Data Mapping Tool User Interface and Mechanics

This chapter describes how to start and shut down the Data Mapping Tool and provides an overview of the Data Mapping Tool interface. It covers the following topics:

- Starting the Data Mapping Tool

- Shutting Down the Data Mapping Tool

- The Data Mapping Tool Interface

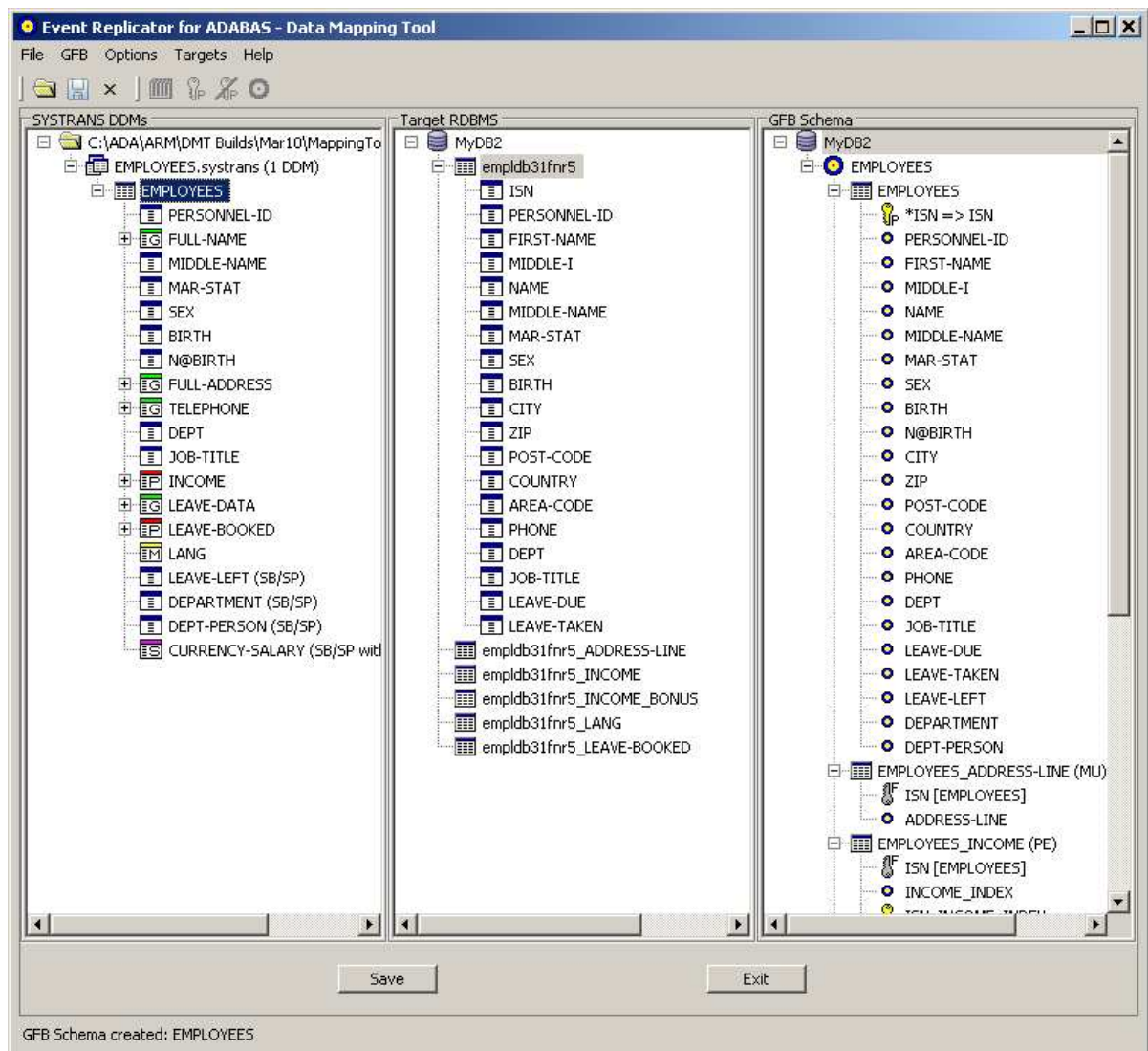## Starting the Data Mapping Tool

▶ **To start the Data Mapping Tool in Windows environments, complete the following steps:**

- Select **Data Mapping Tool** from the **Software AG Event Replicator Administration** Start Programs submenu.

  Or:
  Locate and run the *MappingTool.exe* file in the installation directory.

