
User's Guide

Using RFDBManager

For 433 MHz / 2.4 GHz RF

Version 1.23.01



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CHAPTER 1

Introduction

The RF Database Manager software lends itself to real-time data exchange, by updating and/or editing database on the host computer. Working with the CipherLAB RF data collection terminals, it can easily create or link to a back-end database according to the pre-defined properties of lookup file/s.

Sparing your time from the tedious work of writing codes, the RFDBManager gets your data linked to a number of legacy OLE database easily.



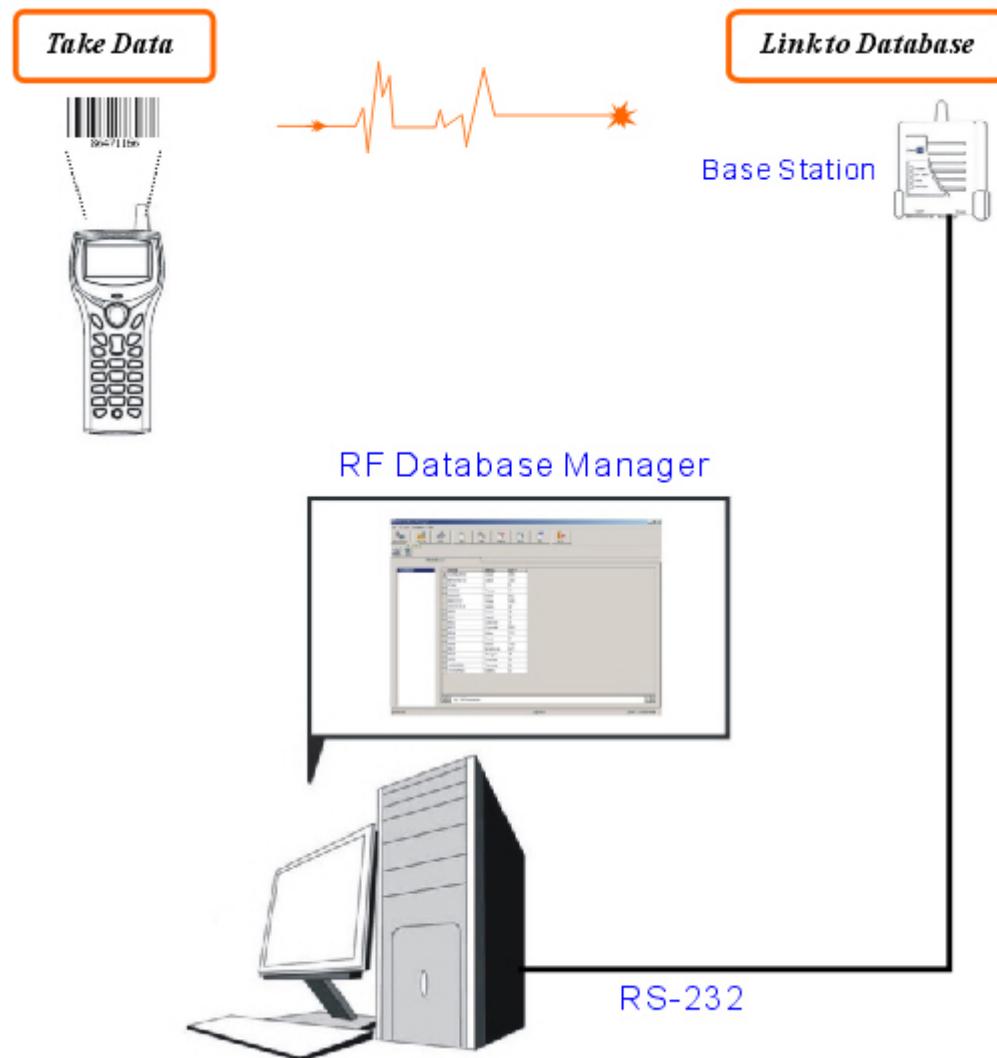
Note: The properties of lookup file/s must be defined through the RF Application Generator in advance.

In This Chapter

How it works.....	2
Typographical Conventions	3
Revision History	3

How it works...

Options of RF specifications include 433 MHz and 2.4 GHz, depending on your application requirements.



Typographical Conventions

Before you start using this guide, it is important to understand the terms and typographical conventions used in the documentation.

The following kinds of formatting in the text identify special information.

Formatting convention	Type of Information
Numbers (1, 2, 3...)	Step-by-step procedures. You can follow these instructions to complete a specific task.
Special Bold	Items you must select, such as menu options, command buttons, or items in a list.
<i>Emphasis</i>	Use to emphasize the importance of a point or for variable expressions such as parameters.
CAPITALS	Names of keys on the keyboard. for example, SHIFT, CTRL, or ALT.
KEY+KEY	Key combinations for which the user must press and hold down one key and then press another, for example, CTRL+P, or ALT+F4.

Revision History

Version	Release Date	Notes
1.23.01	April 22, 2005	Initial release

CHAPTER 2

The RFDBManager Interface

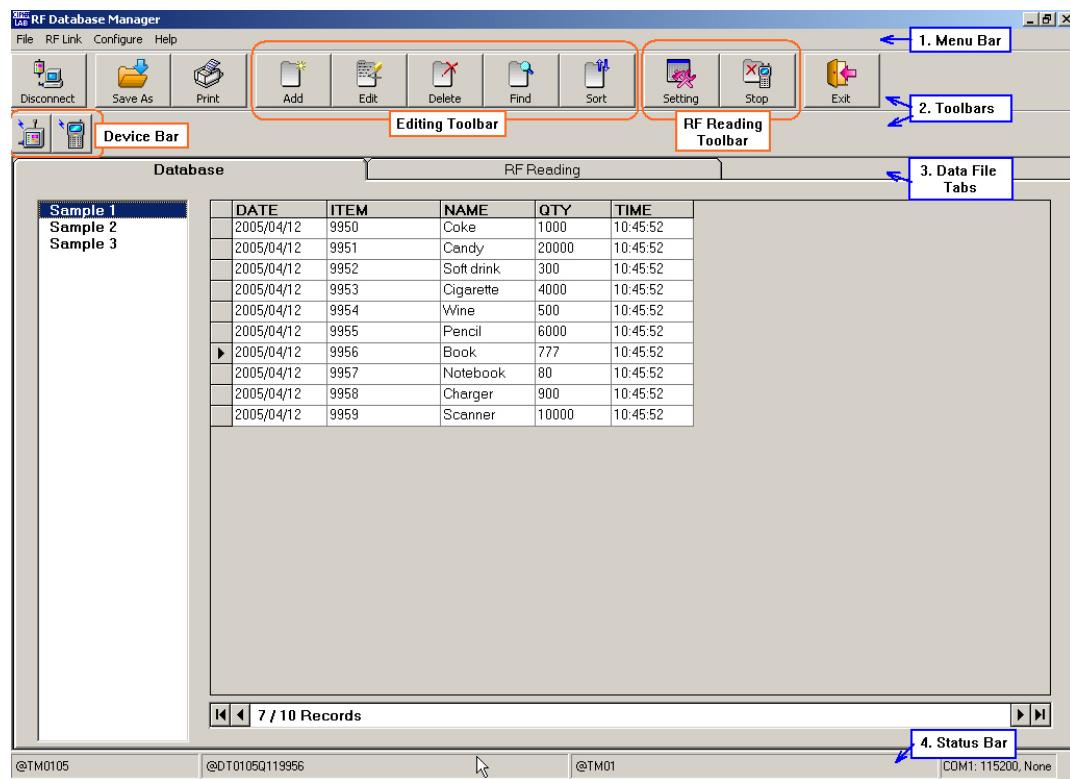
This chapter describes the main window and interface elements you need to get familiar with before getting started.

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Main Toolbar	10
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Device Bar	14
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Main Window

The RFDBManager's main window has menus and toolbars on the top, and the rest of the window displays available database and/or RF reading section.



➤ Database

- When you click on the Database tab, it displays in two panes - title of data sheet on the left and its content on the right. It can display up to three data sheets.

➤ RF Reading

- When you click on the RF Reading tab, it simply displays data received.



Note: The data file tab/s vary with the lookup file attributes. (1) The Database tab will be brought up when the application template contains a form that makes reference to lookup file/s. (2) The RF Reading tab will be brought up when the application template contains a form that doesn't make reference to lookup file/s.

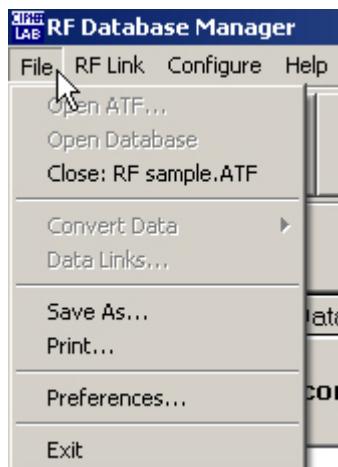
Menu Bar

The Menu Bar contains a number of menus that specify which task you want the system to perform. Each menu contains a list of commands and sometimes sub-menus.

Some of the options carry out commands immediately, and others display a window so that you can enter additional information. If an option is followed by [...], it will display a window. Otherwise, the command is carried out immediately.



File Menu



Command	To Do...
Open ATF	Open an existing application template file that was created by the RF Application Generator. <ul style="list-style-type: none">▪ ATF refers to "Application Template File".
Open Database RF Reading	If the database has been successfully created earlier, you can directly open it without having to open the application template first. <ul style="list-style-type: none">▪ When the previously opened template includes RF Reading only, the command is Open RF Reading.▪ When it includes Database or Database + RF reading, the command is Open Database.
Close: (ATF file name)	Close the current application template file.

Convert Data	Convert the source text data of a lookup file to database file. It allows up to three lookup files. <ul style="list-style-type: none">▪ Make sure that all required lookup files have been converted to database completely.▪ If the date/time stamps in the ATF have been defined, a dialog box will prompt to confirm whether the system is to generate the date/time stamp for the records automatically.
Data Links	It supports a variety of database types. Configure the Data Link properties and link to any legacy back-end database.
Save As	Save the current database to a new file either in database format (*.mdb) or in text format (*.txt).
Print	Print out data from the current database.
Preferences	Configure custom settings for security concerns and others.
Exit	Close the RF Database Manager program.

RF Link Menu



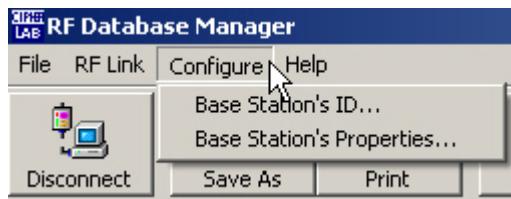
The RF terminal/s must connect to the host computer through the Base Station (master or standalone).

After a careful site survey, you may decide to have a number of base stations to form your RF network. In this case, the base station directly being connected to the host computer is called "Master"; the others are "Slave".

Command	To Do...
Connect	Enable the RS-232 connection between PC and the Base Station, so that the terminal/s can be connected.
Disconnect	Disable the RS-232 connection between PC and the Base Station, so that the terminal/s are disconnected.
Properties	Configure the COM port settings for the connection between the PC and the Base Station. <ul style="list-style-type: none">▪ Default settings: COM 1, 115200 bps, no flow control.

 Note: The number of the symbolic icons on the Device Bar reveals how many devices are currently connected.

Configure Menu



For more information, go to *Configuration* (on page 47) in the Demonstration Chapter.

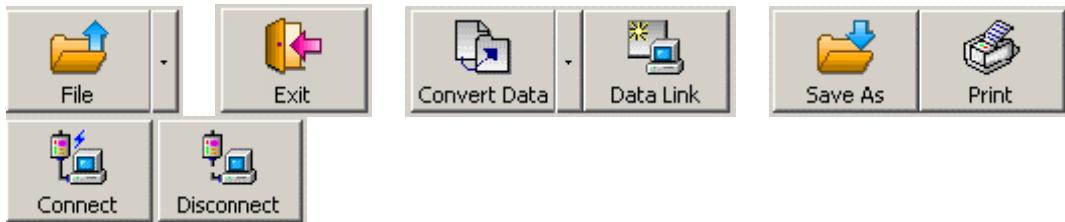
Command	To Do...
Base Station's ID	Configure the Base Station's ID.
Base Station's Properties	Configure the Base Station's properties.

Help Menu



Command	To Do...
About ATF File's Properties	Show properties of the application template file.
About RF Database Manager	Show information about the RF Database Manager program.

Main Toolbar



The Main Toolbar gives you quick access to available commands in current stage of application.

<u>This Button</u>	<u>Does The Same As This</u>
File > Open ATF	File > Open ATF
File > Open Database RF Reading	File > Open Database RF Reading
Exit	File > Exit
Convert Data	File > Convert Data
Data Link	File > Data Link
Save As	File > Save As
Print	File > Print
Connect	RF Link > Connect
Disconnect	RF Link > Disconnect



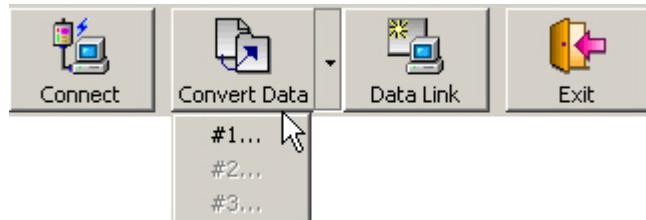
Note: The Convert Data button won't go away as long as there is more data (another lookup file) needs conversion.

1. Start with Open ATF

1.1



1.2



1.3



2. Start with Open Database

2.1



2.2



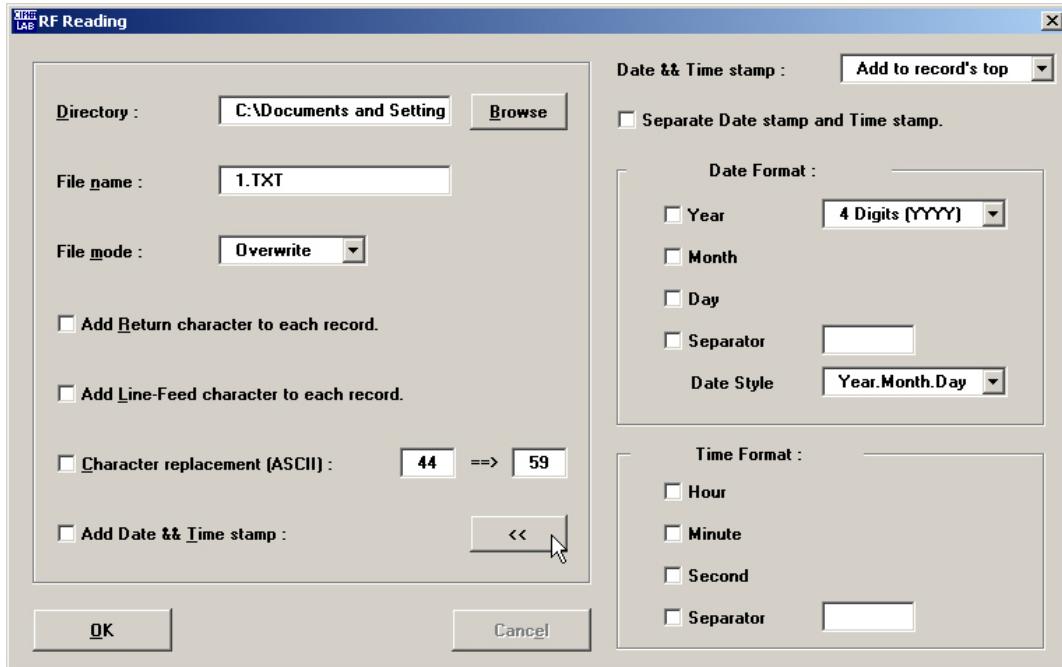
RF Reading Dialogue

When the application template file (ATF) includes a form that doesn't make reference to lookup files, the RF Reading dialog box pops up right after executing the Open ATF command.

After defining your RF Reading settings below, there appears the [RF Reading Toolbar](#) (on page 13) as well as the [RF Reading Tab](#) (on page 13).



Note: The data received can only be saved in text format (*.txt).



Option	To Do...
Directory	Specify where the data is to be saved by entering file path or click [Browse] to select a location.
File name	Enter file name.
File mode	Choose file mode: Overwrite, Append or New Name.
Add Return character	When selected, it will add Return character to each record.
Add Line-Feed character	When selected, it will add Line-Feed character to each record.
Character replacement (ASCII)	When selected, it will perform character replacement as specified. [Original value ==> New value]

- Add Date & Time stamp** When selected, it will add system date and/or time stamp to each record.
Click [>>] to open system date and time settings.

