

*Industry-specific*

**QAD SOLUTIONS**

*Manufacturing Applications*

**Installation Guide  
MFG/PRO eB2 Service Pack 2**



MFG/PRO eB2  
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## Contents

<i>Overview</i>	<b>2</b>
<i>Prior to Installation</i>	<b>4</b>
<i>Installing Database Server Files</i>	<b>5</b>
<i>Loading Schema Changes</i>	<b>6</b>
<i>Updating Server Data</i>	<b>8</b>
<i>Installing Host Clients or Client File Servers</i>	<b>8</b>

## Overview

This document is a simplified set of steps for installing Service Pack 2 (SP2) 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 SP2 install directory.
- Load schema changes.
- Process service pack data in MFG/UTIL.
- Install client media (character or GUI) to the SP2 install directory.
- Compile service pack files.
- Revise database sets.
- Generate client scripts.

The process requires the following CDs:

- Database Server
- Language Files, for each language ordered
- Character Client, UNIX and Windows
- GUI Client, Windows

## Service Pack Tests and Install Reversals

If you have a test environment, QAD recommends you complete the installation against your test system 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. To restore your original environment, remove the service pack directory from the *PROPATH* and reload the *dumpname.del* files.

## 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 format in the *svcpack/spinfo/web/relnotes* directory on each service pack CD. 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 *svcpack/spinfo* directory on each service pack CD. 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.

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

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*Progress Database:*

“System Requirements” on page 25

*Oracle Database:*

“System Requirements” on page 25

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

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**

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*Progress Database:*

“Preliminary Steps” on page 30

*Oracle Database:*

“Preliminary Steps” on page 30

- Set your `$TERM` variable to a standard terminal type such as `vt100` or `vt200` while installing MFG/PRO. You can switch to a language-specific terminal if necessary when you launch the clients.
- Determine the following information:
  - The MFG/PRO installation directory where eB2 is installed, referred to 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 SP2 database server and language file media. For UNIX environments, all steps assume you are logged on as user `mfg` under the group `qad` unless otherwise stated.

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

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*Progress Database:*

“Installing Server Files” on page 32

*Oracle Database:*

“Installing the Database Server” on page 37

- 1 Mount your SP2 database server installation media.
- 2 On the CD, change to the directory containing the database server 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 leave the default directory or the directory you used for the original eB2 installation. This ensures subsequent installations can locate the log directory with all relevant eB2 install information. If you used the default eB2 directory, you can use the default SP2 directory.
- 7 If you choose Yes to view the SP2 installation instructions online, your default browser launches and displays service pack and Q/LinQ warnings. Follow the links to the service pack information and to the installation instructions.  

If you choose No, the warnings regarding the SP2 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`)
  - SP2 installation directory (`MFGPROInstallDir/SP2`)
- 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 SP2 files. Enter No to reenter installation information.
- 11 Remove the database server media, insert the language file media, and repeat steps 2 through 8 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:

“Installing Language Files” on page 35

Oracle Database:

“Installing Language Files” on page 39

## Loading Schema Changes

Minor schema changes in SP2 correct default date values and column widths. These changes must be implemented in Oracle environments using files on the service pack.

**Important** These changes are not required in Progress environments.

To complete these updates, you must run the appropriate SQL script to update the Oracle database schema; then update or re-create your system schema holders using the service pack .df files.

### Update the Oracle Database Schema

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

- 1 Choose the appropriate SQL script:
  - MFG/PRO eB2 environments use `eB2toSP2.sql`.
  - MFG/PRO eB2 Service Pack 1 environments use `eB2SP1toSP2.sql`.

Both scripts are located in `MFGPROInstallDir/sp2/ora/db`.

- 2 Connect to the Oracle database as the database owner, typically `qad`.

- 3 Run the appropriate script.

**Example** `sqlplus qad/qad <eB2toSP2.sql`

### Update the System Schema Holder

**Important** Base MFG/PRO eB2 environments require a new schema holder. Use `oraempty.df` to create new system schema holders.

