Industry-specific

QAD SOLUTIONS

Manufacturing Applications

Installation Guide

MFG/PRO eB2 Service Pack 4

QAD

MFG/PRO eB2
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Contents

Overview

This document is a simplified set of steps for installing Service Pack 4 (SP4) on MFG/PRO eB2. In the past, service packs required a separate installation, even if you were installing MFG/PRO for the first time. Beginning with MFG/PRO eB2, the base installation now incorporates the service pack installation. Only those sites that already have an installed eB2 environment should use the instructions in this document to run a separate service pack install.

This document is sufficient to complete the service pack installation. However, additional information about procedures in this document is located in the installation guide you used to install eB2. Therefore, steps in this document cross-reference more detailed steps in the base MFG/PRO eB2 installation guides (78-0570B and 78-0572B) where appropriate.

The service pack installation requires the following steps:

- Install database server and language media to the SP4 install directory.
- Modify the empty database schema to support compiles.
- Load schema changes into your eB2 databases.
- Process service pack data in MFG/UTIL.
- Install client media (character or GUI) to the SP4 install directory.
- Revise database sets.
- Generate client scripts.
- Compile service pack files.
- Update help database.

The process requires the following CDs:

- Database Server
- Language Files
- Character Client, UNIX and Windows
- GUI Client, Windows

Service Pack Tests and Install Reversals

QAD recommends you complete the service pack installation against a test environment first. By default, the eB2 service pack installs to a separate directory beneath your original *MFGPROInstallDir*. Data deleted during the service pack install are preserved in `dumpname.del` files.

The basic process is to back up your databases and then modify your existing empty, production, test, and training databases. To restore your original environment, you would remove the service pack directory from the PROPATH and restore the databases from the backup.

Service Pack Information

The *Service Pack Release Notes* describe significant changes to features of MFG/PRO eB2 introduced in each service pack since the initial MFG/PRO eB2 release. This cumulative document is available in HTML and PDF formats in the `spinfo/web/relnotes` directory on the client service pack CDs. Review the release notes `index.html` or `index.pdf` file to understand how changes may affect your current implementation.

Additional detailed service pack information is contained in HTML and ASCII text files located in subdirectories under the `spinfo` directory on the client service pack CDs. The HTML files are located in the `web` subdirectory and the ASCII text files are located in the `text` subdirectory.

Service pack information contains the following elements:

Module. Provides information on each module and the files in that module that changed in the service pack.

Menu. Provides information on each menu and the files in that menu that changed in the service pack.

ECOs. Provides information on each Engineering Change Order (ECO) included in the service pack. This information includes a brief description of the ECO plus cross-references to the modified files, affected menus and modules, and the compiled files for that ECO.

Modified Files. Provides information on each file modified by the service pack. This information includes the changes that were made to the file plus cross-references to the ECO that caused the file to be modified, the affected menus and modules, and the entire file, to enable review of all changes in context.

File Difference. Provides information on each file modified by the service pack. This information includes the entire file with all of the changes in context and a list of the changes made to the file for specific ECOs.

Compile List. Provides a list of all the files that must be recompiled after the service pack has been installed. Additionally, provides cross-references to the modified file information for each file changed in the service pack. This file is located in the `modlist` directory.

During the service pack installation, you can copy the service pack information to any directory you specify. When prompted whether to copy the service pack information, enter Yes, and indicate the destination directory for the information.

Prior to Installation

This document assumes the person completing this installation has MFG/PRO eB2 installation experience and is proficient in the respective database for which the installation is being completed.

In addition, you must meet all product and system requirements from the installation guide.

For further information, see the appropriate MFG/PRO eB2 installation guide.

Progress Database:	*Oracle Database*:
“System Requirements” on page 25	“System Requirements” on page 25

Installing a service pack creates files in the destination directory. When installing service packs, read and write permissions are required in all affected directories. Applying the service pack directly to your production environment may cause third-party products, customizations, localizations, and bolt-on applications to no longer function as expected. Review the service pack information in the `spinfo` directory in order to understand the ramifications of installing the service pack.

