Installation Guide

QAD Multi-Level Pegging

78-0657A
MFG/PRO Version eB2.1
December 2006

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CHAPTER 1

Introduction

Overview

Use this guide to install MLP with MFG/PRO on a UNIX, Linux, or Windows server. Windows installations support character clients only. For graphical interfaces, run QAD Desktop.

These instructions are for the system administrator who manages the database and is familiar with the installation operating system, networking, and Progress.

System Requirements

These are the minimum software requirements:

- The current patches for your operating system.
- MFG/PRO version eB2.1, Service Pack 5
- Progress version OE10.1A

Set up your network to support the Progress specifications. Minimum requirements from the MFG/PRO standpoint are: 10 Megabit (Mb) Ethernet or faster network

Preliminary Steps

Prior to installation, review the following:

- Set your $TERM variable to a standard terminal type such as vt100 or vt200.
- Create services on your servers for the MLP databases, `mlpempty` and `mlpprod`.
- Determine the following information:
  - The Progress directory
  - The host name for the database server

CHAPTER 2

MLP Installation for eB2.1

Installing MLP

In this set of steps, you mount the MLP media and copy the files to the server. Choose the steps for the media you received.

Mount the CD (Unix Only)

1. Log on as mfg.
2. Mount the CD-ROM. Example commands are listed in this table.

Hardware	Mount Command
Sun	`volcheck cdrom`
HP	`/etc/mount -F cdfs /dev/dsk/`*`YourCDDevice`*` /cdrom`
Digital	`mount -r -o noversion -t cdfs /dev/`*`YourCDDevice`*` /cdrom` Then select file system, directory, and file system type (cdrfs).
AIX	`smitty mountfs`
Linux	`mount /dev/hdb /mnt/cdrom` Where /hdb could be hdc or hdd among other possibilities.

Hardware	Mount Command
All others	Refer to your operating system documentation or vendor for requirements to mount a CD-ROM. You may be able to type man mount to determine the correct command.

Install Files from CD

Complete this section to install the MLP files on your server.

1. In UNIX, log on as user mfg under the group qad. On Windows, log on as an Administrator.
2. On the CD, change to the directory containing the media. This is the temporary tape directory for tape installs.
3. Change to the install directory:

   ```
   cd install
   ```

4. Launch the installation script in that directory:

   ```
   ./install.ksh
   ```

   In Windows, launch `install.exe` from the Windows Explorer.

5. A welcome screen displays. Press Enter.

   ```
   Welcome to QAD's MLP for eB2.1 installation.
   We are installing MLP for eB2.1 for hpux.
   Press <Enter> to view license agreement.
   ```

6. Accept the software license agreement. Press Ctrl+C to jump to the end of the agreement.

   ```
   Do you accept all the terms of the preceding License Agreement?
   If you choose No, the install will stop.

   To install MLP for eB2.1 , you must accept this agreement.
   (y/n)?

   Default is n

    ->y
   ```

7. The system prompts for a location for the log files. Accept the default or enter the installation log file location. If you enter a different log file location, make note of it for later installations.

```
Please enter location where the log file should be written.
Default is /home/mfg/instlog
 ->/home/mfg/instlog
```

On Windows systems, the default is `c:\instlog`.

Information about this installation is recorded in this log directory.

8. Enter the Progress installation directory path or accept the default.

   The script verifies the location and version. Specify Yes to confirm.

   The message Installing MLP displays.

9. Enter the path and directory where you want to install MLP (*`MLPInstallDir`*). By default, the installation is to `/mfgproinstalldir`. In Windows, this is `c:\mfgproinstalldir`. If this directory does not exist, it is created.

   The following message displays:

   ```
   Please enter the destination location for this installation
   Default is /mfgproinstalldir
    ->
   ```

   The system then asks you to confirm the MLP installation directory.

10. Respond No to the question regarding an Oracle database; MLP requires a Progress database.

11. Review the summary and confirm by entering `Yes` and pressing Enter. If you respond `No`, the script redisplays the installation questions.

Note Press Enter in response to the browser question.