Use these steps to update your Service Pack 1 environment schema holders using the Progress Data Administration tool or Data Dictionary.

- 1 Launch the Progress tool and connect to your schema holder.
- 2 Choose Admin|Load Data and Definitions|Data Definitions (.df files).
- 3 At the prompt specify the `eB2SP1toSP2.df` file in:

`MFGPROInstallDir/sp2/ora/db`

- 4 Begin the data load process.

## Loading Language-Specific Information

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`: Complete set of language database dictionary labels.
- `xdc_mstr.upd.d`: Service pack updated schema label information.
- `utcompil.wrk`: Required compile list to implement the language updates.
- `fieldhlp.fhd`: Language-specific help updates.

### Update the Compile Database Set Schema Labels

If your service pack language installation included the `xdc_mstr.upd.d`, use these steps to update your database schema labels. You must update the translated labels in your compile database set before you compile the service pack code.

**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.

For future use, copy the service pack `xdc_mstr.d` file to your MFG/PRO eB2 language-specific installation directory. Use this file the next time you need to create a compile database set.

Use the following instructions to update the translated schema labels in your existing language-specific compile database set:

- 1 Start MFG/UTIL.
- 2 From MFG/UTIL, select Database and choose Load Translated Labels.
- 3 In the Connect Database screen, specify the path and name of the language-specific database in the Physical Name field. Choose OK to continue.
- 4 After a connection is made, specify the path to the service pack installation directory that contains the `xdc_mstr_upd.d` data file.
- 5 Choose OK to begin loading the translated labels.
- 6 Continue your service pack installation up to “Compile SP2 Code” on page 9. 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.d.upd.d` file.

### Update the Help Database

If your service pack language installation included a `fieldhlp.fhd` file to update your help database, refer to your MFG/PRO eB2 installation guide for instructions on loading this file.

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

*Progress Database:*

“Loading Online Help” on page 88

*Oracle Database:*

“Loading Online Help” on page 96

## Updating Server Data

In the next set of steps, you update and verify the server data. The update process identifies which tables and data require modification from *dumpname.key* and *dumpname.d* files supplied with SP2. Obsolete data is dumped to *dumpname.del* files and deleted from the target databases; the new data is then loaded.

- 1 In MFG/UTIL, select Database|Process Service Pack Data. Your existing eB2 databases should appear as defaults.
- 2 Select each database you want to update, both main (*qadddb*) and administration (*admin*) databases.
- 3 Click OK. This initiates the dump, deletion, and load process.
- 4 Check *mfgutil.log* for errors.
- 5 Check *mfgdbsvsp.log* for errors.
- 6 For each database updated, a directory is created under the *db* directory with the database name in the directory name. This directory contains the *dumpname.del* files. Each *dumpname.del* file represents your backup of current data prior to performing the SP2 updates.
- 7 Review the *dumpname.del* files to verify that tables and data have been dumped.

## 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 SP2.

- 1 Mount your SP2 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 SP2 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.

## Compile SP2 Code

The minor differences between the SP2 compile procedure and the standard compile are noted in the following steps.

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

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*Progress Database:*

“Compile” on page 68

*Oracle Database:*

“Compile” on page 77

- 1 Launch MFG/UTIL:  

```
./mfgutil
```

In Windows, double-click the GUI or character MFG/UTIL icon.
- 2 Select Programs|Compile Procedures.
- 3 Select the compile list, `utcompil.wrk`, from the following directory:  

```
MFGPROInstallDir/sp2/modlist
```
- 4 Set the compile destination to the SP2 directory, `MFGPROInstallDir/sp2`.
- 5 Compile the programs.
- 6 Check `mfgutil.log` for errors.

## Modify Database Sets and Scripts

Remain in MFG/UTIL for this set of steps.

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

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*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 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 SP2 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.
- 7 Launch MFG/PRO using the new scripts.
- 8 Verify that the MFG/PRO eB2 welcome screen displays eB2 SP2.

Nothing is required to connect and use existing remote clients against the revised SP2 environments.