Important If you have third-party products, you should contact the product suppliers for compatibility issues with this service pack.

The cut-off date for a service pack can be found in the `version.mfg` file in the `mfgpro` directory on each service pack CD.

Preliminary Setup

Prior to install, review the following cautions and requirements:

For further information, see the appropriate MFG/PRO eB2 installation guide.

Progress Database:	*Oracle Database:*
“Preliminary Steps” on page 30	“Preliminary Steps” on page 30

- Set your `$TERM` variable to a standard terminal type such as vt100 or vt200 while installing the service pack. You can switch to a language-specific terminal if necessary when you launch the installed clients.
- Determine the following information:
  - The MFG/PRO installation directory where eB2 is installed, referred to in this document as *`MFGPROInstallDir`*
  - The Progress directory for the database server
- For UNIX environments, ensure the `mfg` user exists as defined in the installation guide.

Installing Database Server Files

In this set of steps, you install the service pack database server and language files.

For further information, see the appropriate MFG/PRO eB2 installation guide.

Progress Database:	*Oracle Database:*
“Installing Server Files” on page 32	“Installing the Database Server” on page 37

1. Log in as an administrative user with read, write, and execute permissions for your MFG/PRO environment. On UNIX systems, this is typically the `mfg` user.
2. Mount your service pack database server installation media.
3. Change to the `install` directory:

   ```
   cd install
   ```
4. Launch the database server installation script in that directory:

   ```
   ./install.ksh
   ```

   For Windows, run `install.exe` from Run on the Start menu.
5. Accept the license agreement.
6. Select the location for the service pack installation log. You should typically use the default directory, which is also the default for the original eB2 installation. This ensures subsequent installations can locate the log directory with all relevant eB2 install information.

7 If you choose Yes to view the service pack installation instructions online, your default browser launches and displays service pack and Q/LinQ warnings. Follow the links to the installation instructions.

   If you choose No, the warnings regarding the service pack CD and Q/LinQ display as text. Review each warning and choose Continue.

8 Respond to the following prompts:

   - Progress installation directory
   - Original MFG/PRO eB2 installation directory (*MFGPROInstallDir*)
   - Service pack installation directory (*MFGPROInstallDir*/SP4)

9 The script may ask if this is an Oracle installation. Enter Yes or No as appropriate.

10 Review the summary screen and select Yes to begin copying the service pack files. Enter No to reenter installation information.

11 Remove the database server media, insert the language file media, and repeat steps 3 through 10 to initiate the language files installation.

12 Check `mfglangsp.log` for errors.

For further information, see the appropriate MFG/PRO eB2 installation guide.

Progress Database:	*Oracle Database*:
“Installing Language Files” on page 35	“Installing Language Files” on page 39

MFG/UTIL Overview

The remaining instructions are divided into Progress and Oracle database sections. In both, you first update the empty database (Progress) or schema holder (Oracle), then update your existing eB2 databases. Operation sets, or workflows, are available for the MFG/UTIL scenarios.

This document follows the workflows. To accomplish additional tasks, such as creating a new empty database in Progress, you can either modify the workflow provided as documented in the “Planning an MFG/PRO Installation” chapter in both installation guides—Progress and Oracle—or complete the steps using the menu options in MFG/UTIL.

Workflows

There are several service pack workflows depending on what version of eB2 you have implemented, and which database you are running against.

Table 1 MFG/UTIL Workflows by Release

Database	Current Release	Required Workflows	Filename
Progress	IR[a] to SP2	SP4 mfgempty DB Updates from preSP3	wk3prmt.ini
		SP4 production DB Updates from preSP3	wksp3pr.ini
	SP3	SP4 mfgempty DB Updates from SP3	wk3prmt4.ini
		SP4 production DB Updates from SP3	wksp3pr4.ini
Oracle	IR[a] to SP1	Create Oracle Schema Holder SP4	wk3pro4.ini
	SP2	Create Oracle Schema Holder preSP3	wk3pro2.ini
	SP3	Create Oracle Schema Holder SP3	wk3pro3.ini

a. IR = Initial Release

Important Make sure you run the correct workflows for your database and current release.