12. When the files finish copying, press Enter to end the script.

MLP Guided Setup

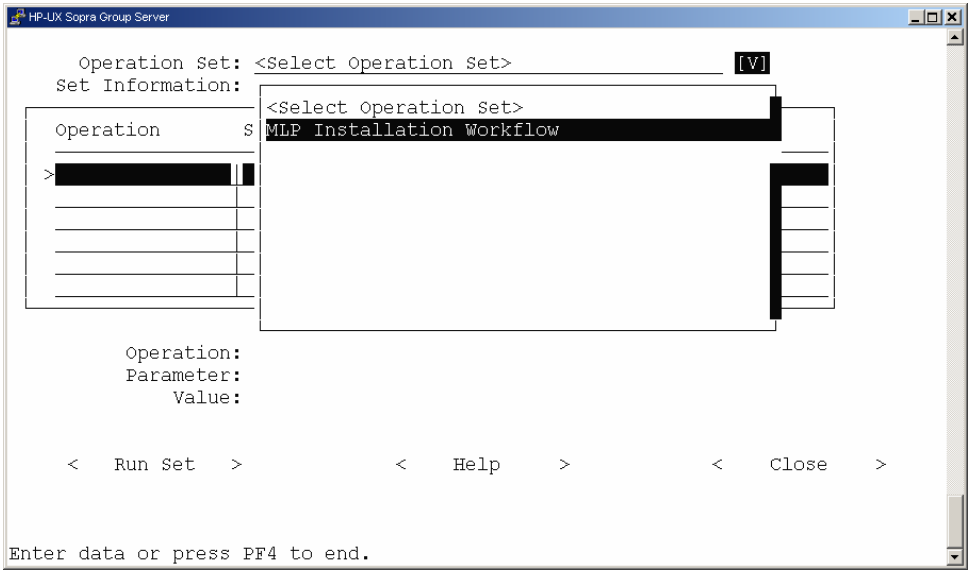
In the following section, you create the empty MLP production database from the default structure files. You will then use the empty database as a template to build your production databases.

1. Launch MFG/UTIL from *MFGPROInstallDir* using the following command:

   ```
   ./mfgutil
   ```

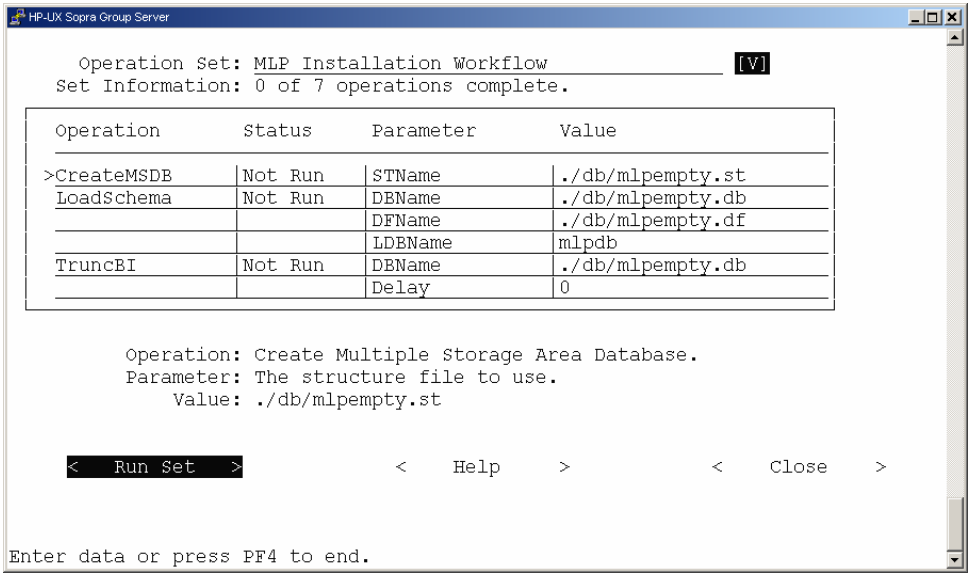
2. Choose MFG/PRO Guided Setup from the Configure menu.

3. Select MLP Installation Workflow in the Operation Set list box.



The MFG/PRO Guided Setup program provides a workflow of the operations required to set up your MLP environment. You can use this program to access the different configuration utilities in MFG/UTIL with proper default information and in proper sequence. Review the following figure to become familiar with the Guided Setup screen.

Note The number of operations is determined by the number of uncommented sections in `wkmlp.ini`.