RF Reading Toolbar

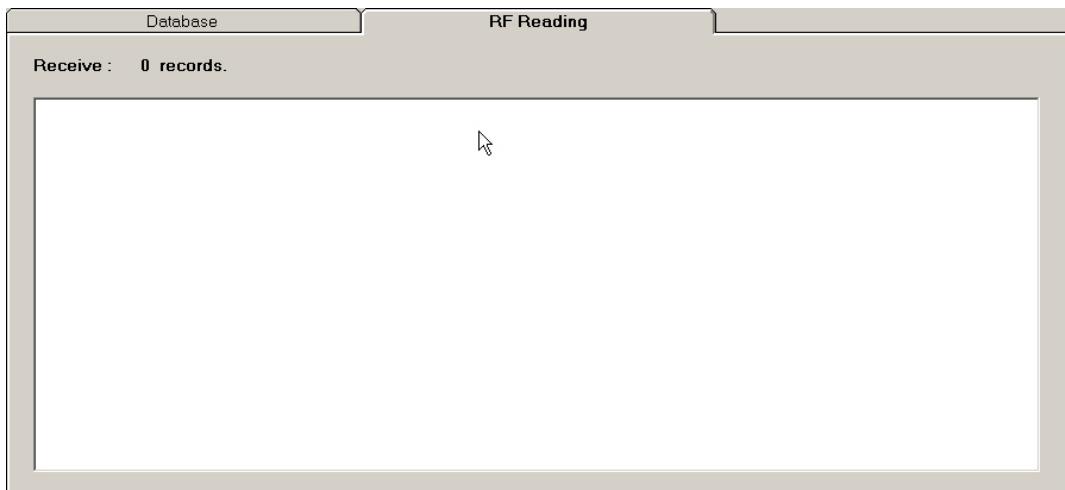
This RF Reading Toolbar appears after configuring the RF Reading setting.



Button	To Do...
Setting	To re-define the RF Reading setting.
Stop Start	To stop start the recording of the received data.

RF Reading Tab

This RF Reading Tab appears after configuring the RF Reading setting.



Note: The Save As and Print commands are not accessible.

Editing Toolbar

After executing one of these commands to create a database, you can use the Editing Toolbar to manage the received data manually.

- Convert Data
- Open Database
- Data Link



Button	To Do...
Add	To add a record to the database.
Edit	To edit the data of the selected record.
Delete	To delete the selected record.
Find	To search the database according to the specified key field.
Sort	To sort the records based on the specified key field by ascending or descending.

Device Bar

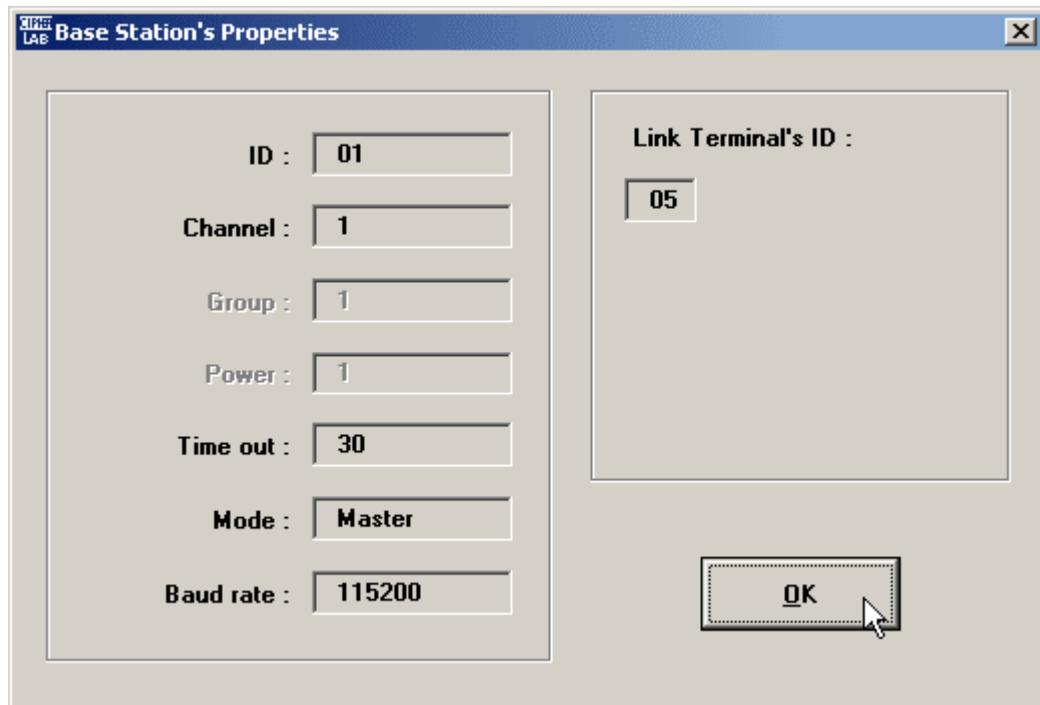


The icons on the Device Bar quickly inform you how many devices are currently connected.

Move your cursor near to a symbolic icon, and the information of its identification number will appear.

Button	To Do...
Base Station	To view Base Station's properties and the terminal/s connected to it. <ul style="list-style-type: none">▪ This button does almost the same as Configure > Base Station's Properties, except for the information on linked terminal's ID.
Terminal	Simply show the terminal ID when moving your cursor closer to the icon. <ul style="list-style-type: none">▪ No further information by clicking.

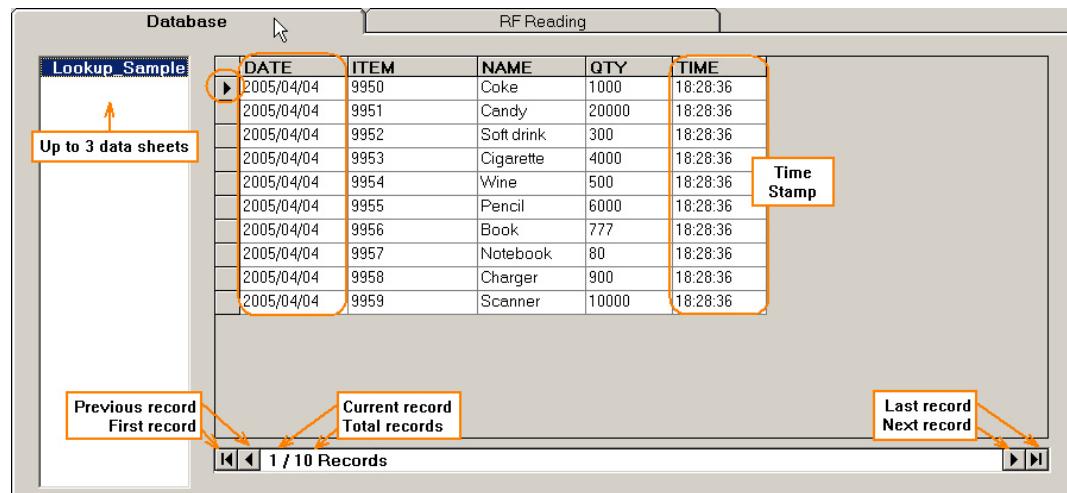
- Click the Base Station's icon, and it will also list all the terminal/s currently being linked to it.



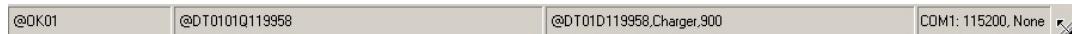
Database Tab

The Database Tab lists up to three data sheets. You may click on any record, and then click the editing tools to edit it.

- On the right pane of the database window, you'll find the triangular indicator (►) points toward the current entry of record. You may click on any other entry to move the indicator, and then proceed to edit the record.
- On the bottom of the database content is a horizontal scroll bar. You may use the right/left scroll arrows (◀ and ▶) to scroll through the list of records.



Status Bar



The Status Bar is located at the bottom of the application window. It gives information on the activities between the host computer and the Base Station.

Message Column	Gives Information On...
@OK01	Command received from the Base Station.
@DT0101Q119958	Data received from the Base Station.
@DT01D119958,Book,777	Command or data sent out from the local port.
COM1: 115200, None	Local COM port properties when it is open. It will show "COM Properties" when the COM port is closed.

CHAPTER 3

Demonstration

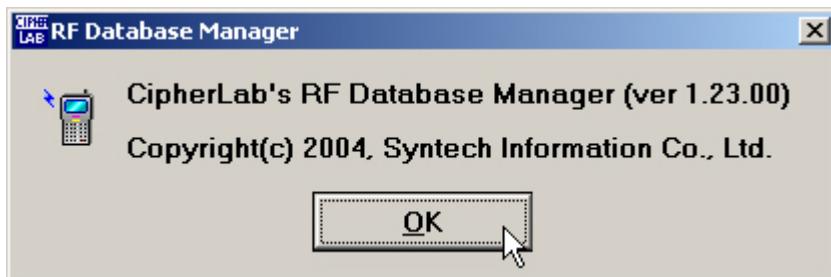
This chapter gives more information on how to use the RFDBManager in your application.

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Execute Program

- 1 Execute the RF Database Manager program.
- 2 The version and copyright information pops up. Click [OK] to proceed.



- 3 The application window pops up.

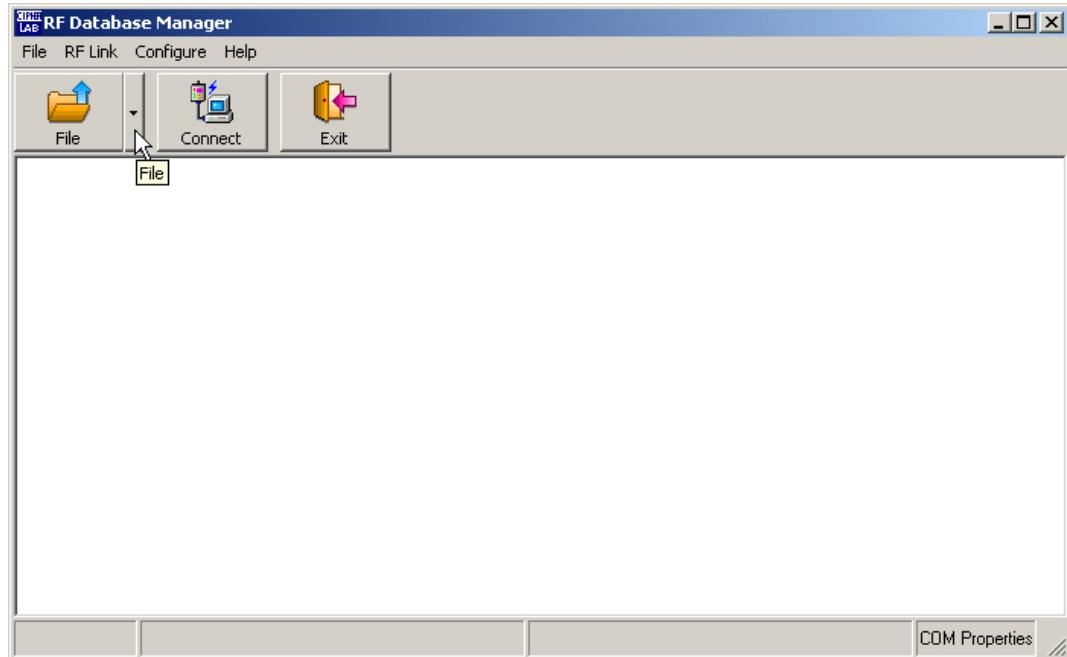
General Application Window

In this stage, available functions are accessible in the Main Toolbar. For the same function, you may click the drop-down menu from the Menu Bar as well.

- [Start with Open ATF](#) (on page 20): Click [File] and choose [Open ATF] to open the application template file.
- [Start with Open Database](#) (on page 45): Click [File] and choose [Open Database] to open the previously created database.
- Click [Connect] to open the COM port.
- Click [Exit] to end the program.



Note: The application template file (ATF) has to be defined properly with the Application Generator before you can make use of it with the RF Database Manager.

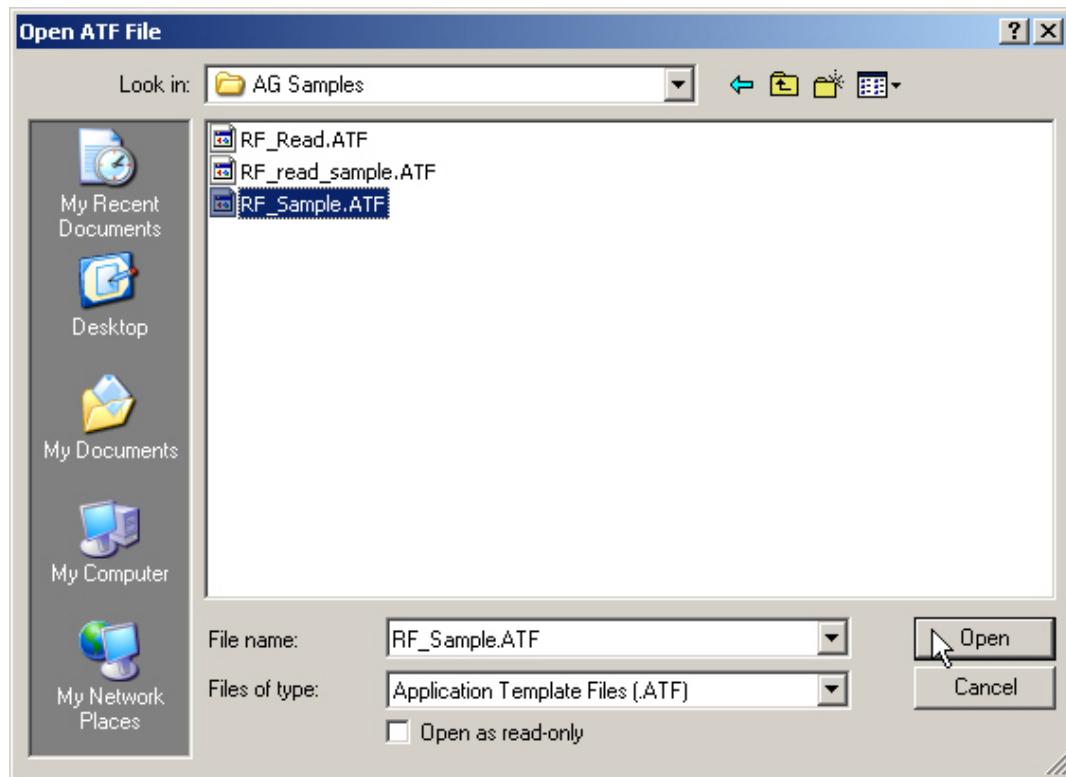


Start with Open ATF

- 1 Click [Open ATF] to start with a new application template file.

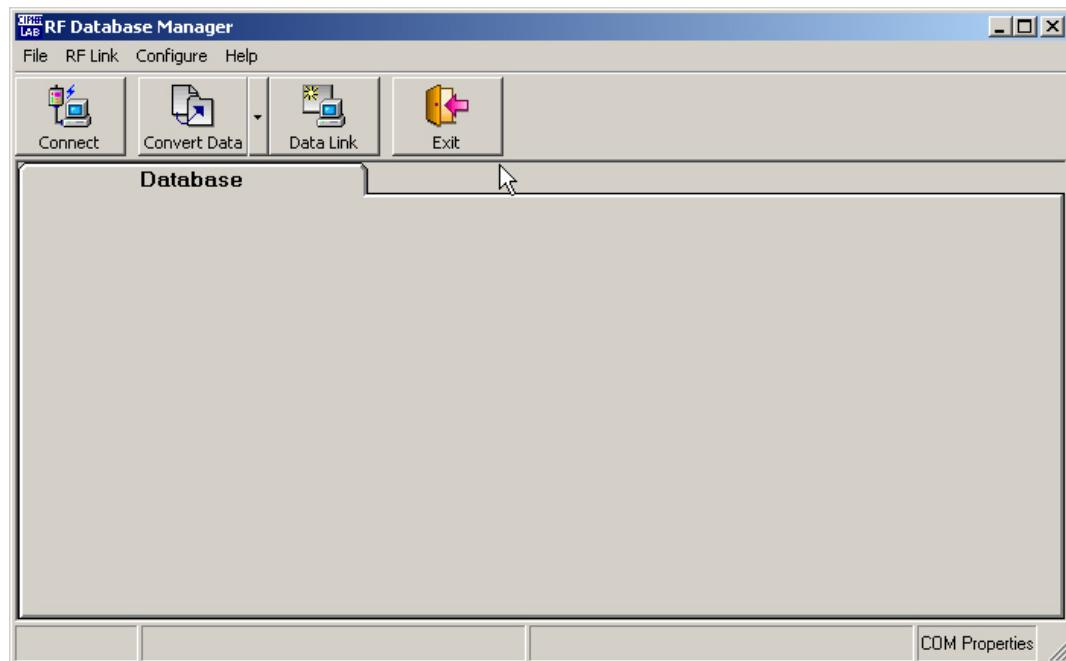


- 2 The following window pops up for specifying file path. When the file is located, click [Open].