Progress Databases

SP4 mfgempty DB Updates. These workflows (from preSP3 and SP3) are run against the empty database used for compiling. The workflows load both main and admin database schema changes for the empty databases, then truncate the BI files.

See page 8.

SP4 Production DB Updates. These workflows are run against production, test, or train databases. The workflow:

See page 9.

- Dumps any existing Kanban data
- Loads schema changes into both main and admin databases
- Loads the service pack data
- Reloads dumped Kanban data if it exists
- Truncates the main and admin database BI files

See the *Service Pack Release Notes* for information on the Lean Manufacturing enhancements.

Oracle Databases

Create Oracle Schema Holder — <version>. These workflows create a new empty Progress schema holder for compiling. They then load the full eB2 SP4 main, admin, and help schemas and truncate the BI file.

See page 12.

The updates to Oracle production, test, and training databases occur outside of MFG/UTIL using SQL files. You then complete data loads in MFG/UTIL.

See page 14.

To continue with an Oracle update, go to “Updating Oracle Databases” on page 12.

Updating Progress Databases

The entire Progress update can be completed in MFG/UTIL using the workflows appropriate for your current release version. See Table 1 on page 7 to identify the correct workflows.

- SP4 mfgempty DB Updates
- SP4 Production DB Updates

Updating Progress Empty Compile Database

For Progress databases, you must either create a new empty database for compiling the updated code base or modify the existing empty database due to modified schemas in previous service packs. The workflow modifies the existing empty database.

Load Service Pack Schema to Main Empty Database

1. Launch MFG/UTIL on the database server.
2. Select Configure|MFG/PRO Guided Setup.
3. Select “SP4 mfgempty DB Updates” for your current release in the Operation Set drop-down and click Run Set.
4. The Connect Database screen displays. Accept the defaults and choose OK to connect to `mfgempty`.
5. The Load Data Definitions dialog appears. The correct data definition file defaults:
   - Releases through SP2 — `dltmfgSP2toSP4.df`
   - SP3 platforms — `dltmfgSP3toSP4.df`
6. Choose OK to begin loading the database schema.

   The program first writes the schema to a buffer, then loads it into the database. The write displays a progress screen; the load process does not. For almost half of the load time, you see the message, “Processing schema load. Please wait...”
7. When the load completes, close the log window.

Truncate Main Empty Database BI File

1. The Truncate Database Before Image File screen displays. Accept the default path to `mfgempty` and choose Truncate.
2. Close the log window that displays on completion.

Load Service Pack Schema to Admin Empty Database

1. The Connect Database screen displays again. Accept the defaults and choose OK to connect to `admempty`.
2. The Load Data Definitions dialog appears. The correct data definition file defaults:
   - Releases through SP2 — `dltadmSP2toSP4.df`
   - SP3 platforms — `dltadmSP3toSP4.df`
3. Choose OK to begin loading the database schema.

   The program first writes the schema to a buffer, then loads it into the database. The write displays a progress screen; the load process does not.
4. When the load completes, close the log window.

Truncate Admin Empty Database BI File

1. The Truncate Database Before Image File screen displays. Accept the default path to `admempty` and choose Truncate.
2. Close the log window that displays on completion.
3. You return to the Guided Setup screen.

This completes the work to update the empty database.

Updating Progress Production and Other Databases

Dump Kanban Data

Note You can skip these steps if you are upgrading from SP3 to SP4.

Service Pack 3 introduced major enhancements to the Kanban module supporting lean manufacturing techniques. The SP4 upgrade menus and programs use Lean Manufacturing in their titles. The Kanban data dump is run for all databases whether Kanban data exists or not. If it does not exist, the process only takes a few seconds.

1. While still in the Guided Setup screen, select the SP4 Production DB Updates workflow that matches your current release version in the Operation Set drop-down and click Run Set.
2. The Connect Database screen displays. Accept the defaults and choose OK to connect to `mfgprod`.