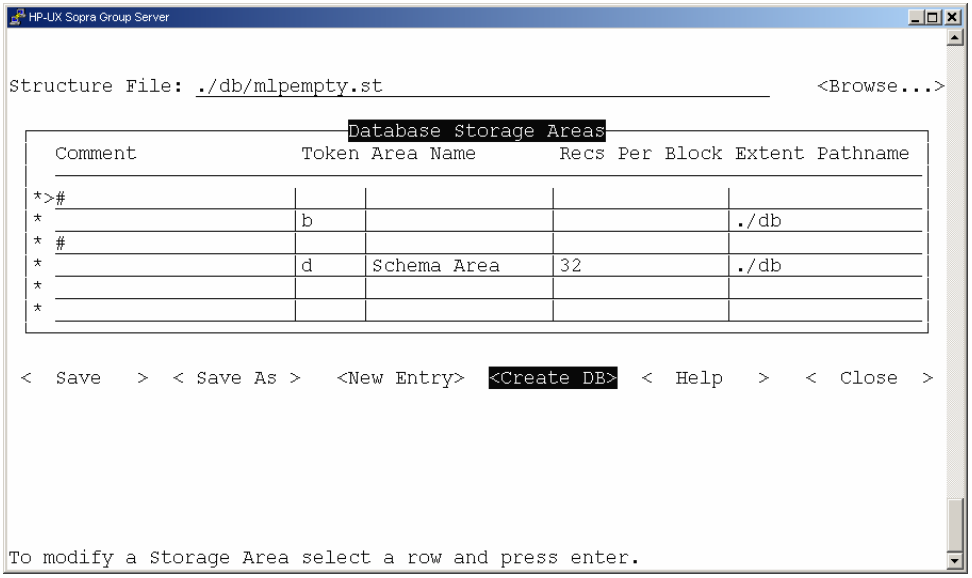
Operation sets are groups of installation activities. The system displays the operations in a set in the Operation frame. On completion, the status changes to Done. If errors occur or if you cancel processing prior to completing a step, the status is Error. Below the Operation frame, the system displays the operation, the key variable required, and default value for that variable display.

If you stop the workflow and an Error status is written to a step, this is the first step run when you restart the operation set.

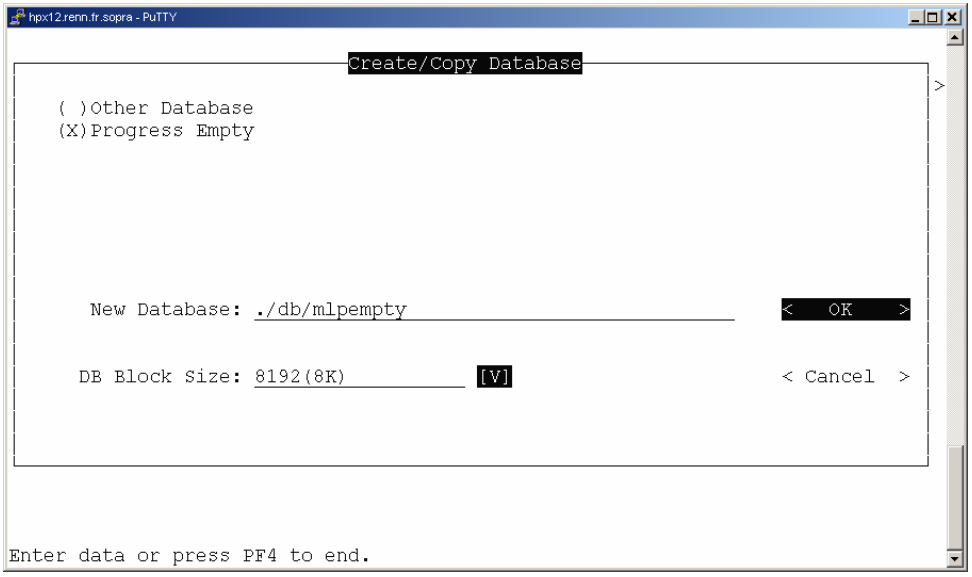
4. Choose Run Set and press Enter.

Create the Empty MLP Database

1. The QAD Database Builder screen displays with the default empty structure file, `./db/mlpempty.st`. Generally, you do not need to edit this file for the empty databases. Choose Create DB.