- 3 Now the application window is as shown below.

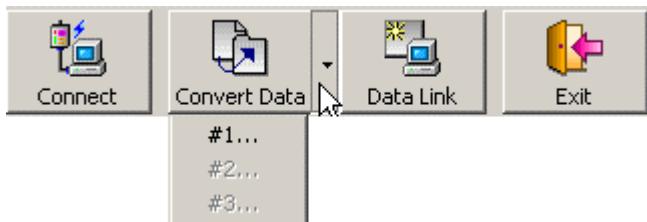
If the application template file (ATF) includes a form that specifies none for its lookup properties, the [RF Reading dialog box](#) (on page 12) will appear.



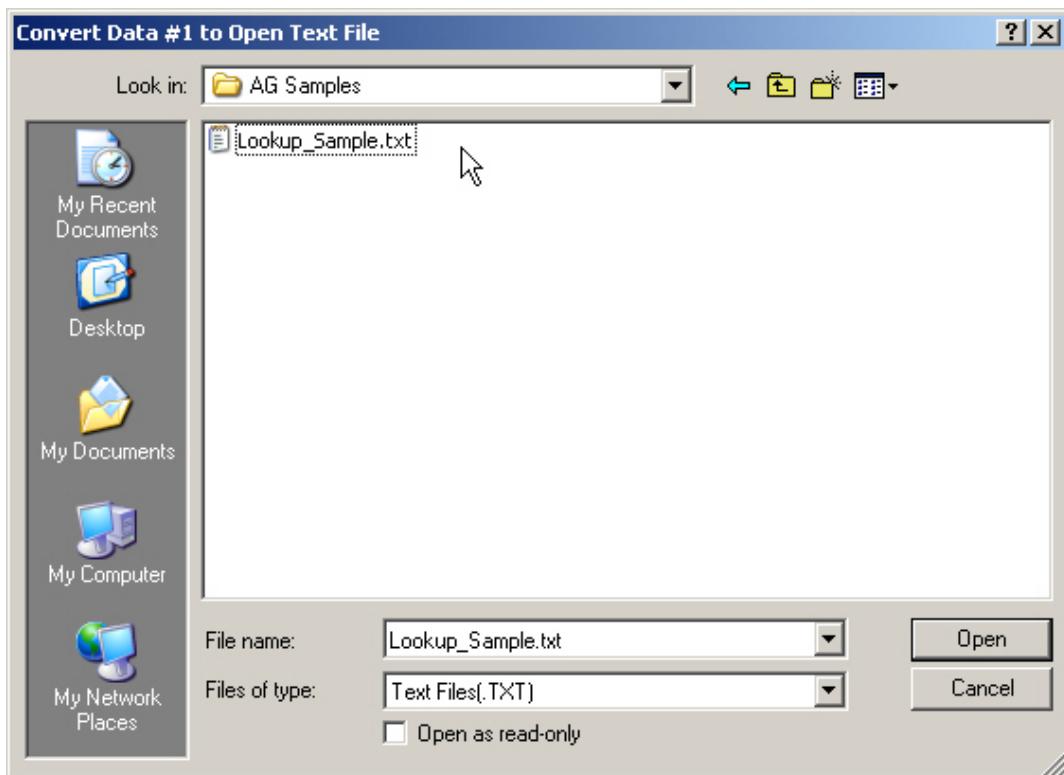
- 4 Proceed to click [Convert Data] to import text file, or click [[Data Link](#)](on page 25) for access to a custom database

Convert Data

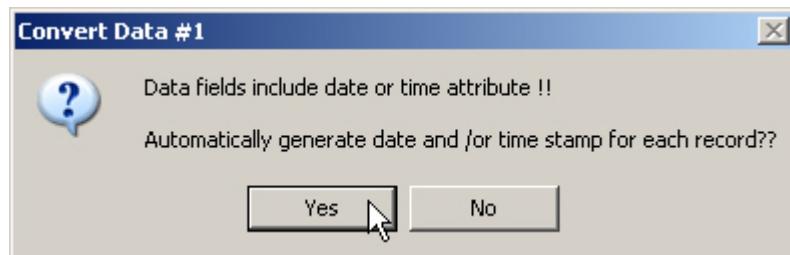
- 1 Click [Convert Data] to convert lookup text file into data sheet. Because up to three lookup files are allowed in the application template, you'll have to make sure all of them are imported to our database here.



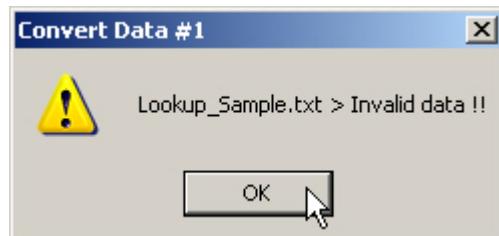
- 2 The following window pops up for specifying file path. When the file is located, click [Open].



- 3 The application template may specify that the lookup file's data fields include date or time attribute.



- For the system to generate date and/or time stamp for each record, click Yes.
- If the date and/or time stamp has been joined to the text file, simply click No to proceed.
- If the text file includes no date and/or time stamp, an error message is generated when you click No.



Note: The Convert Data button won't go away as long as there is more data (another lookup file) needs conversion.

At last, the application window shows data records in the data file tab (Database tab).

	DATE	ITEM	NAME	QTY	TIME
▶	2005/04/07	9950	Coke	1000	11:57:56
	2005/04/07	9951	Candy	20000	11:57:56
	2005/04/07	9952	Soft drink	300	11:57:56
	2005/04/07	9953	Cigarette	4000	11:57:56
	2005/04/07	9954	Wine	500	11:57:56
	2005/04/07	9955	Pencil	6000	11:57:56
	2005/04/07	9956	Book	777	11:57:56
	2005/04/07	9957	Notebook	80	11:57:56
	2005/04/07	9958	Charger	900	11:57:56
	2005/04/07	9959	Scanner	10000	11:57:56

Refer to ATF

You may click [Help] on the Menu Bar and select [About ATF File's Properties] to view the settings of the template file. It reveals the relationship between the application template and the RF Database Manager.

In the Application Generator's template:

1st lookup file

2nd lookup file

3rd lookup file

In the RF Database Manager:

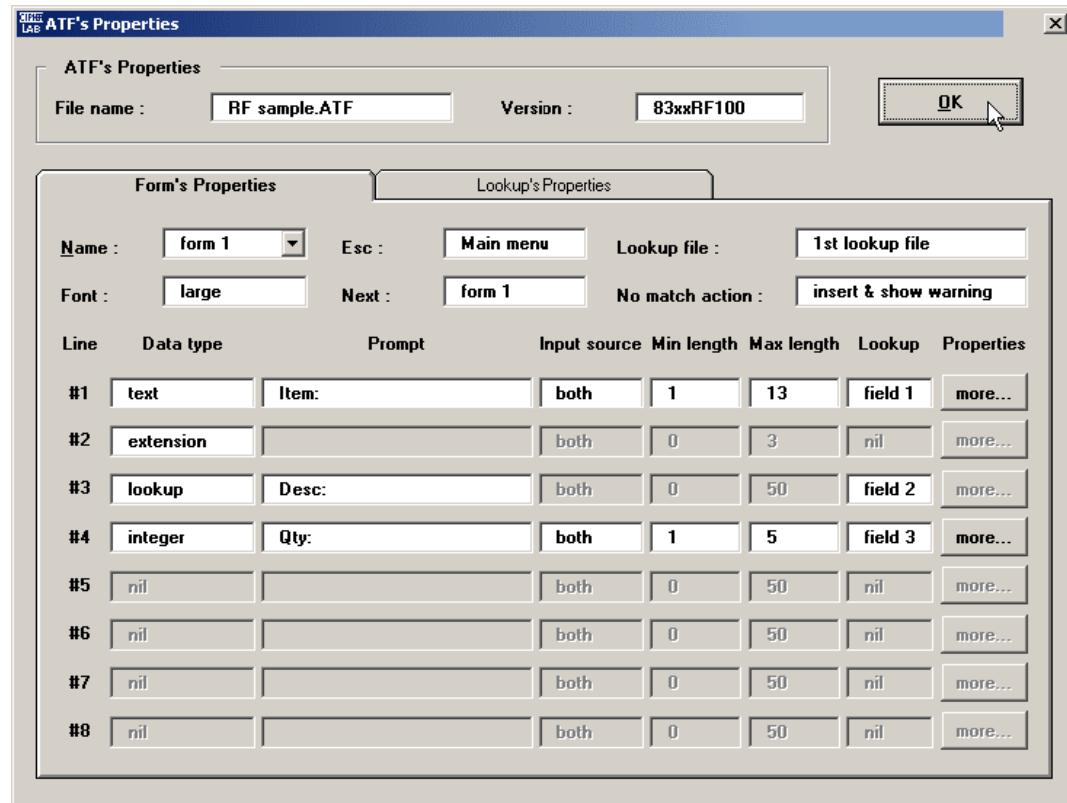
Convert Data > data sheet #1

Convert Data > data sheet #2

Convert Data > data sheet #3



Note: The ATF's properties cannot be changed here.

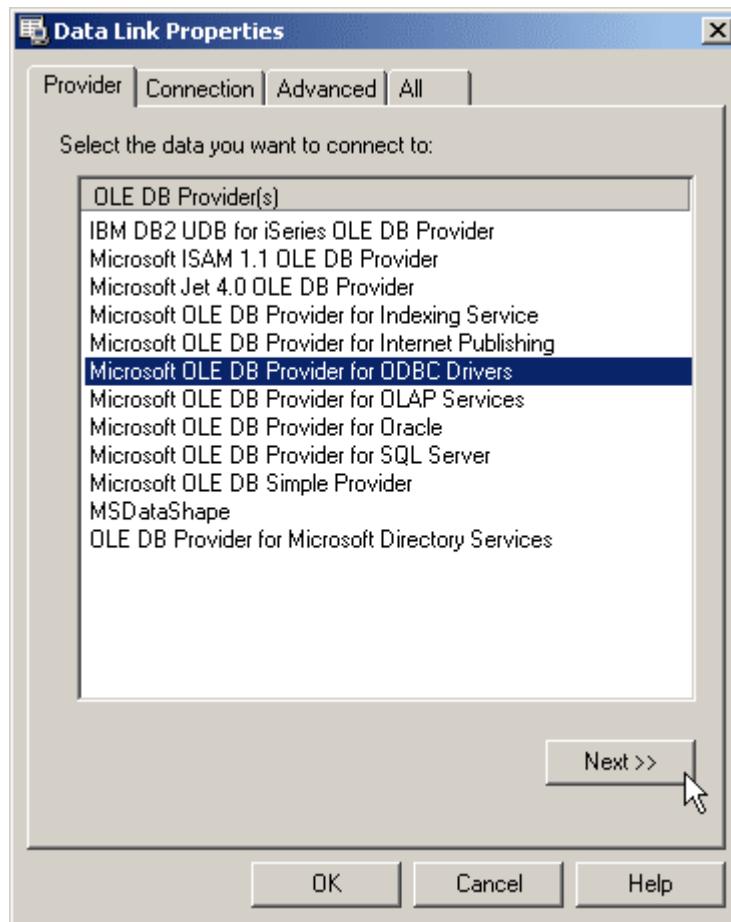


Data Link

- 1 Click [Data Link] for link to a custom database.
- 2 The Data Link Properties box pops up for configuration.
- 3 In the Provider tab, select your OLE DB provider. See the following sections for details.
For example, a number of connection options for three major database types are available.

Access Database (on page 26)	▪ Microsoft Jet 3.51 OLE DB Provider
	▪ Microsoft Jet 4.0 OLE DB Provider
	▪ Microsoft OLE DB Provider for ODBC Drivers

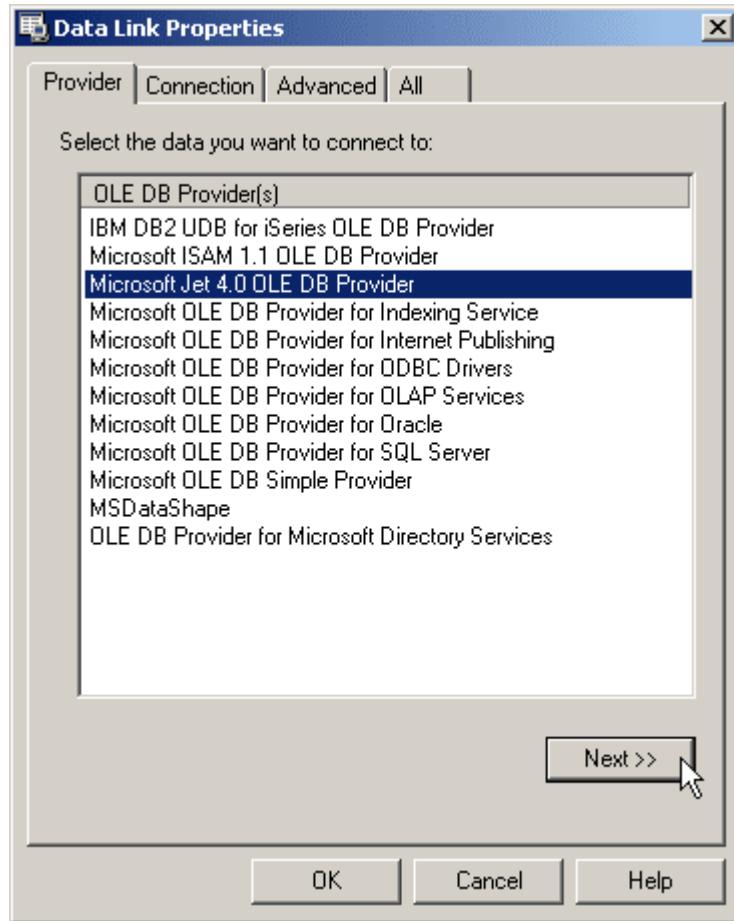
FoxPro Database (on page 35)	▪ Microsoft OLE DB Provider for ODBC Drivers
SQL Server (on page 41)	▪ Microsoft OLE DB Provider for SQL Server.



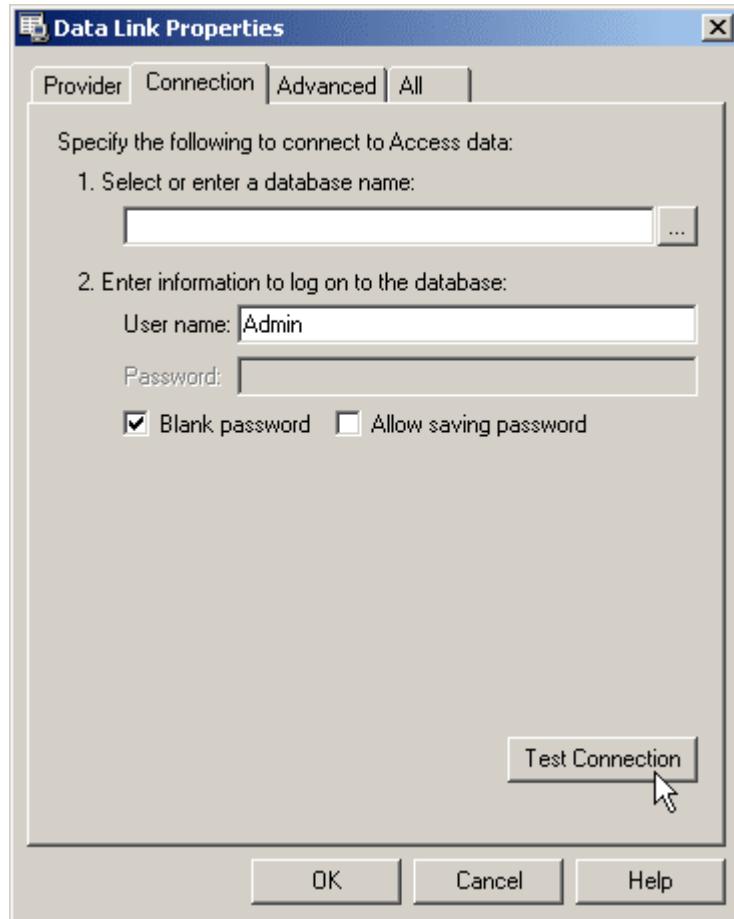
Access Database

➤ Microsoft Jet 4.0 OLE DB Provider

- 1 In the Provider tab, select [Microsoft Jet 4.0 OLE DB Provider].
- 2 Click [Next >>].