Important Rerun this script for each eB2 production, test, or training database you want to update to the current service pack. The only change required is to modify the database name. You can do this by modifying the workflow file, `wksp3pr` for pre-SP3 installs, or `wksp4pr.ini` for SP3, or by entering the database name during the workflow execution in MFG/UTIL.

3 You are asked to enter a dump directory. If it does not exist, it is created.

4 The dump starts and the dump log displays. When the dump is complete, click Close.

Load Production and Admin Schema

1 The Connect Database screen appears. Make sure you are connected to the main database, such as `mfgprod.db`. Click OK.

2 The Load Data Definitions dialog appears. The correct data definition file defaults:

- Releases through SP2 — `dltmfgSP2toSP4.df`
- SP3 platforms — `dltmfgSP3toSP4.df`

3 Choose OK to begin loading the database schema.

4 Close the log screen, then close the Load Data Definition screen.

5 The Connect Database screen appears again. This time, connect to the admin database, such as `admprod.db`. Click OK.

6 The Load Data Definitions dialog appears. The correct `.df` file displays by default:

- Releases through SP2 — `dltadmSP2toSP4.df`
- SP3 platforms — `dltadmSP3toSP4.df`

7 Click OK. The schema is updated with SP4 changes.

8 Close the log screen, then close the Load Data Definition screen.

Load Service Pack and Lean Manufacturing Data

These steps first load service pack data, then the Kanban data if it exists. The Kanban data load, like the dump, is run for all databases whether Kanban data exists or not. If it does not exist, the process only takes a few seconds. Use these steps for both main (production, test, training, and so on) and administration databases.

1 The Service Pack Data load screen displays. The data directory points to your service pack installation directory. The databases built in MFG/UTIL and referenced in your `mfgutil.ini` file appear in the available database window. You can Ctrl+click to select the databases you want to update. You

can also click Add Database to select a database not referenced in `mfgutil.ini`. Click OK to initiate the loads. The first database connection occurs.

2 The Connect Database screen displays. Click OK. The first database connection occurs.

3 You are asked whether to create a dump directory for the service pack data that is obsolete. Click Yes to create the directory.

4 The processing starts by removing conflicting data from the tables. The new service pack data is then loaded.

5 The process then repeats for language updates—connect, remove conflicting data, and load new data—this time from the *`MFGPROInstallDir`*`/sp4/spdata/us` directory.

6 When the service pack data loads are complete for the first database you selected, the next database is then connected and the loads repeat (steps 4 and 5) until all selected databases are updated.

7 The Service Pack Data load screen then displays again for the Kanban loads. By default, the `C:\mfgsvr\db\kbprod` directory displays. If this is not where you dumped the Kanban data, modify it. Click OK. The Add Database screen displays.

8 Repeat steps 1 through 6 to complete the Kanban loads.

9 When all databases are updated, click Close in the Service Pack Data load screen.

Truncate Database BI Files

1 The Truncate Database Before Image File screen displays. Enter the path to a main or administration database that you just modified and choose Truncate.

2 Close the log window that displays on completion.

3 The Truncate Database Before Image File screen displays again. Repeat steps 1 and 2 for each modified database.

4 Close the log window that displays on completion.

This completes the work to update your main and administration databases.

To complete the service pack updates for your Progress environment, go to “Loading Language-Specific Information” on page 16.

Updating Oracle Databases

The creation of the Oracle empty schema holder for existing eB2 databases is completed in MFG/UTIL using the workflows:

- Create Oracle Schema Holder — SP4
- Create Oracle Schema Holder — SP2 to SP4
- Create Oracle Schema Holder — SP3 to SP4

The updates to Oracle production, test, and training databases occur outside of MFG/UTIL using SQL files. You then return to MFG/UTIL to complete the data loads.

Creating an Oracle Empty Compile Schema Holder

For Oracle databases, you must create a new empty database for compiling the updated code base due to modified schemas. The process consists of creating the new empty database, performing three schema loads into the new database—`oraempty.df`, `oadmempty.df`, `ohpempty.df`—and truncating the BI file. The tasks are run from the appropriate MFG/UTIL operation set, Create Oracle Schema Holder, for your source service pack level.

