111111111	05/19/2009 6	5:09 AM	
	2F132533139340000001E262	05/19/2009 6	5:09 AM	
*				
4	and (a) Devenlee de d			
4 rec	ora(s) Downloaded			

2	Creates a CSV file of the currently displayed report.
A	Prints the currently displayed report.
íð,	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. You must <u>CLICK SAVE</u> , if you want the data to be available after the report is closed.
×	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 A	Equire By Tharo Systems
Home	
Report Readers Users	Select Columns to be in Report Reader EPC Time Select Reader to be in Report Coor-1 Gray-1 Gray-2
About	 PRT00 Select Starting and Ending Time for Report
	05/11/2009 08:00:00 AM ▼ 05/15/2009 17:00:00 PM ▼ Image: Search for Session ID Image: Search for specific EPC First Shift Image: Search for Session ID
	Generate Report
Generate Report	enerates 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.

🙀 Re	ortForm				
28	II 🕰 Search				
	EPC	Date	Time	SessionID	Reader
•	2F132533139340000001E262	05/13/2009	08:16:35 AM	11	PR100
	111111111111111111111111111111111111111	05/13/2009	08:16:41 AM	11	PR100
	2F132533139340000001E262	05/13/2009	08:36:12 AM	11	PR100
	111111111111111111111111111	05/13/2009	08:36:16 AM	11	PR100
	1111111111111111111111111111	05/14/2009	14:02:47 PM	1	PR100
	111111111111111111111111111	05/14/2009	14:04:13 PM	1	PR100
	111111111111111111111111111111	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
	111111111111111111111111111111	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
	111111111111111111111111111111111111111	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
	7777777777777777777777777777777	05/15/2009	14:20:03 PM	1	Gray-1
	777777777777777777777777777777777777777	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
	111111111111111111111111111111111111111	05/15/2009	14:31:35 PM	TEST!@#	RED
	111111111111111111111111111111	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
47 n	cord(s) selected		1.01.E0 DM		

2	Creates a CSV file of the currently displayed report.
4	Prints the currently displayed report.
îگ	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.

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.

Name Warehouse-2 Door-1 Gray-1	Model PR100USB ST100USB PR100USB	Description Tharo Hand-Held Tharo Stationary Mark's Reader	Port COM3 COM5 COM6	Baud Rate 38400 38400 38400	Status Disconnecte Waiting Disconnecte
Edit Reader	PR100USB		Reader Na	me Grav-1	
Description	Mark's Reader		F	Port COM6	•

Add New	Adds a new RFID reader as defined in the Model, Reader Name, Description, and Port input boxes.
Save	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.
Find Port	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.
Delete	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.

ire IRF	Ac	<u>q</u> u	ire	D. These Casteria
				By Tharo Systems
Home	User Signon Required	? No 🛩		
	User ID	Name	Description	Authorization
Report	manager	Mark Smith	Supervisor	FULL
	user	Employee	Warehouse Workers	READ ONLY
Readers				
Users				
00010				
About	2			
	Liser ID		Mana	
			Name	
	D		 X. G. H. Stevensky, Proceeds. 	
	Description		Authorization	READ ONET
	Password		Confirm Password	
	Add Use	er	Save	Delete User

Add User	Adds a new user as defined in the User ID, Name, Description, Authorization, and Password input boxes.
Save	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.
Delete User	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 <u>Microsoft Office 2003</u> you can open Excel's Import Data Wizard by selecting the **Data** menu, then **Import External Data**, followed by the **Import Data** option.



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

	9	- (21 -) ₹		Book1 - Microsoft Excel									
	Home	Insert Page		Layout Formulas		Data R	Data Review View Developer							
Get Exte Data	rnal Re	Connections Properties efresh All - Genetics		S A↓ AZA Z↓ Sort	Filter	🖗 Clear 🐌 Reapply 🏆 Advanced	Text to Columns	Remove Duplicates			→ Group ▼ ↓ Ungroup ▼ ↓ Subtotal		Data Analysis	
ļ			Connections		Sort & Filt			Data Tools			Outline 🕞		Analysis	
		*		Existing										
From	From	From F	From Other		E	F	G	Н	I.	J	K	L	М	
Access	Web	Text	Sources *	Connections										
Get External Data														
15 Get External Data From Text														
16	Import data from a text file.													
17	Drocc E1 for more help													
18		These rest is not more neip.												