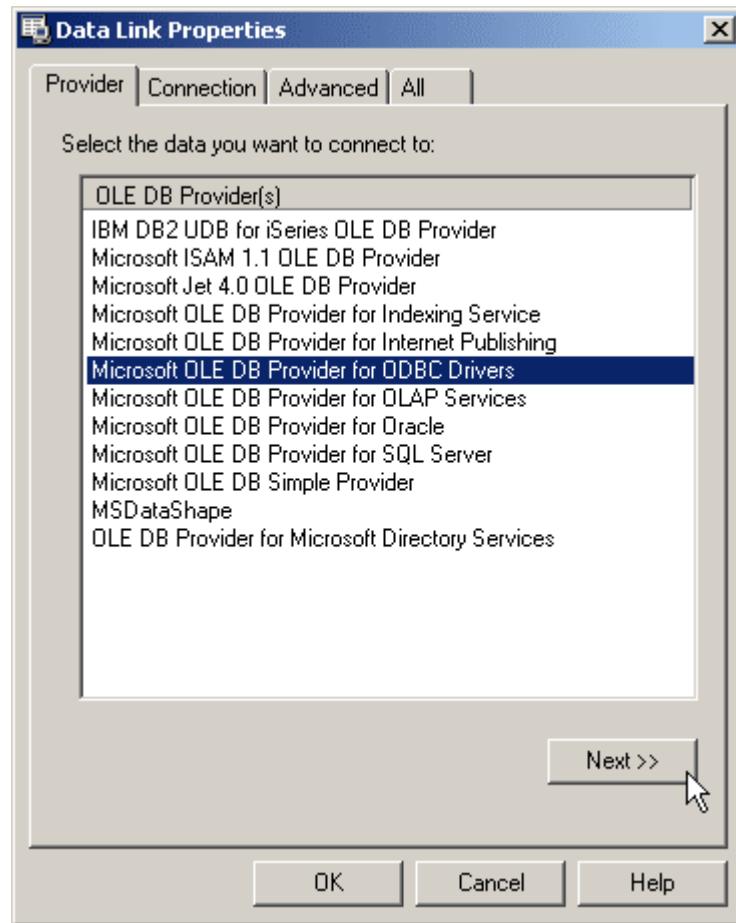
- 3 In the Connection tab, specify the name of target database (Microsoft Access Database: *.mdb) and provide other required information.
- 4 Click [Test Connection] to verify connection.
- 5 Click [OK] when initial connection is set up successfully.



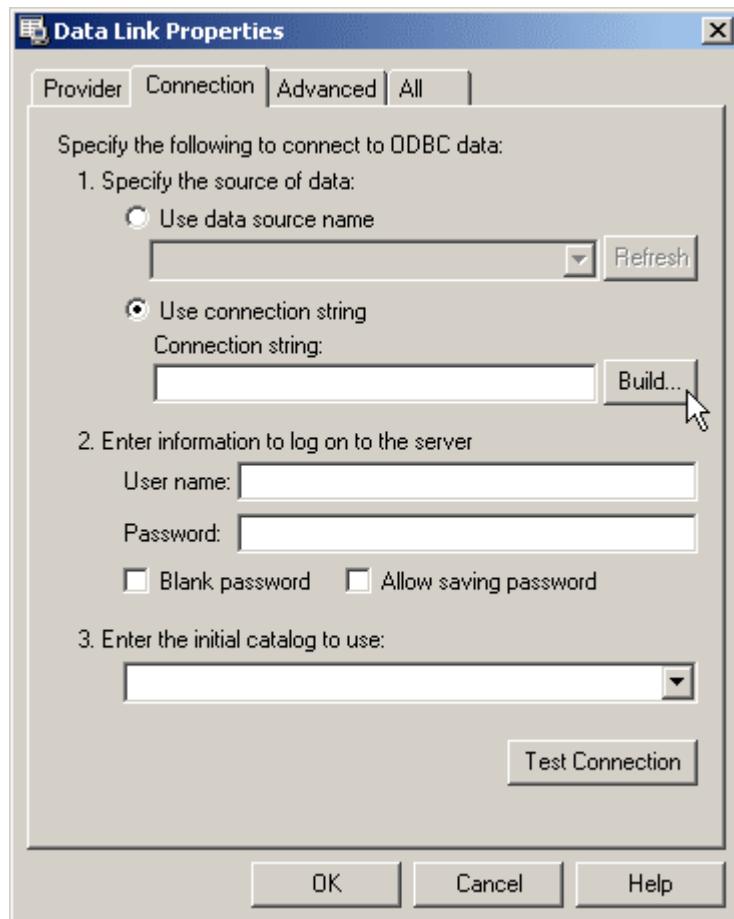
Note: Apply the same procedures for Microsoft Jet 3.51 OLE DB Provider.

➤ Microsoft OLE DB Provider for ODBC Drivers

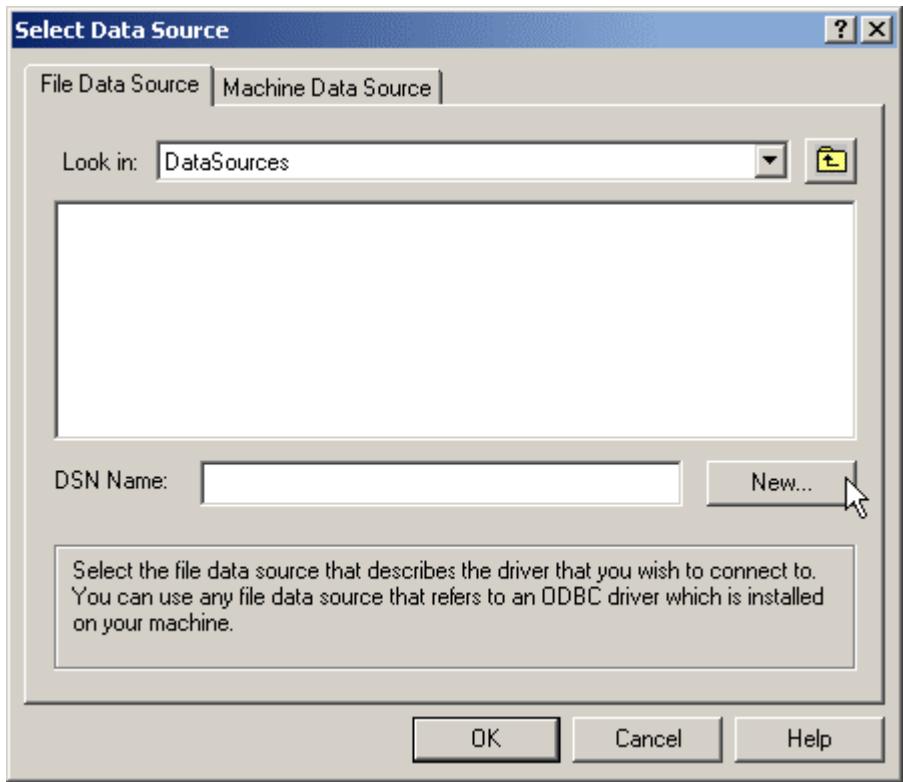
- 1 In the Provider tab, select [Microsoft OLE DB Provider for ODBC Drivers].
- 2 Click [Next >>].



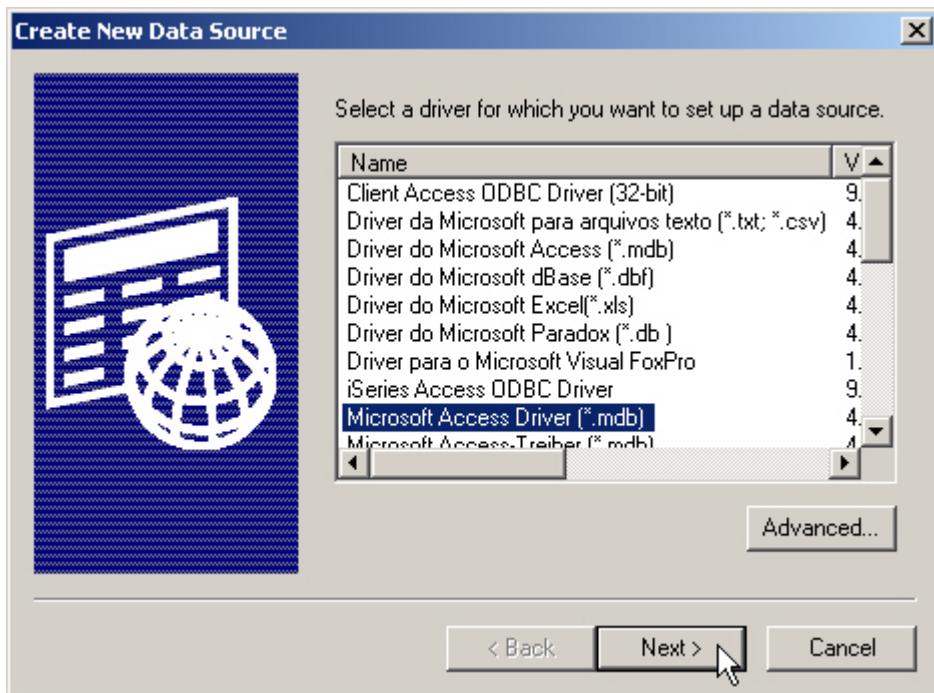
- 3 In the Connection tab, select [1. Specify the source of data: Use connection string] and provide other required information.
- 4 Click [Build] to select data source.



- 5 In the File Data Source tab, click [New] to create new data source.



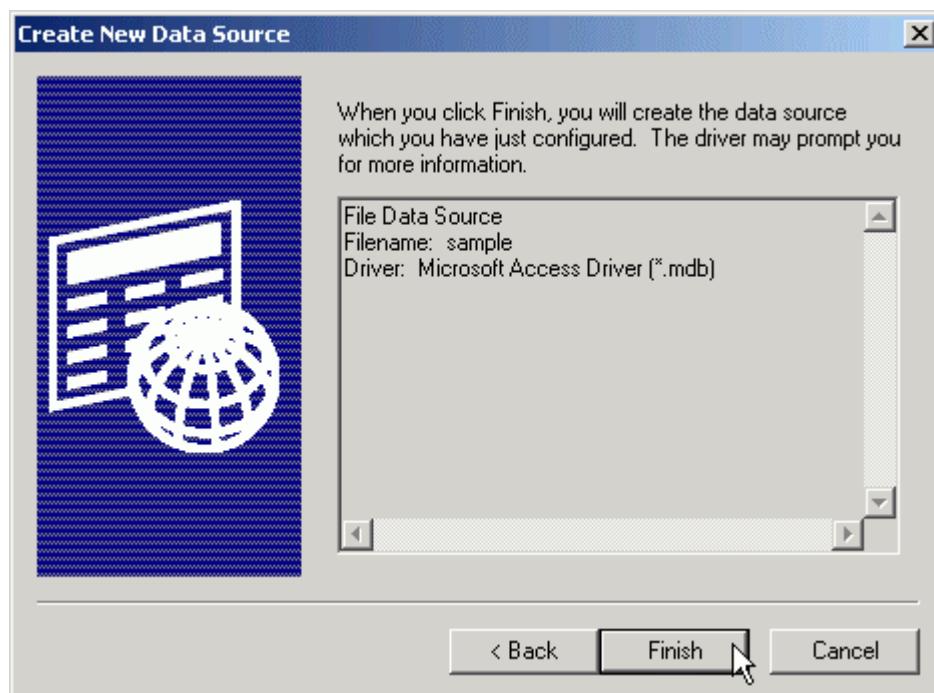
- 6 Select [Microsoft Access Driver (*.mdb)] as the driver for your data source.
7 Click [Next].



- 8 Specify the name of the file data source (ODBC File Data Source: *.DSN).
- 9 Click [Next].



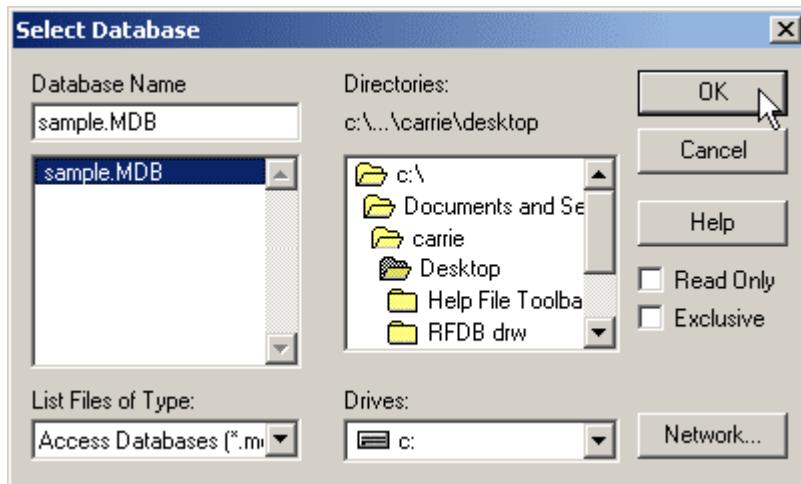
- 10 Click [Finish] when the configuration of database is completed.



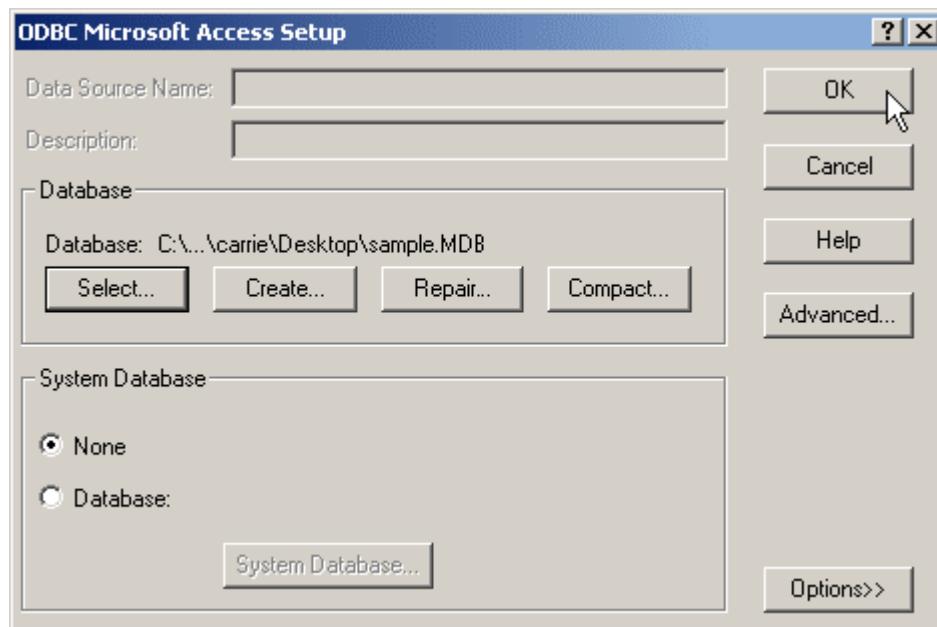
11 In the ODBC Microsoft Access Setup dialog box, click [Select] to select a database.



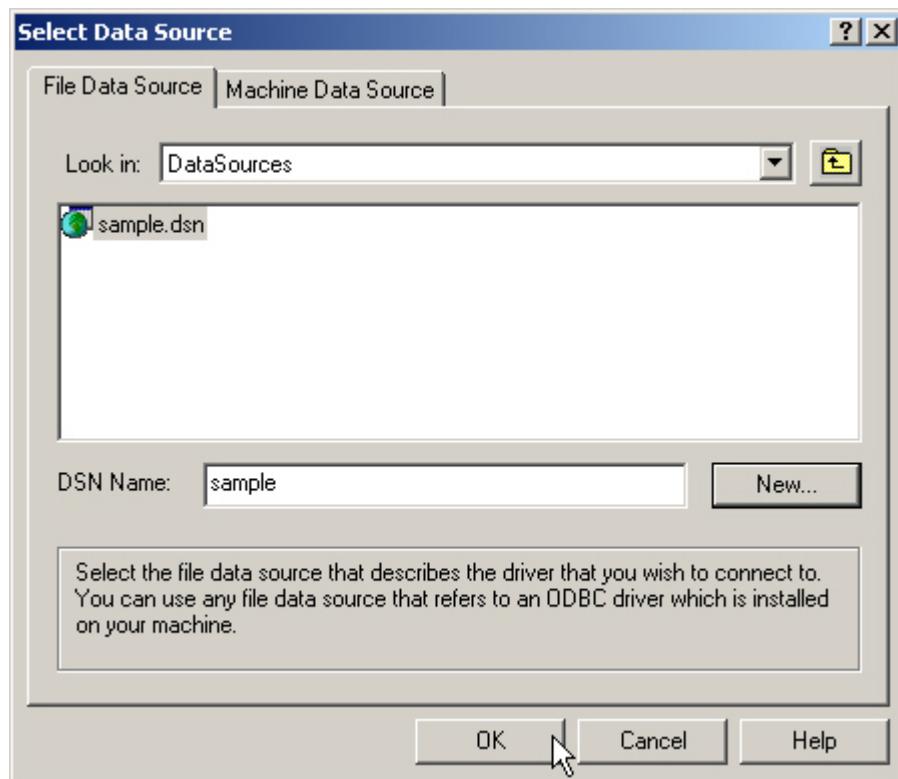
12 Specify the database you want to connect to, and then click [OK].