Create Empty Schema Holder

1. In MFG/UTIL, select MFG/PRO Guided Setup from the Configure menu.
2. Select the appropriate Create Oracle Schema Holder workflow in Operation Set for your source release version.
3. Tab to select Run Set and press Enter.
4. The Create Database screen displays. In the New Physical Database Name field, accept the default or enter the name you want to use for the schema holder. This guide refers to the schema holder using the default `oraempty`.

   Accept the default Start with option, choose OK. The schema holder is created.

Load the MFG/PRO Schema

After the schema holder is created, the Connect Database screen displays.

1. Verify that the Physical Database Name field contains the path to and name of the schema holder. Leave the other fields blank and choose OK to connect to the schema holder.
2. In the Load Data Definitions screen, verify that the `oraempty.df` file is specified in the Data Definition File field. Choose OK to load the main MFG/PRO schema contained in the `oraempty.df` data definition file.

When the Load Completed prompt displays, choose Close.

The data definition load screen reappears with the Close button selected. Press Enter to close the screen.

3 The Connect Database screen displays. Accept the defaults and choose OK to reconnect to the schema holder.

4 The data definition load screen displays. Verify that `oadmempty.df` is the data definition file. Choose OK to load the MFG/PRO administration schema contained in the `oadmempty.df` data definition file.

5 When the Load Completed prompt displays, choose Close. The data definition load screen reappears with the Close button selected. Press Enter to close the screen.

6 The Connect Database screen displays. Accept the defaults and choose OK to reconnect to the schema holder.

7 The data definition load screen displays. Verify that `ohpempty.df` is the data definition file. Choose OK to load the MFG/PRO help schema contained in the `ohpempty.df` data definition file.

8 The data definition load screen re-appears. Choose Close.

Truncate the Before-Image File

You now truncate the empty database before-image (BI) file.

1 The Truncate Database Before Image File screen displays. Accept the default path to `oraempty` and choose Truncate.

2 Choose Close in the progress screen when the process is complete.

Dump Kanban Data

Note You can skip these steps if you are upgrading from SP3 to SP4.

Service Pack 3 introduced major enhancements to the Kanban module supporting lean manufacturing techniques. The SP4 upgrade menus and programs use Lean Manufacturing in their titles. The Kanban data dump is run for all databases whether Kanban data exists or not. If it does not exist, the process only takes a few seconds.

Important Repeat these steps for each eB2 production, test, and training database you want to update to Service Pack 4. The only change required is to modify the database name.

1. In MFG/UTIL, select Database|Service Pack Process|Dump Lean Manufacturing.
2. The Connect Database screen displays. Accept the defaults and choose OK to connect to your production schema holder.
3. You are asked whether to connect to the Oracle database represented by the connected schema holder. Click Yes.
4. In the Connect Database screen that appears, enter `qad/qad` in the User ID field. On client/server installations, enter `qad/qad@`*`ORACLE_SID`* for the User ID.
5. You are asked to enter a dump directory. If it does not exist, it is created.
6. The Dump Data screen displays. This step dumps existing Kanban data.
7. The dump log displays. When the dump is complete, click Close.

Schema Changes for Oracle Databases

Schema changes to Service Pack 4 require that all prior eB2 installations have the new schema loaded. There were additional schema changes in Service Pack 2. There are different scripts for the following possible scenarios listed in Table 2.

Table 2 Service Pack 4 Data Definition Files by Release

Current eB2 on Oracle Status	SQL Update Script to Use
eB2 initial release (IR)	eB2IRtoSP4.sql
eB2 Service Pack 1	eB2SP1toSP4.sql
eB2 Service Pack 2	eB2SP2toSP4.sql
eB2 Service Pack 3	eB2SP3toSP4.sql

Update the Oracle Database Schema

Follow these steps to run the service pack SQL script to update the Oracle database schema:

1. Connect to the Oracle database as the database owner, typically `qad`.
2. Run the appropriate script using the list in Table 2.