  The Data Mapping Tool starts up and it primary window appears.

▶ **To start the Data Mapping Tool in UNIX environments, complete the following steps:**

● Run the *MappingTool.sh* file in the installation directory.

   The Data Mapping Tool starts up and it primary window appears.

Shutting Down the Data Mapping Tool

▶ **To shut down the Data Mapping Tool:**

● Click the **Exit** button on the Data Mapping Tool window.
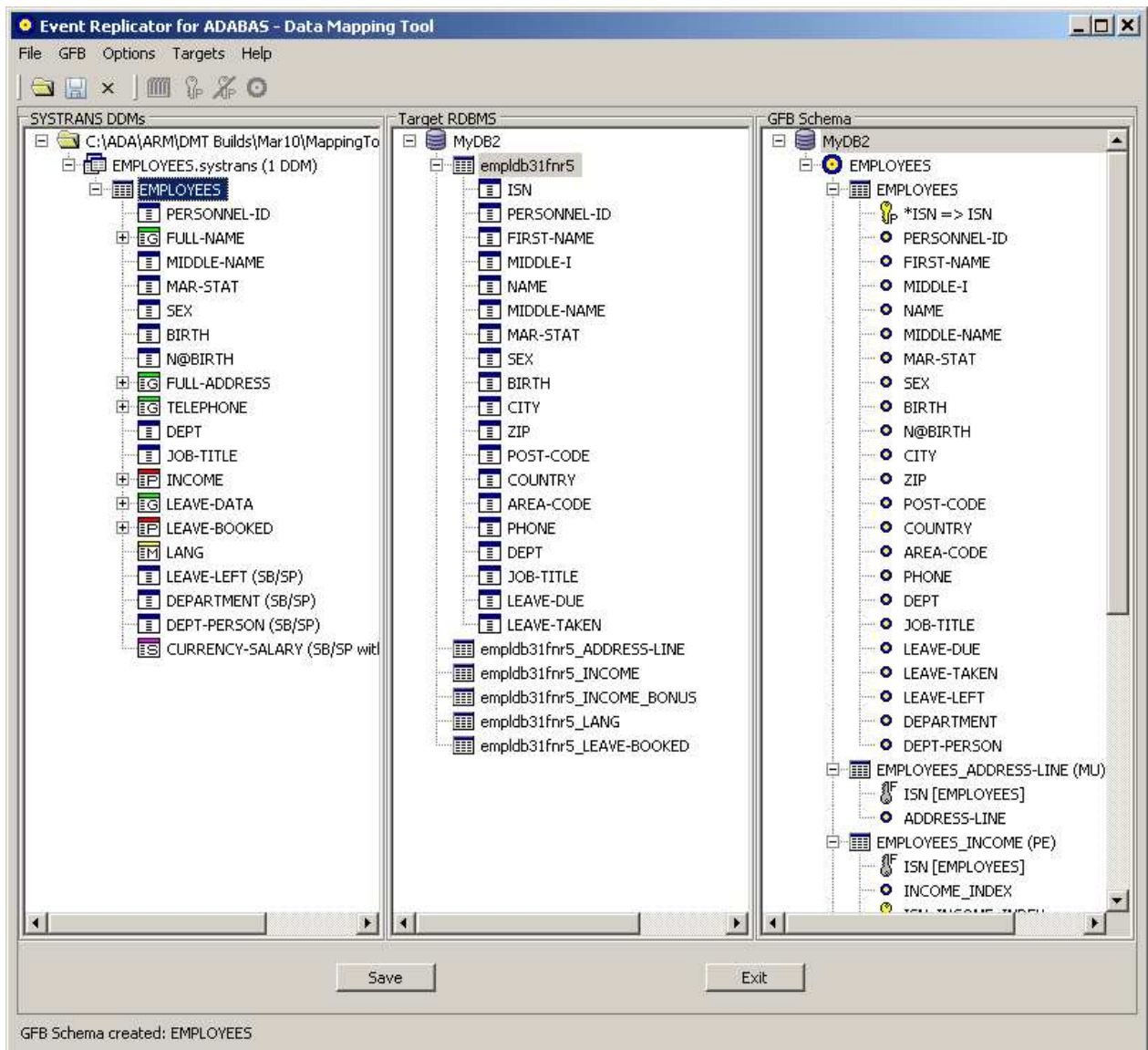
   The Data Mapping Tool shuts down.