- 13 Click [OK] in the ODBC Microsoft Access Setup dialog box.



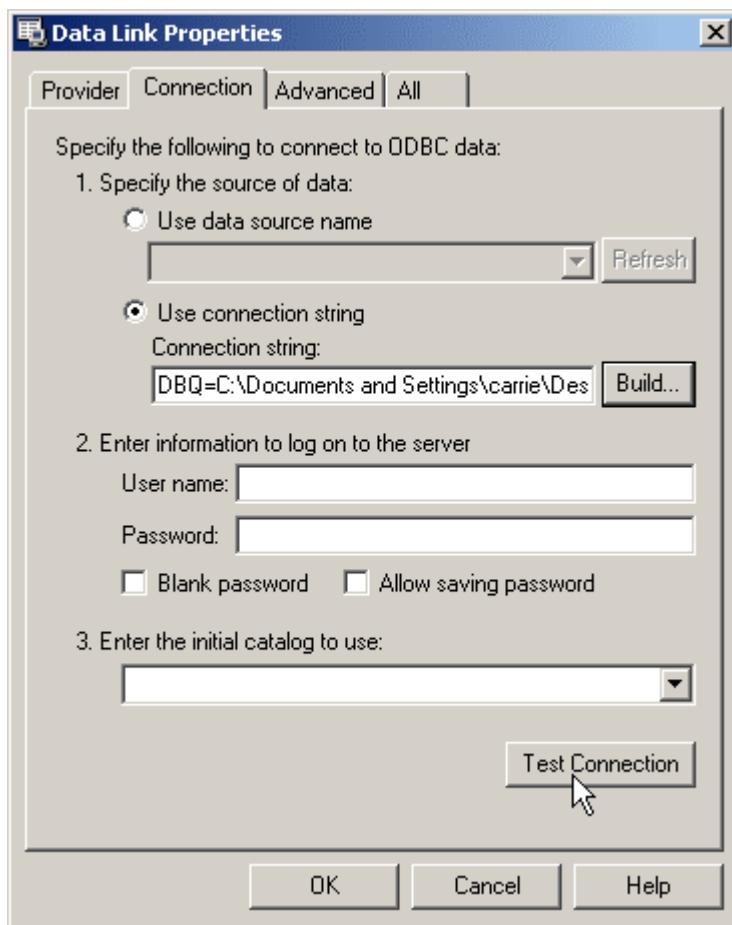
- 14 Click [OK] when the file data source is correct.



15 Again, click [OK] in the ODBC Microsoft Access Setup dialog box.

16 Click [Test Connection] to verify connection.

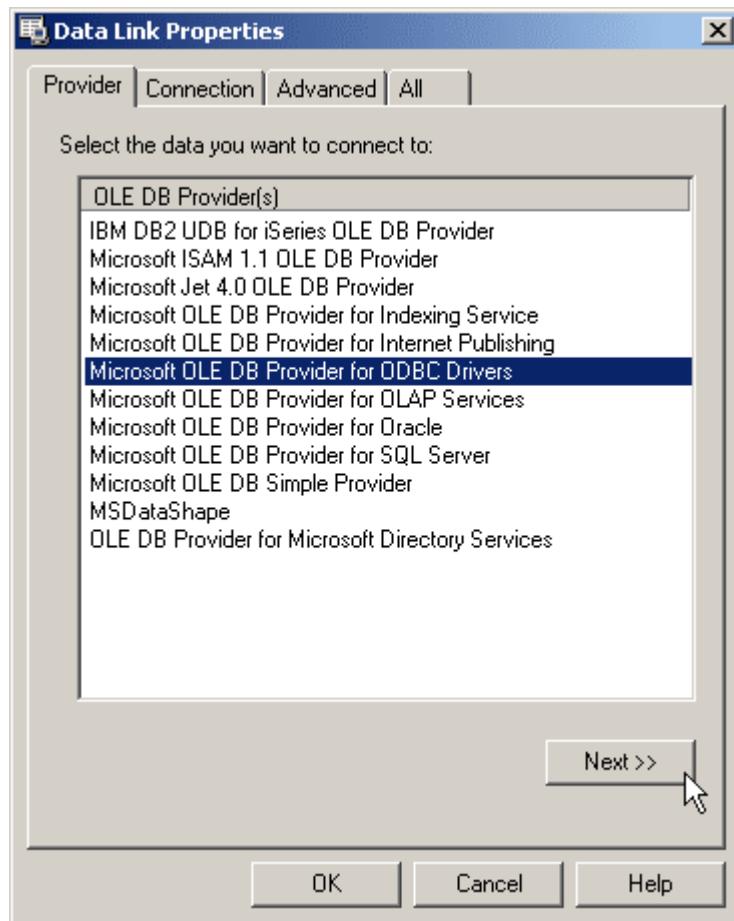
17 Click [OK] when initial connection is set up successfully.



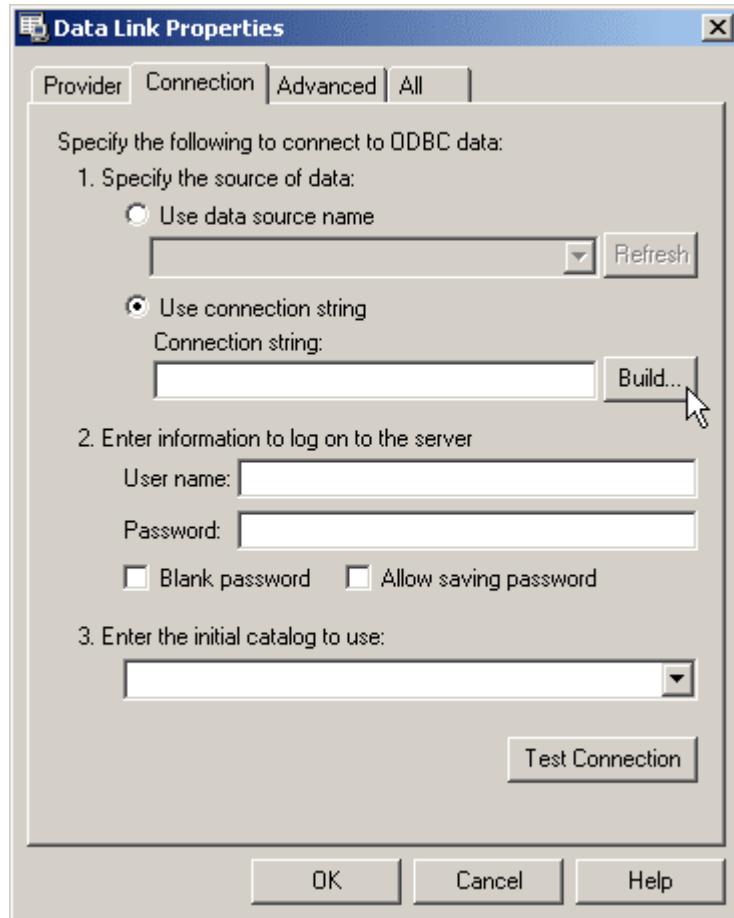
18 Go to [Map Lookup File](#) (on page 43).

FoxPro Database

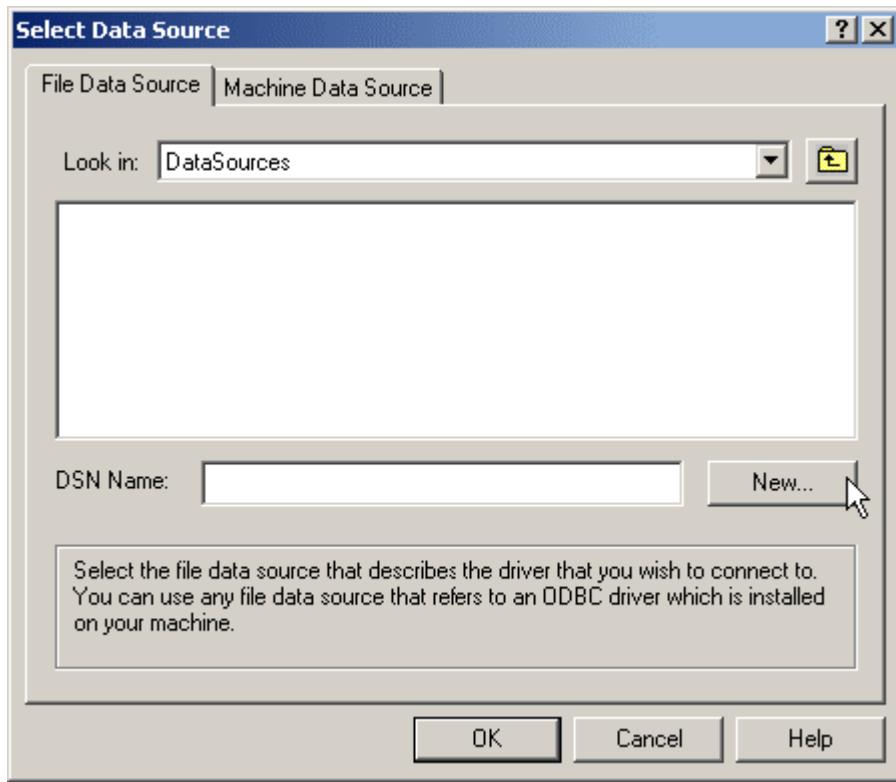
- 1 In the Provider tab, select [Microsoft OLE DB Provider for ODBC Drivers].
- 2 Click [Next >>].



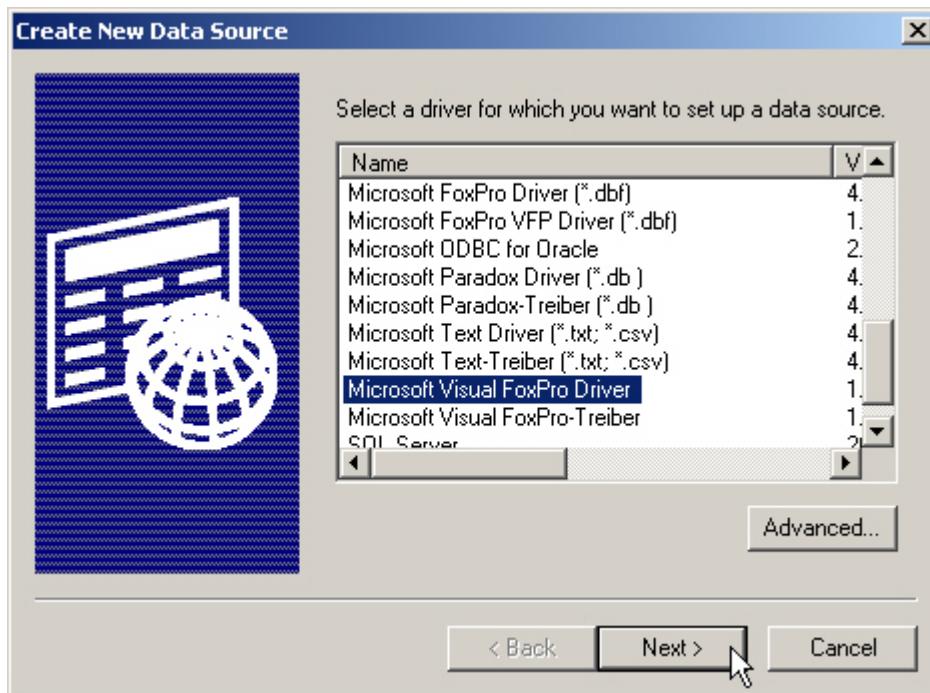
- 3 In the Connection tab, select [1. Specify the source of data: Use connection string] and provide other required information.
- 4 Click [Build] to select data source.



- 5 In the File Data Source tab, click [New] to create new data source.

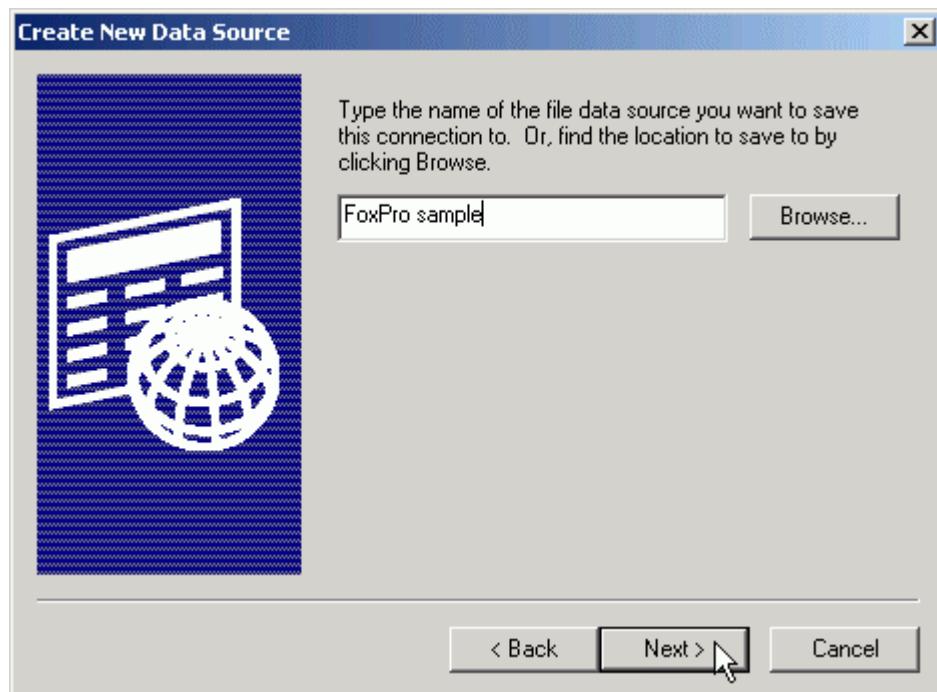


- 6 Select [Microsoft Visual FoxPro Driver] as the driver for your data source.
7 Click [Next].

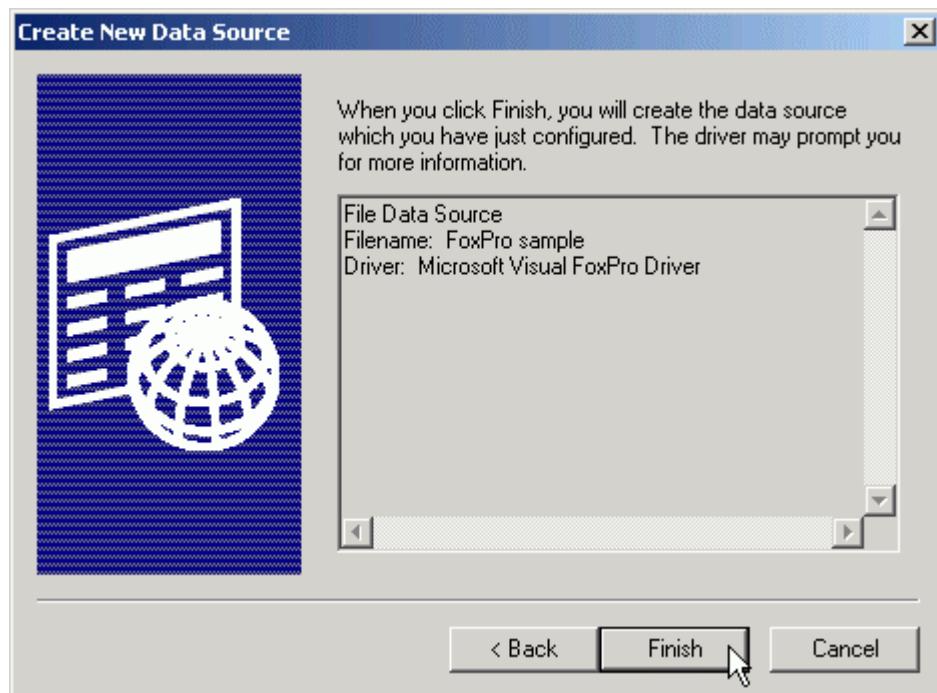


8 Specify new data source (ODBC File Data Source: *.DSN).

9 Click [Next].



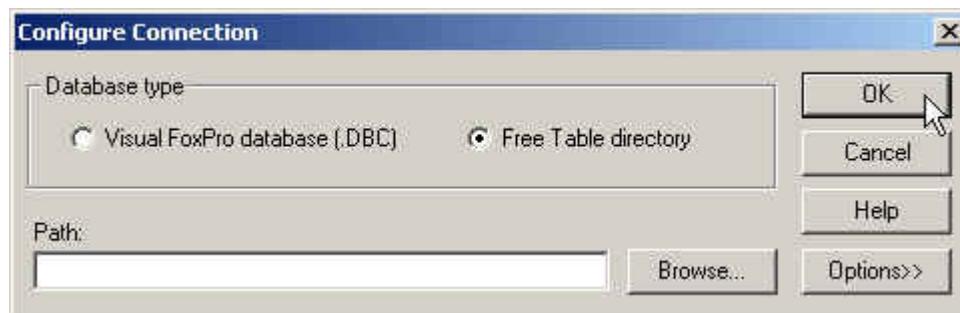
10 Click [Finish] when the configuration of database is completed.