   Example `sqlplus qad/qad < eB2IRtoSP4.sql`

Load Service Pack and Lean Manufacturing Data

These steps first load service pack data, then the Kanban data if it exists. The Kanban data load, like the dump, is run for all databases whether Kanban data exists or not. If it does not exist, the process only takes a few seconds. Use these steps for your production, test, training, and other eB2 databases.

1. In MFG/UTIL, select Database|Service Pack Process|Process Service Pack Data.
2. The Service Pack Data load screen displays. The data directory points to your service pack installation directory. The schema holders built in MFG/UTIL and referenced in your `mfgutil.ini` file appear in the available database window. You can Ctrl+click to select the schema holders you want to update. You can also click Add Database to select a database not referenced in `mfgutil.ini`. Click OK to initiate the loads. The first schema holder connection occurs.
3. You are asked whether to connect to the Oracle database represented by the connected schema holder. Click Yes.
4. In the Connect Database screen that appears, enter `qad/qad` in the User ID field. On client/server installations, enter `qad/qad@`*`ORACLE_SID`* for the User ID.
5. You are asked whether to create a dump directory for the service pack data that is obsolete. Click Yes to create the directory.
6. The processing starts by removing conflicting data from the tables. The new service pack data is then loaded.
7. The process then repeats for language updates—connect, remove conflicting data, and load new data—this time from the *`MFGPROInstallDir`*`/sp4/spdata/us` directory.
8. When the service pack data loads are complete for the first database you selected, the next database is then connected and the loads repeat (steps 6 and 7) until all selected databases are updated.
9. The Service Pack Data load screen then displays again for the Kanban loads. By default, the `C:\mfgsvr\db\kbprod` directory displays. If this is not where you dumped the Kanban data, modify it. Click OK. The Add Database screen displays.
10. Repeat steps 2 through 8 to complete the Kanban loads.
11. When all databases are updated, click Close in the Service Pack Data load screen.

Truncate Database BI Files

1. Select Database|Truncate Database. The Truncate Database Before Image File screen displays. Enter the path to a database you just modified and choose Truncate.
2. Close the log window that displays on completion.
3. The Truncate Database Before Image File screen displays again. Repeat steps 1 and 2 for each modified database.
4. Close the log window that displays on completion.

This completes the work to update your main databases.

To complete the Service Pack 4 updates for your Oracle environment, continue with “Loading Language-Specific Information” on page 16.

Loading Language-Specific Information

Important Complete the following steps for both Progress and Oracle databases. These changes are to the Compile database set only.

After installing the service pack language CD, your installation directory may contain the following updated language-specific files in the `\spx\yy` subdirectory, where x is your service pack number and yy is your two-letter language code:

- `xdc_mstr.d:` Language-specific database dictionary labels.
- `xdc_mstr_upd.d`: SP4 delta language-specific database dictionary labels.
- `utcompil.wrk`: Required compile list to implement the language updates.
- `<fieldhelp>.fhd`: Language-specific help updates.

Update the Compile Database Set Schema Labels

For all non-English language installations, use these steps to update your compile database schema labels.

Warning Label customizations in your existing compile database set may be lost when you copy or load the service pack information. Take the appropriate steps to back up and restore your customizations as needed.

Use the following instructions to update the translated schema labels in your existing language-specific compile database set. This procedure uses the delta SP4 file, `xdc_mstr_upd.d`. If you are upgrading from eB or prior versions, or

simply want to complete a full load of the `xdc_mstr`, you can follow the same steps using `xdc_mstr.d`:

1. In MFG/UTIL select Database|Load Translated Labels.
2. In the Connect Database screen, specify the path and name of the language-specific database in the Physical Name field. Choose OK to continue.
3. After a connection is made, specify the path to the service pack installation directory that contains the `xdc_mstr_upd.d` data file.
4. Choose OK to begin loading the translated labels.
5. Continue your service pack installation up to “Compile SP4 Code” on page 18. When you reach this section, compile the service pack code as instructed. You must then perform a second compile using the `utcompil.wrk` that was copied in your language directory along with the `xdc_mstr_upd.d` file.