The Data Mapping Tool Interface

This section describes the Data Mapping Tool window, menus, and buttons. It covers the following topics:

- Data Mapping Tool Main Window

- Menus

- Buttons

- Icons

Data Mapping Tool Main Window

The Data Mapping Tool main window is divided into three columns.

The far left column, SYSTRANS DDMs, lists available DDMs. Once you have identified a directory containing DDMs, the DDMs in that directory get listed in this column. For information on identifying the directory containing your DDMs, read *Locating and Selecting a Source DDM*.

The middle column, Target RDBMS, lists the target relational database tables to which you will map fields from your DDM. To add and remove target relational databases from this list, read *Adding a Target Database*.

The right column, GFB Schema, displays the GFB schema that is created when you drag a DDM onto an RDBMS. A GFB and field table (GFFT) can be generated from this schema.

Menus

The Data Mapping Tool main window includes five menus. The options available from these menus are described in this section:

- File Menu
- GFB Menu
- Options Menu
- Targets Menu
- Help Menu

File Menu

The **File** menu consists of the following menu options:

Menu Option	Description
Find SYSTRANS DDM Directory...	Allows you to specify the directory in which data definition modules (DDMs) can be found. For more information, read *Locating and Selecting a Source DDM*.
Save Mapping	Allows you to save the RDBMS target table and GFB schema listed on the screen. The next time you start up the Data Mapping Tool, this table and GFB schema will automatically appear.
Exit	Allows you to shut down the Data Mapping Tool.

GFB Menu

The options on the **GFB** menu only become available once a GFB schema appears in the GFB Schema column of the screen. It consists of the following menu options:

Menu Option	Description
Redefine	Allows you to redefine a field in the schema. For more information, read *Redefining Schema Fields*.
Set Primary Key	Allows you to specify that a field selected in the schema is the primary key or is part of a composite key. For more information, read *Specifying Keys*.
Remove Primary Key	Allows you to specify that a field selected in the schema is no longer the primary key or part of a composite key. For more information, read *Specifying Keys*.
Generate GFB/GFFT	Allows you to generate the GFB and field table, based on the selected GFB schema. For more information, read *Generating a GFB and Field Table*.

Options Menu

The **Options** menu consists of the following menu options:

Menu Option	Description
Logging Level	Allows you to set the logging level for Data Mapping Tool processing. For more information, read *Managing Logging and Log Files*.
Default Occurrences..	Allows you to specify the default number of occurrences of repeating elements for each MU or PE field if you want them to be flattened during replication. When you drag a DDM onto an RDBMS target to create a GFB schema, you are presented with a panel on which you can override this default for each MU or PE field. For more information, read *Requesting MU and PE Field Flattening During Replication*
DDM File Extensions..	Allows you to specify the file extensions of the DDMs you want to see in the leftmost column of the Data Mapping Tool main window.

Targets Menu

The **Targets** menu consists of the following menu options:

Menu Option	Description
Add RDBMS Target..	Allows you to add and link to a target RDBMS. Once added, the RDBMS is listed in the middle column of the Data Mapping Tool main window. For more information, read *Adding a Target Database*.

Help Menu

The **Help** menu consists of the following menu options:

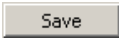| Menu Option	Description
Help Contents	Allows you to access the online help for the Data Mapping Tool
About Event Replicator for Adabas - Data Mapping Tool	Lists version information about this installation of the Data Mapping Tool.

Buttons

The Data Mapping Tool main window includes the following buttons:

Note:
Some of these buttons only become useable if specific items are selected in the Data Mapping Tool screen.

Button	Description
📁	Allows you to specify the directory in which data definition modules (DDMs) can be found. For more information, read *Locating and Selecting a Source DDM*.
💾	Saves the current mappings shown in the Data Mapping Tool. Target definitions in the target list, GFB schemas, and source DDMs are saved.
✕	Exits the Data Mapping Tool.
▥	Allows you to redefine the selected GFB schema field. For more information, read *Redefining Schema Fields*.
🔑P	Allows you to specify that a field selected in the schema is the primary key or is part of a composite key. For more information, read *Specifying Keys*.
🔑P	Allows you to specify that a field selected in the schema is no longer the primary key or part of a composite key. For more information, read *Specifying Keys*.
◉	Allows you to generate the GFB and field table, based on the selected GFB schema. For more information, read *Generating a GFB and Field Table*.
Exit	Exits the Data Mapping Tool.
Save	Saves the current mappings shown in the Data Mapping Tool. Target definitions in the target list, GFB schemas, and source DDMs are saved.