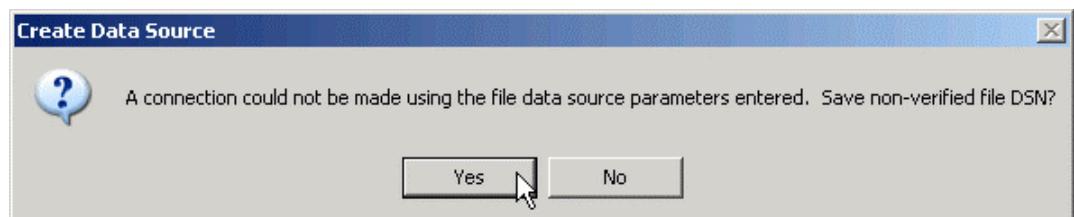
11 In the Configure Connection dialog box, select [Free Table directory].

12 Specify the database you want to connect to.

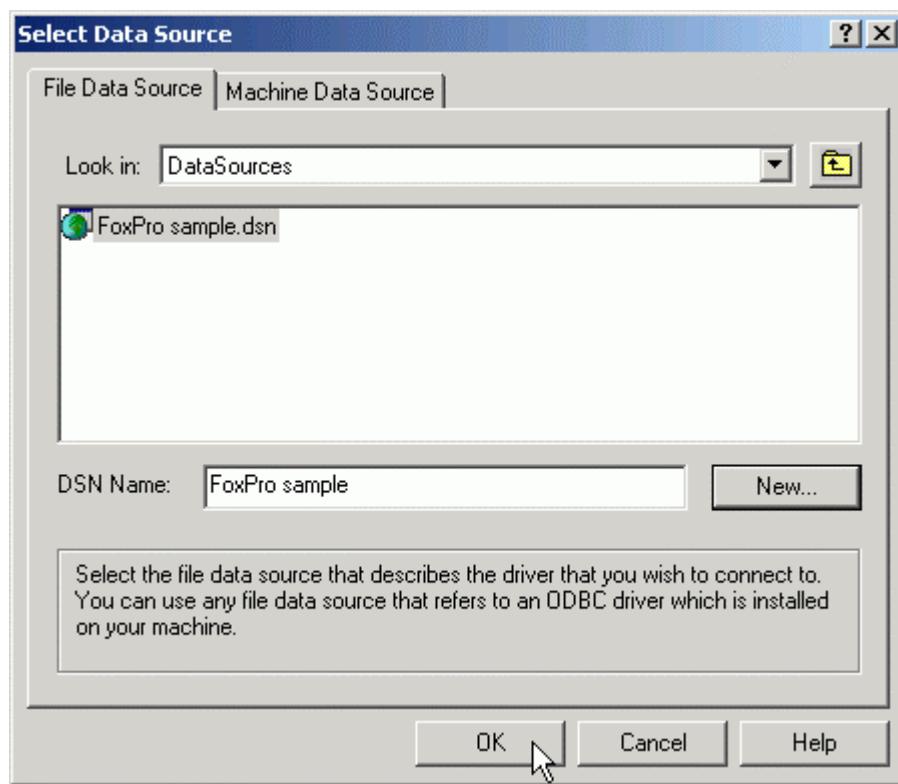
13 Click [OK].



14 Click [OK] when the data source is created.



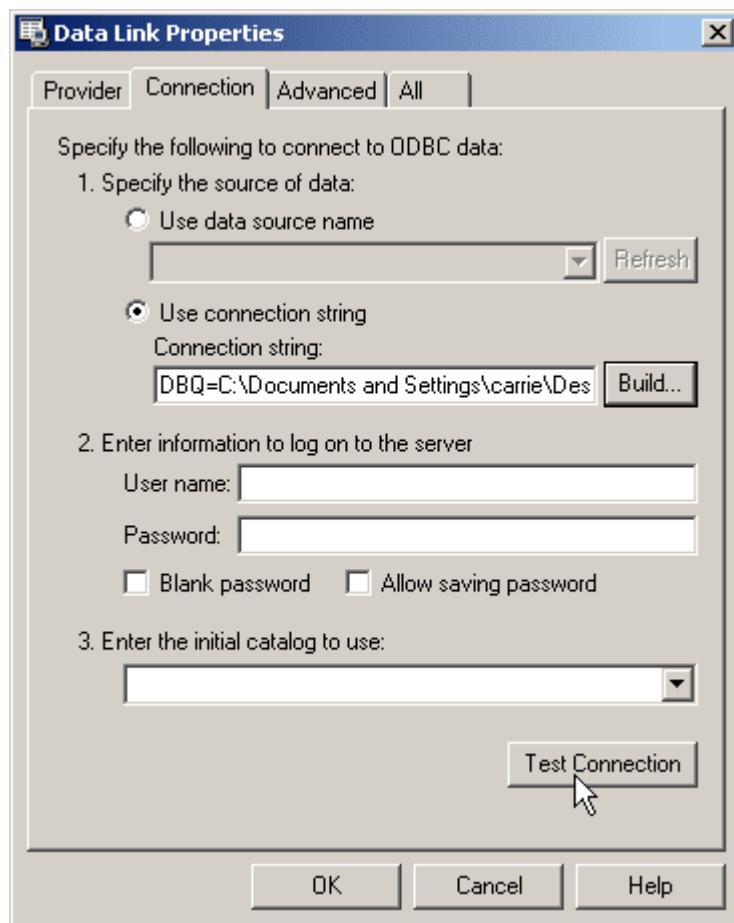
15 Click [OK] when the file data source is correct.



16 Again, click [OK] in the Configure Connection dialog box.

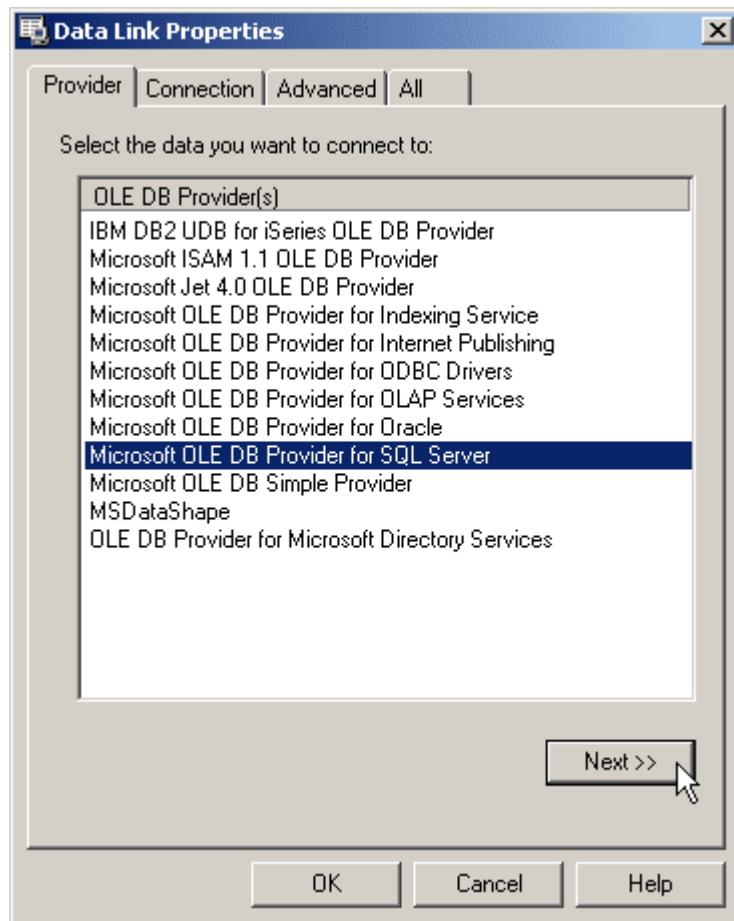
17 Click [Test Connection] to verify connection.

18 Click [OK] when initial connection is set up successfully.

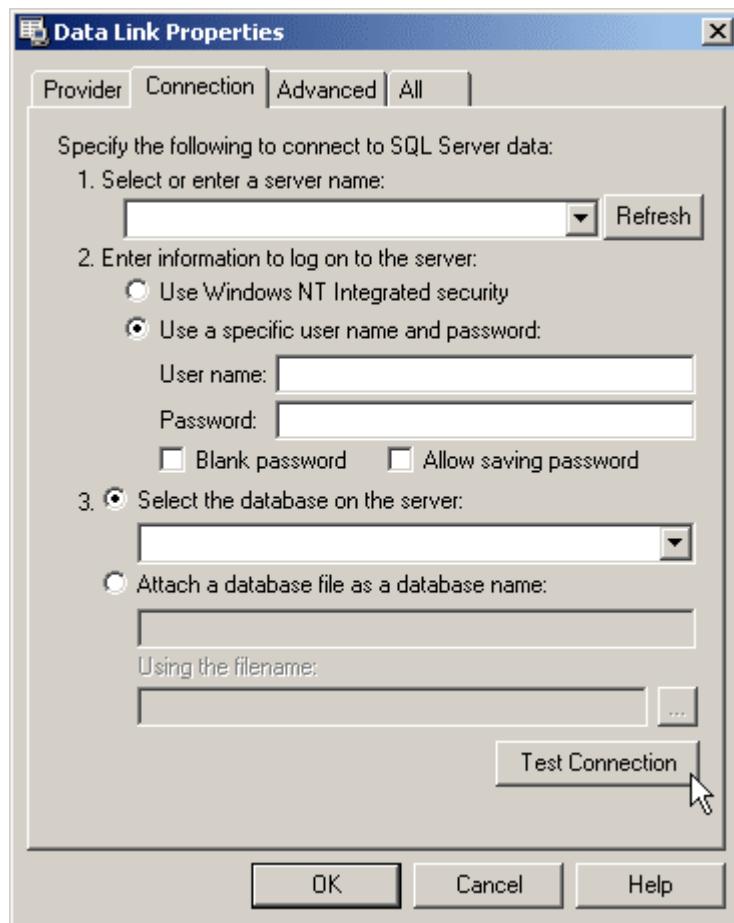


SQL Server

- 1 In the Provider tab, select [Microsoft OLE DB Provider for SQL Server].
- 2 Click [Next >>].

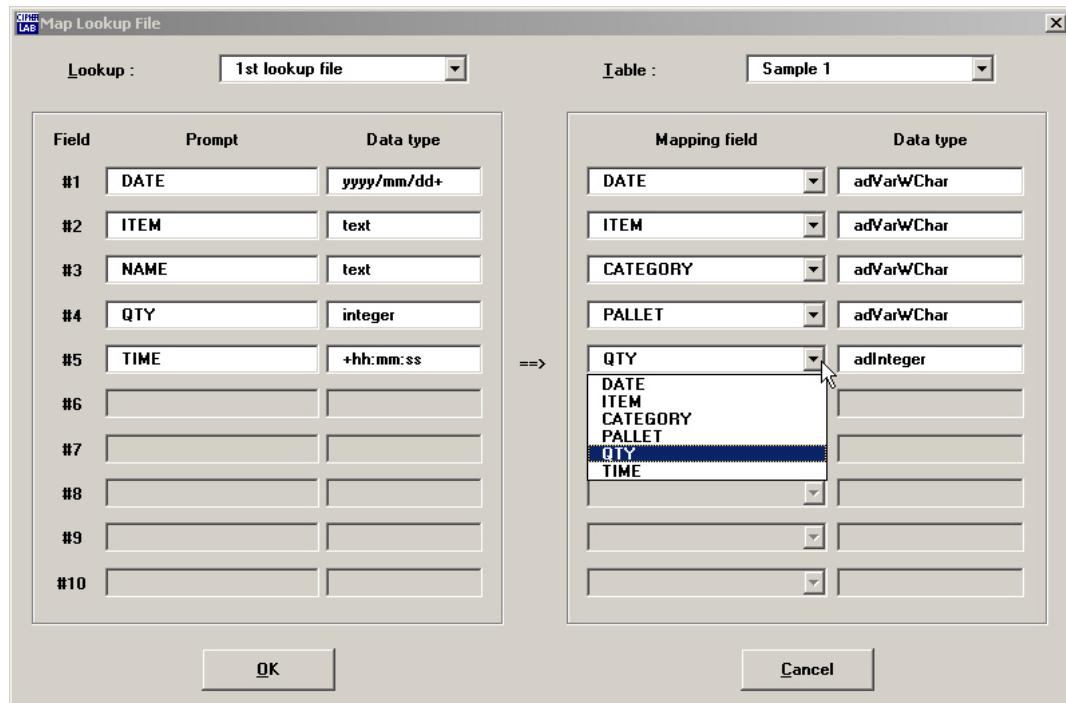


- 3 In the Connection tab, provide required information.
 - 1. Select or enter a server name
 - 2. Enter information to log on to the server
 - 3. Select the database on the server
- 4 Click [Test Connection] to verify connection.
- 5 Click [OK] when initial connection is set up successfully.



Map Lookup File

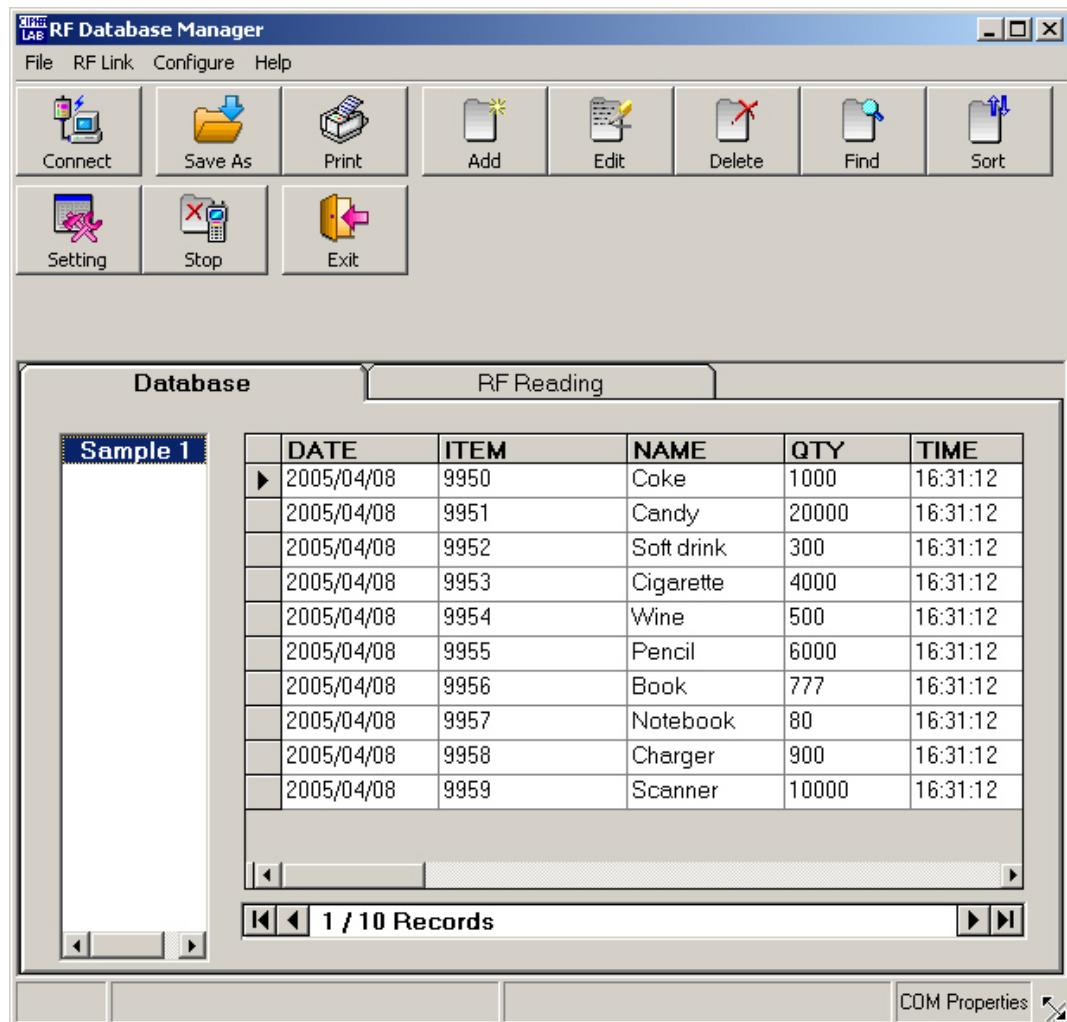
- 1 When being connected to database, make sure the mapping between the database and lookup file is correct.
 - The table (i.e. Sample 1) of database is mapped to the lookup file specified in the application template (ATF).
 - The database fields are automatically mapped to the data fields of the lookup file.