Installing Host Clients or Client File Servers

On UNIX systems, the host client is the only installation required for UNIX character clients. All other UNIX clients connect to the host via telnet to run the client scripts.

On Windows, the first client installed, character or GUI, is called the file server because it contains the MFG/PRO eB2 source code. It is this client or file server where the code is compiled, the database sets are defined, and the original scripts are generated. Additional clients that connect to Windows file servers are called remote clients. The remote clients require no modifications for SP4.

1. Mount your SP4 character or GUI client installation media.
2. On the CD, change to the directory containing the client.
3. Change to the `install` directory:

   ```
   cd install
   ```
4. Launch the database server installation script in that directory:

   ```
   ./install.ksh
   ```

   For Windows, run `install.exe` from Run on the Start menu.
5. Accept the license agreement and follow the prompts:
   - Installation log location
   - Progress installation directory
   - Original MFG/PRO eB2 client installation directory (by default this is the same as the *`MFGPROInstallDir`*)
   - Location of SP4 directory (a subdirectory within the client directory)

6 Choose the Finish button and press Enter to begin copying the files.

7 For UNIX and Windows character installs, check `mfgchrclsp.log` for errors. For Windows GUI installs, check `mfgguiclsp.log`.

8 Remove the media.

Modify Database Sets and Scripts

If you created a new empty database for compiles, enter the new database or schema holder name using the following steps. In addition, use these steps to create a database set for your new SP4 production, test, and training databases.

For further information, see the appropriate MFG/PRO eB2 installation guide.

Progress Database:	*Oracle Database*:
“Configuring Database Sets” on page 62	“Configuring Database Sets” on page 72
“Generating Scripts and Shortcuts” on page 72	“Generating Scripts and Shortcuts” on page 82

1 In MFG/UTIL, select Configure|Database Set Maintenance.

2 Use the updated databases to create new database sets.

3 Modify the PROPATH for each set so that the SP4 directory appears first.

4 Save and exit from Database Set Maintenance.

5 Select Scripts|Generate Scripts.

6 Select all database sets for which you need new scripts.

Compile SP4 Code

The minor differences between the SP4 compile procedure and the standard compile are noted in the following steps.

For further information, see the appropriate MFG/PRO eB2 installation guide.

Progress Database:	*Oracle Database*:
“Compile” on page 68	“Compile” on page 77

1 In MFG/UTIL, select Programs|Compile Procedures.

2 Select the compile list, `utcompil.wrk`, from the following directory:

`MFGPROInstallDir``/sp4/modlist`

3 Set the compile destination to the SP4 directory, *`MFGPROInstallDir`*`/sp4`.

4 Compile the programs.

5 Check `mfgutil.log` for errors.

6 Launch MFG/PRO using the new scripts.

7 Verify that the MFG/PRO eB2 welcome screen displays eB2 SP4.

Nothing is required to connect and use existing remote clients against the revised SP4 environments.

Updating the Help Database

Service packs after SP2 include a `kb_help.fhd` file to update your help database. The file is different in Service Pack 3; if you are only upgrading from SP3 to SP4, you should still complete the help load. Use the following steps to load it into your SP4 databases:

1 Launch MFG/PRO.

2 Go to Field Help Load (36.4.19).

3 In the Language field, enter the MFG/PRO language code of the language that you are loading help for, and press Enter.

4 Skip to Field Help Load File, leaving all other fields blank, and enter the two-letter language code directory followed by the name of the help file. For example, for U.S. English, enter `sp4/us/kb_help.fhd`.

5 Accept the default values in all other fields.

6 Press Go to begin the load process.

As the load proceeds, the number of records that have been read and loaded displays at the bottom of the screen.

7 Load help for any other languages in your environment using the appropriate language code and help file.

Access Revised Help Information

Updated help is available in character mode only. If your configuration includes Windows GUI clients, perform these additional steps to make the character-based help viewable from those clients:

1 Open User Maintenance (36.3.18).

2 For each user accessing the new functions, set WinHelp to No.

3 Press Go to save the changes.