- The **Save** button allows you to save the RDBMS target table and GFB schema listed on the screen. The next time you start up the Data Mapping Tool, this table and GFB schema will automatically appear.

- The **Exit** button allows you to shut down the Data Mapping Tool.

Icons

The Data Mapping Tool main window uses the following icons:

Icon	Description
🗐	Identifies a DDM file in the leftmost pane.
▦	Identifies a DDM in the leftmost pane, an RDBMS table in the center pane, and a GFB schema table in the rightmost pane. In addition, this icon precedes the **Show Tables** and **Refresh Tables** options on the right-click menu of an RDBMS or table in the center pane.
▤	Identifies a simple field in the leftmost pane and an RDBMS column in the center pane. In addition, this icon precedes the **Show Columns** and **Refresh Columns List** options on the right-click menu of a table in the center pane.

Icon	Description
☷M	Identifies a multiple value (MU) field in the leftmost pane.
☷M	Identifies a flattened multiple value (MU) field in the leftmost pane.
☷P	Identifies a periodic group (PE) field in the leftmost pane.
☷P	Identifies a flattened periodic group (PE) field in the leftmost pane.
☷G	Identifies a simple group field in the leftmost pane.
☷S	Identifies a subfield or superfield with occurrences in the leftmost pane.
☷S	Identifies a flattened subfield or superfield with occurrences in the leftmost pane.
☷S·	Identifies a subfield or superfield with MU or PE occurrences in the leftmost pane.
☷S·	Identifies a flattened subfield or superfield with MU or PE occurrences in the leftmost pane.
🛢	Identifies an RDBMS database in the center and rightmost panes. This icon also precedes the **Add RDBMS Target** option on the **Targets** menu.
◉	Identifies a GFB schema in the rightmost pane. In addition, this icon: • Precedes the **Generate GFB/GFFT** option on the right-click menu of a GFB schema in the rightmost pane. • Precedes the **Generate GFB/GFFT** option on the **GFB** menu. • Appears on a button on the main screen that allows you to generate the GFB and field table, based on the selected GFB schema. For more information, read *Generating a GFB and Field Table*.
●	Identifies a GFB schema field in the rightmost pane.

Icon	Description
	Identifies a GFB schema key field -- either the primary key or a field included in a composite key -- in the rightmost pane. In addition, this icon: • Precedes the **Set Primary Key** option on the right-click menu of a GFB schema field in the rightmost pane. • Precedes the **Set Primary Key** option on the **GFB** menu. • Appears on a button on the main screen that allows you to identify a GFB schema field as a primary key or composite key field. For more information, read *Specifying Keys*.
	Precedes the **Set Composite Key Order** option on the right-click menu of a GFB schema composite key field in the rightmost pane.
	Precedes the **Remove Primary Key** option on the right-click menu of a GFB schema key field in the rightmost pane. This icon also: • Precedes the **Remove Primary Key** option on the **GFB** menu. • Appears on a button on the main screen that allows you to specify that a field selected in the schema is no longer the primary key or part of a composite key.
	Identifies a GFB schema foreign key in the rightmost pane.
	Precedes the **Flatten** option on the right-click menu of a DDM field in the leftmost pane. For more information, read *Flattening Fields for Replication*.
	Precedes the **Unflatten** option on the right-click menu of a DDM field in the leftmost pane. For more information, read *Flattening Fields for Replication*.
	Precedes the **Rename** option on the right-click menu of a GFB schema or GFB schema field in the rightmost pane.
	Precedes the **Redefine** option on the right-click menu of a GFB schema field in the rightmost pane. This icon also: • Precedes the **Redefine** option on the **GFB** menu. • Appears on a button on the main screen that allows you to redefine the selected GFB schema field. For more information, read *Redefining Schema Fields*.
	Identifies a child field of a redefined (split) field in the rightmost pane.

Icon	Description
	Appears on a button that allows you to save the current mappings shown in the Data Mapping Tool. This icon also precedes the **Save Mapping** option on the **File** menu.
	Appears on a button that allows you to specify the directory in which data definition modules (DDMs) can be found. This icon also precedes the **Find SYSTRANS DDM Directory** option on the **File** menu.
	Precedes the **Properties** option on the right-click menu of a screen element.
	Appears on a button that allows you to exit the Data Mapping Tool. This icon also precedes the **Exit** option on the **File** menu.
	Precedes the **Delete** option on the right-click menu of a screen element.
	Precedes the **Help Contents** option on the **Help** menu. This option allows you to access the online help for the Data Mapping Tool.