- 2 If your database file doesn't have as many fields as the lookup file does, the following message will pop up.



- 3 When data is mapped correctly, click [OK]. Data link to back-end database is set up successfully.

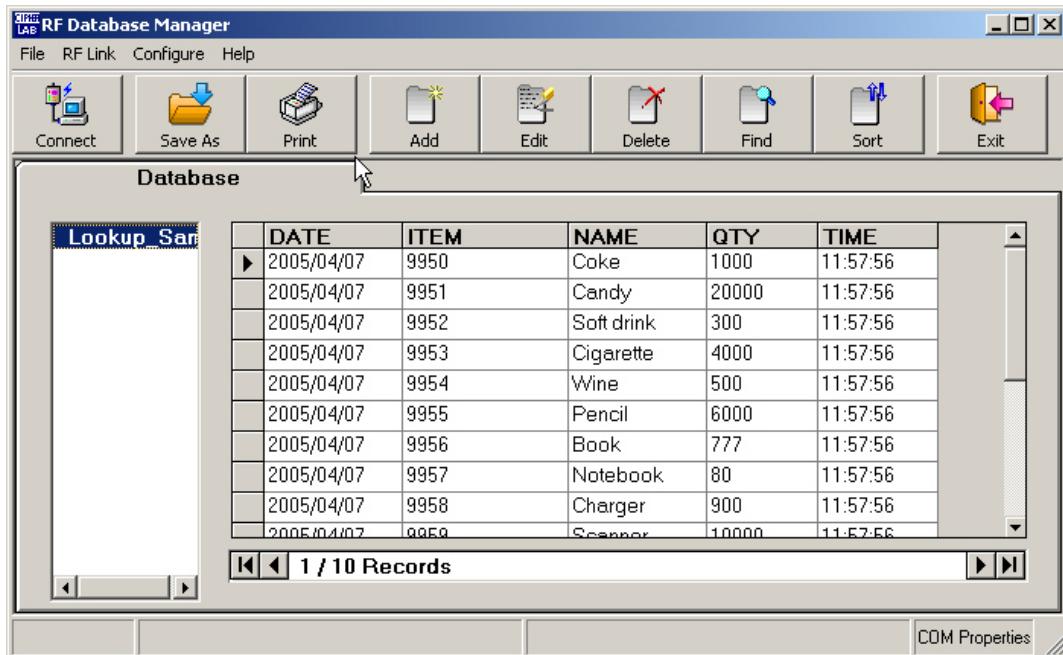


Start with Open Database

- 1 If the target database has been created earlier, you may simply click [Open Database].



- 2 The application window shows data records in the Database tab.



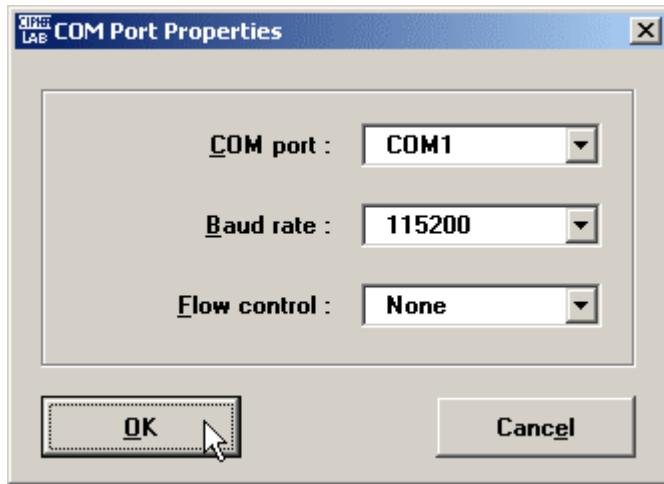
Note: Apply the same procedures for executing the Open RF Reading command.

Set up Connection

- 1 Click [Connect] to open the COM port.



- 2** If the COM port has not yet been configured, the COM Port Properties setting box will pop up first. Click [OK] after configuration.



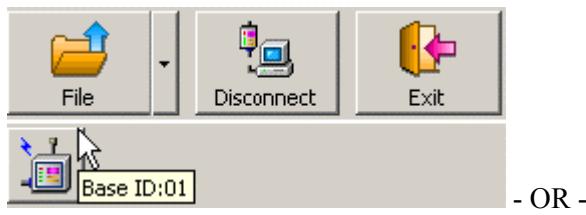
- 3** The COM port properties will be shown on the Status Bar when it is opened.



- 4** If the master (or standalone) Base Station has not been physically connected to the computer via RS-232 cable and powered on, the RF Link dialog box will pop up to remind you. Click [OK] when physical connection is set up.



- 5** The system will auto detect any connected Base Station and/or terminal, and display symbolic icons on the Device Bar.



- OR -



Configuration

To set up RF link between terminal(s) and the host computer, properties of the target Base Station (master or standalone) must be configured properly to act as a media of transmissions and receptions.

Define Base Station's properties here, and the information can be viewed later when you click on the Base Station's icon on the Device Bar.



RF System

➤ 433 MHz RF System

One 433 MHz RF system can support up to 45 terminals and 16 base stations.

To support all 45 terminals, the 433 MHz RF base stations have to be configured into 3 groups.

Base Station's ID (on page 49)	Base IDs (433 MHz):	01 ~ 16
Terminal (on page 51)	Terminal IDs (433 MHz):	01 ~ 45 (3 groups)
Base Station's Properties (on page 50)	Group 1 Base Stations:	support terminals 01 ~15.
	Group 2 Base Stations:	support terminals 16 ~ 30.
	Group 3 Base Stations:	support terminals 31 ~ 45.

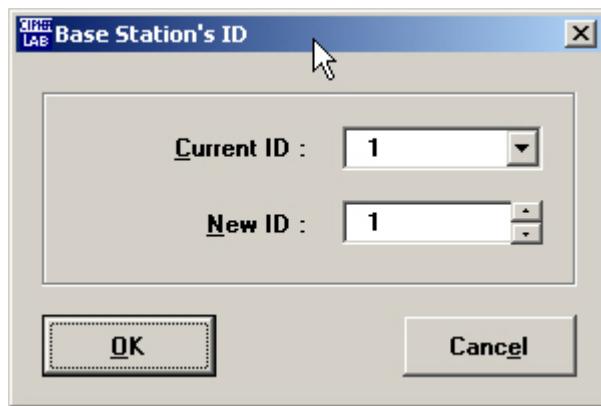
➤ 2.4 GHz RF System

One 2.4 GHz RF system can support up to 99 terminals and 16 base stations.

Base Station's ID (on page 49)	Base IDs (2.4 GHz):	01 ~ 16
Terminal (on page 51)	Terminal IDs (2.4 GHz):	01 ~ 99

Base Station's ID

Each Base Station and terminal in the same RF system should have a unique ID for identification purpose.



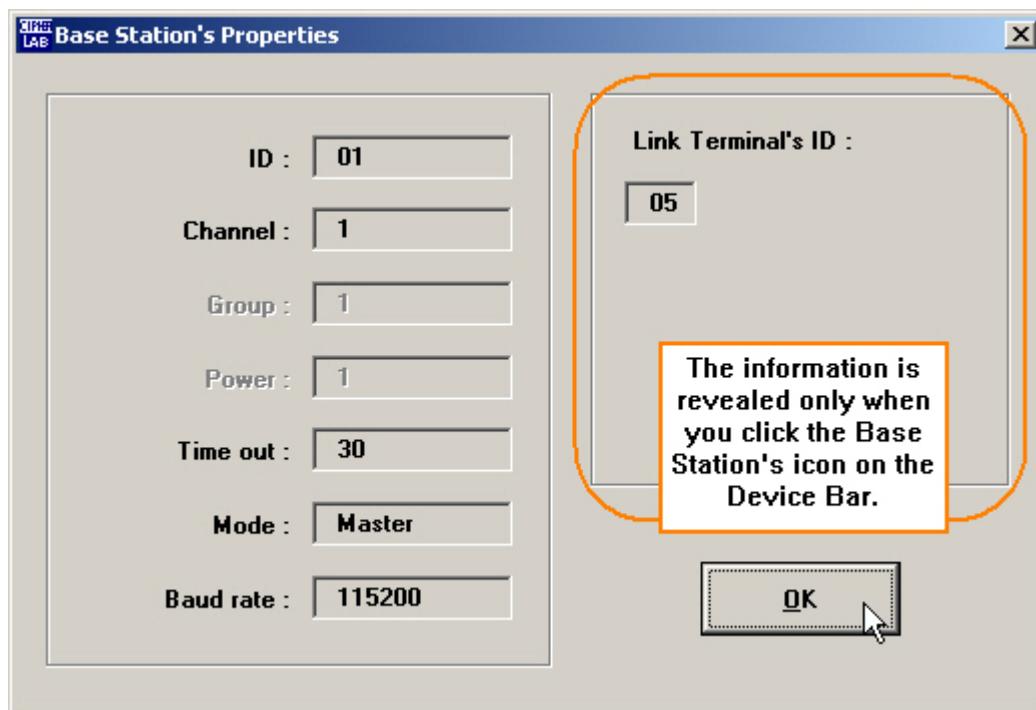
Option	Function
Current ID	Click on the drop-down menu to select Base Station by ID number.
New ID	Assign a new ID to the selected Base Station.

Base Station's Properties

The RF terminals must communicate with the host computer through at least one RF base stations. Options of RF specifications include:

- 433 MHz RF
- 2.4 GHz RF

The connection between the host computer and the standalone or master Base Station is RS-232, while the connection between every two base stations is RS-485. Up to 16 base stations can be connected together in one RF system. If two or more base stations are connected together, the one directly connected to the host computer should be set to master mode, and the others to slave mode.



Option	Function
ID	Click on the drop-down menu to select Base Station by ID number.
Channel	▪ 1 ~ 4 for 433 MHz RF ▪ 1 ~ 6 for 2.4 GHz RF
Group	433 MHz RF: assign group ID 1 ~ 3 to the Base Station. 2.4 GHz RF: all belong to group 1 by default.

Power	<ul style="list-style-type: none"> ▪ Power level: 1 ~ 5 1: 10 dbm 2: 5 dbm 3: 4 dbm 4: 0 dbm 5: -5 dbm 	433 MHz RF: set the RF output power to the Base Station. 2.4 GHz RF: all set to power level 1 by default. (max. 100mW)
Time out	<ul style="list-style-type: none"> ▪ 1 ~ 99 seconds 	Set the duration of re-try for sending data.
Mode	<ul style="list-style-type: none"> ▪ Standalone ▪ Master or Slave 	Set the operation mode to the Base Station. Only one base station: standalone Two or more: one master, the rest slave.
Baud rate	<ul style="list-style-type: none"> ▪ 115200 / 57600 / 38400 / 19200 / 9600 / 4800 / 2400 bps 	Set the baud rate for RS-232 connection.

Terminal

➤ Identification No. (ID)

Hold down the function key and press the Num key 1 or 3 to change ID (01 ~ 45 for 433 MHz RF; 01 ~ 99 for 2.4 GHz RF).

- FN+1: decrease number
- FN+3: increase number

➤ Channel (CH)

Hold down the function key and press the Num key 4 or 6 to change channel (1 ~ 4 for 433 MHz RF; 1 ~ 6 for 2.4 GHz RF).

- FN+4: decrease number
- FN+6: increase number

➤ Power Level (PW)

Hold down the function key and press the Num key 7 or 9 to change power level (1 ~ 5 for 433 MHz RF only).

- FN+7: decrease number
- FN+9: increase number

Editing

After executing one of the following commands to create a database, you can use the Editing Toolbar to manage the received data manually.

- Convert Data
- Open Database
- Data Link



Add a record

- 1 Click [Add].
- 2 The dialog box contains fields of a record for input.
- 3 When input is completed, click [Update].

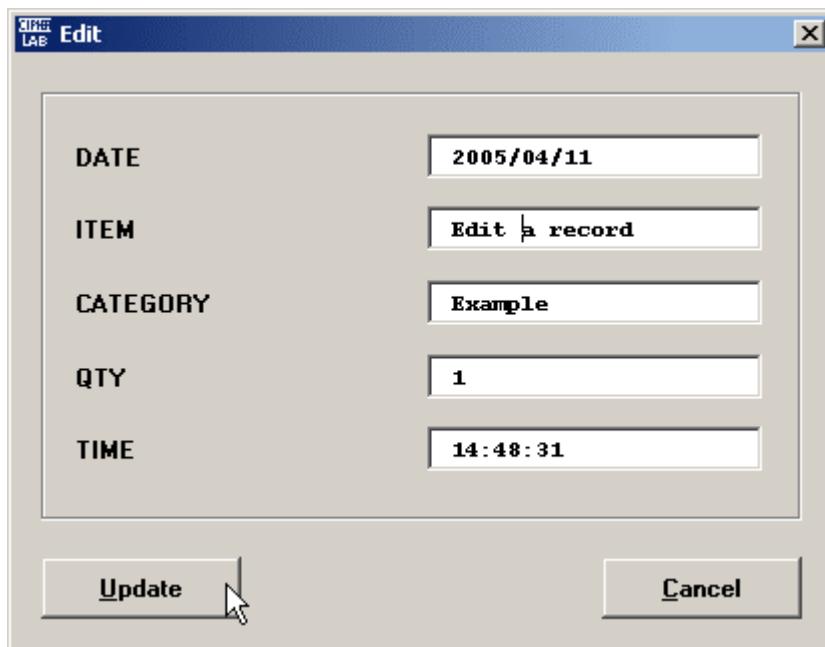
A screenshot of a Windows-style dialog box titled "Add". The form contains five input fields: DATE (2005/04/11), ITEM (Add a record), CATEGORY (Example), QTY (1), and TIME (14:48:31). At the bottom are "Update" and "Cancel" buttons, with a cursor pointing at the "Update" button.

- 4 The new record will be added to the bottom of the list.

DATE	ITEM	CATEGORY	QTY	TIME
2005/04/11	Coke	Grocery	11	14:33:01
2005/04/11	Candy	Grocery	20000	11:20:49
2005/04/11	Soft drink	Grocery	300	11:20:49
2005/04/11	Cigarette	Grocery	4000	11:20:49
2005/04/11	Wine	Grocery	500	11:20:49
2005/04/11	Pencil	Grocery	6000	11:20:49
2005/04/11	Book	Grocery	777	11:20:49
2005/04/11	Notebook	Grocery	80	11:20:49
2005/04/11	Charger	Grocery	900	11:20:49
2005/04/11	Scanner	Grocery	10000	11:20:49
▶ 2005/04/11	Add a record	Example	1	14:48:31

Edit a record

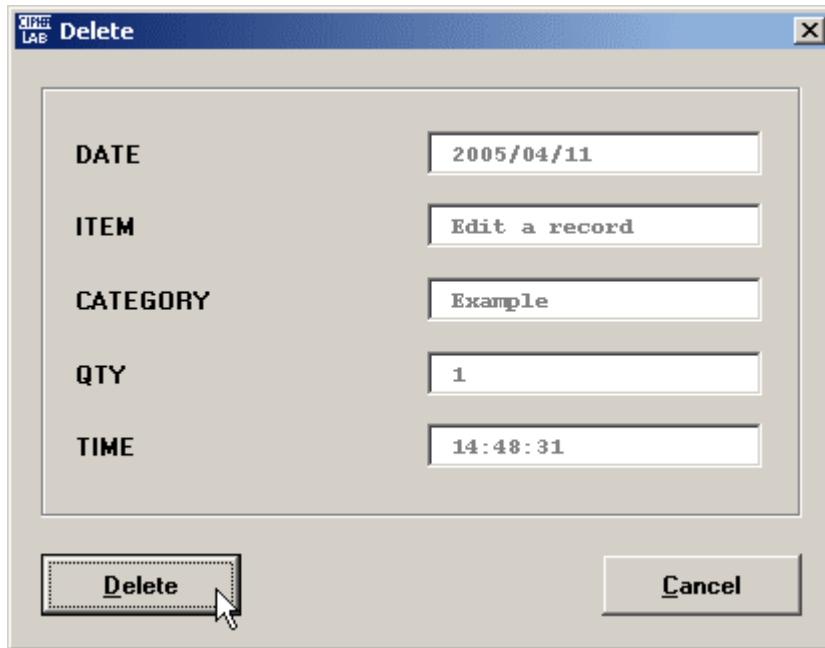
- 1 Click on any part of a record so that the triangular indicator (▶) points to the record.
- 2 Click [Edit].
- 3 The dialog box contains fields of a record for editing.
- 4 When input is completed, click [Update].



- 5 The edited field/s of the original record will be updated with new input.

Delete a record

- 1 Click on any part of a record so that the triangular indicator (►) points to the record.
- 2 Click [Delete].
- 3 The dialog box contains fields of a record (grayed out).
- 4 If this is the record you don't want, simply click [Delete].

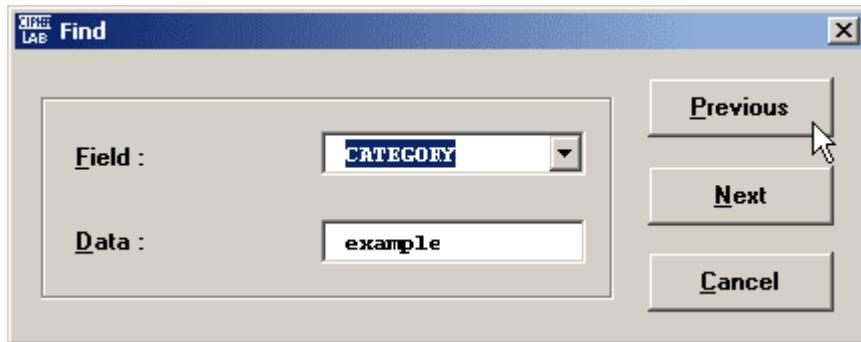


- 5 The record will be deleted for good.

Find a record

- 1 If you need to check on something on a long list, click [Find].
- 2 The dialog box contains several key fields (as many as one record contains) and its data content for specifying your requirements.

- 3 Click [Previous](records before the current item) or [Next](records after the current item) to start searching.



- When a certain record is found, you'll find the triangular indicator (►) points to it.
- Otherwise, you'll be prompted with the following message.



Sort records

- 1 If you need to sort information on a long list, click [Sort].
- 2 The dialog box contains several key fields (as many as one record contains) and the sort methods (Ascending or Descending) for specifying your requirements.
- 3 Click [Start].



4 Examples:

- Sorting by Item/Ascending

DATE	ITEM ↓	CATEGORY	QTY	TIME
► 2005/04/11	Book	Grocery	777	11:20:49
2005/04/11	Candy	Grocery	20000	11:20:49
2005/04/11	Charger	Grocery	900	11:20:49
2005/04/11	Cigarette	Grocery	4000	11:20:49
2005/04/11	Coke	Grocery	11	14:33:01
2005/04/11	Edit a record	Example	1	14:48:31
2005/04/11	Notebook	Grocery	80	11:20:49
2005/04/11	Pencil	Grocery	6000	11:20:49
2005/04/11	Scanner	Grocery	10000	11:20:49
2005/04/11	Soft drink	Grocery	300	11:20:49
2005/04/11	Wine	Grocery	500	11:20:49

- Sorting by Quantity/Descending

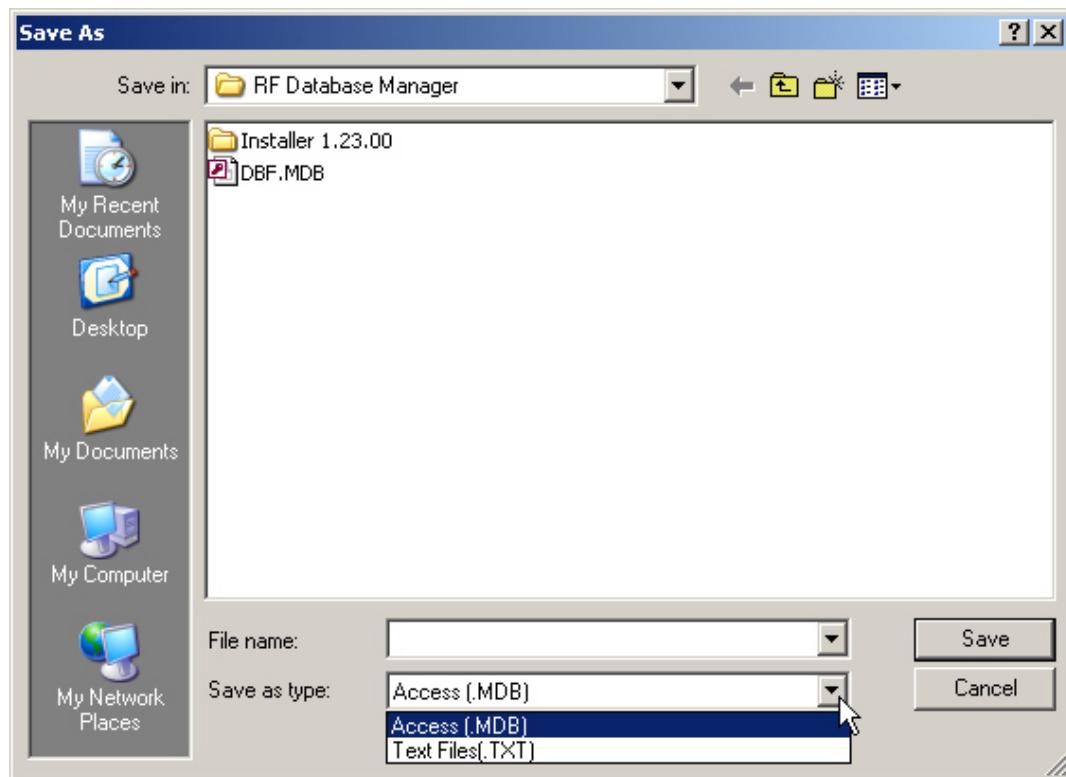
DATE	ITEM	CATEGORY	QTY ↓	TIME
► 2005/04/11	Candy	Grocery	20000	11:20:49
2005/04/11	Scanner	Grocery	10000	11:20:49
2005/04/11	Pencil	Grocery	6000	11:20:49
2005/04/11	Cigarette	Grocery	4000	11:20:49
2005/04/11	Charger	Grocery	900	11:20:49
2005/04/11	Book	Grocery	777	11:20:49
2005/04/11	Wine	Grocery	500	11:20:49
2005/04/11	Soft drink	Grocery	300	11:20:49
2005/04/11	Notebook	Grocery	80	11:20:49
2005/04/11	Coke	Grocery	11	14:33:01
2005/04/11	Edit a record	Example	1	14:48:31

Save As

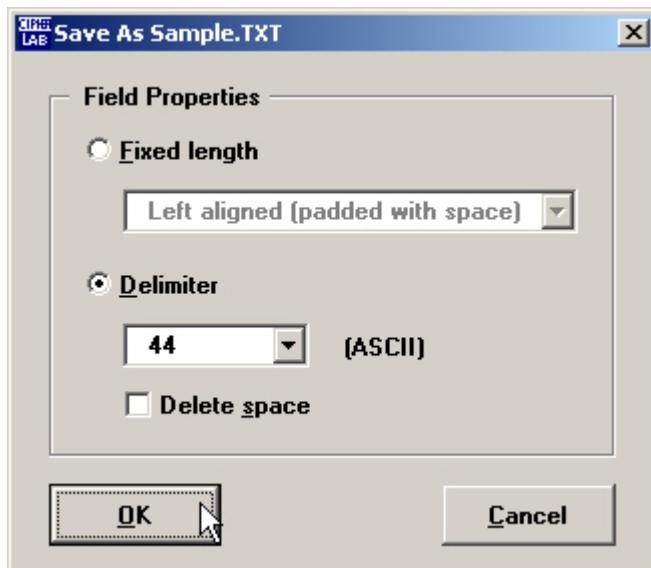
In the database tab, the received data can be saved in two different file formats:

- Access (.mdb)
- Text File (.txt)

- 1 Click [Save As].



- 2 If you open a database by using [Data Link], you'll have to configure its field properties before saving it as a text file (.txt).

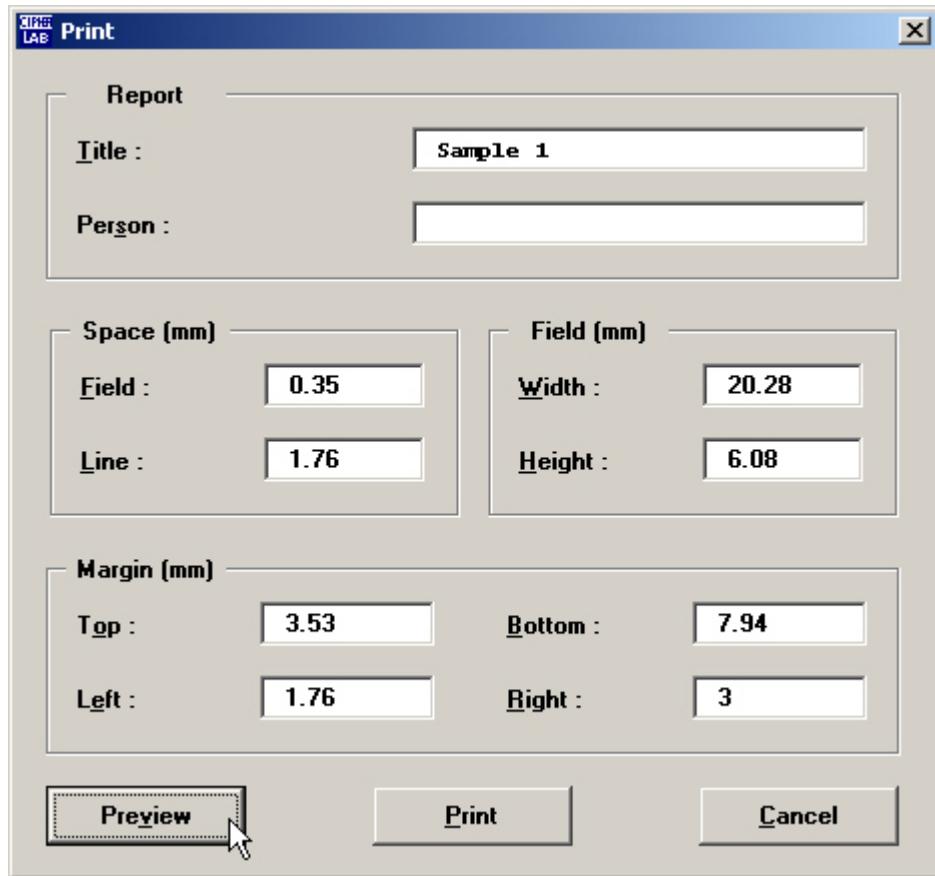


- 3 Select an appropriate file format, and enter the file name.
4 Click [Save].

Print

➤ Print Properties

In the database tab, you can print out the received data. Before you print, you may configure the layout settings to meet your needs.



Option	Description
Report	<ul style="list-style-type: none"> ▪ Title: of the printout, optional ▪ Person: who produced the printout, optional
Space	<ul style="list-style-type: none"> ▪ Field: space between fields, in millimeter ▪ Line: space between lines or records, in millimeter
Field	<ul style="list-style-type: none"> ▪ Width: of each field, in millimeter ▪ Height: of each field, in millimeter

Margin

- Top: margin size from top to the edge of paper, in millimeter
- Bottom: margin size from bottom to the edge of paper, in millimeter
- Left: margin size from left to the edge of paper, in millimeter
- Right: margin size from right to the edge of paper, in millimeter

➤ Print

1 When in the RF Reading tab, simply click [Print].

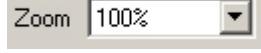
When in the Database tab, select a data sheet first. Then click [Print].

2 Select the target printer and click [Print].

Preview

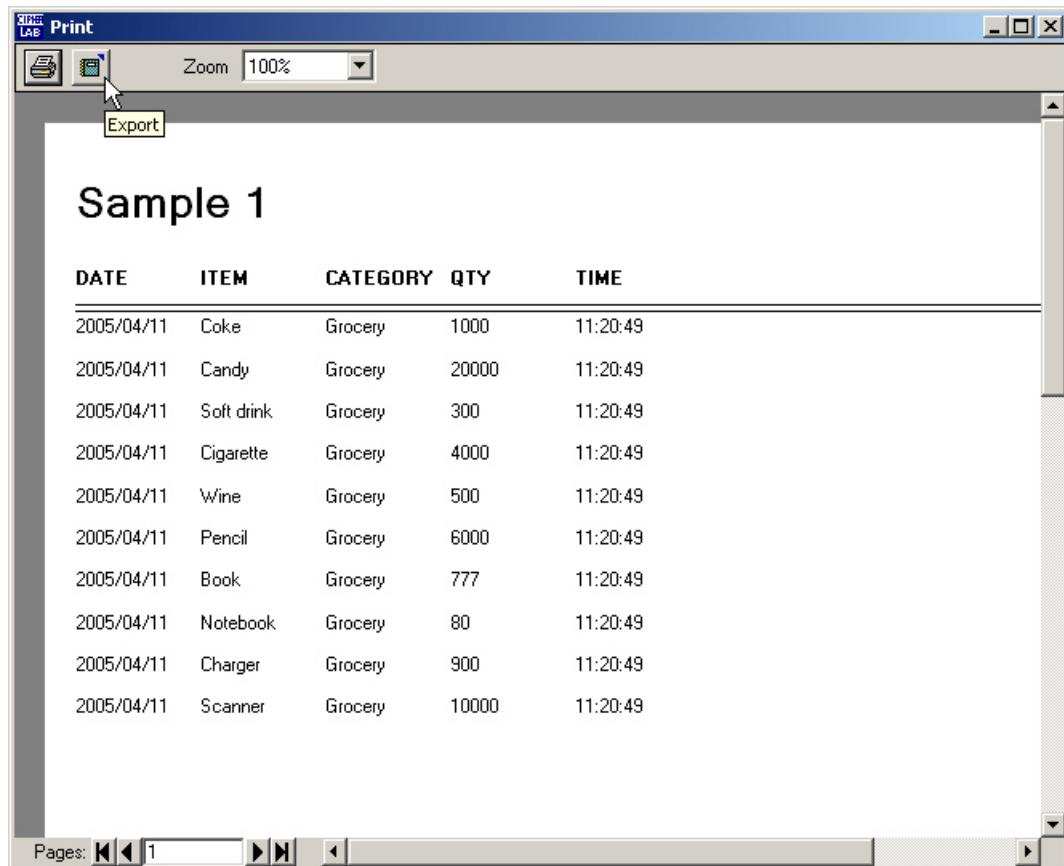
You may click [Preview] to take a glance at the printout.

➤ Zooming

Click the drop-down menu  to select an appropriate preview size.

➤ Print

When the print layout satisfies your needs, simply click  to print.

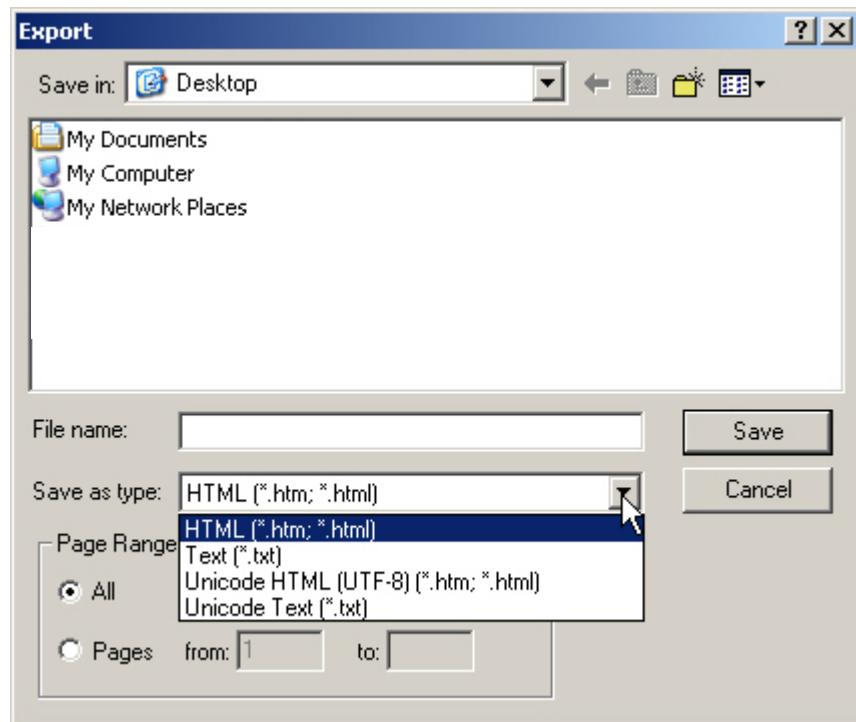


➤ Export



You may click to export it (all or by page) to different file formats.

- HTML (*.htm; *.html)
- Text (*.txt)
- Unicode HTML (UTF-8)(*.htm; *.html)
- Unicode Text (*.txt)



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