2. In the Create/Copy Database screen, verify that Progress Empty is selected and accept the defaults in the New Database and DB Block Size fields.

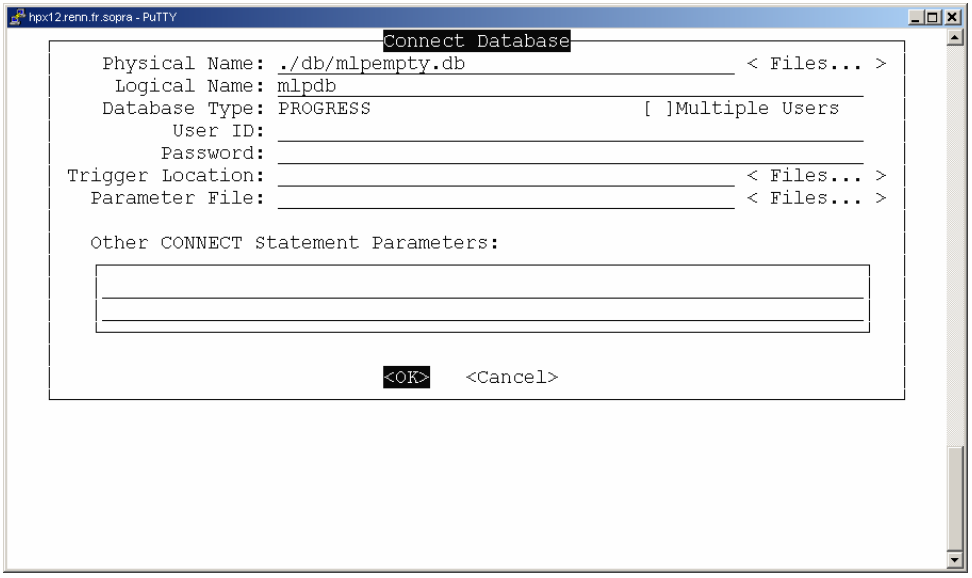


3. Choose OK to build the main empty database, `mlpempty`.

4. When `mlpempty` is built, a log of the database build process displays.

   Choose Close to exit the log window.

5. After you close the Edit Structure File/Create Database screen, the Connect Database screen displays. Accept the defaults and choose OK to connect to `mlpempty`.

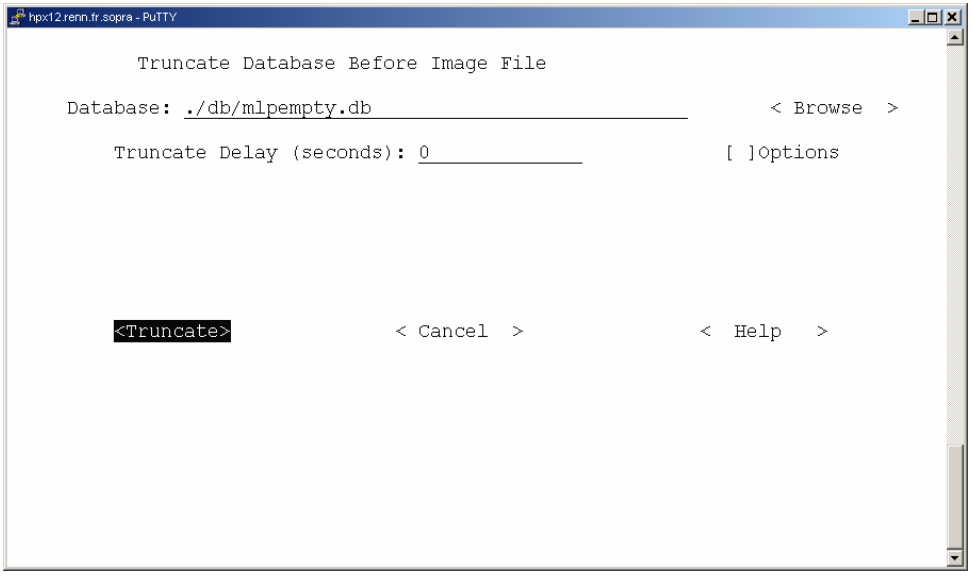


6. The default data definition file displays. Choose OK to begin loading the database schema.

   Choose Close twice: to exit the log window and exit the `.df` file window.

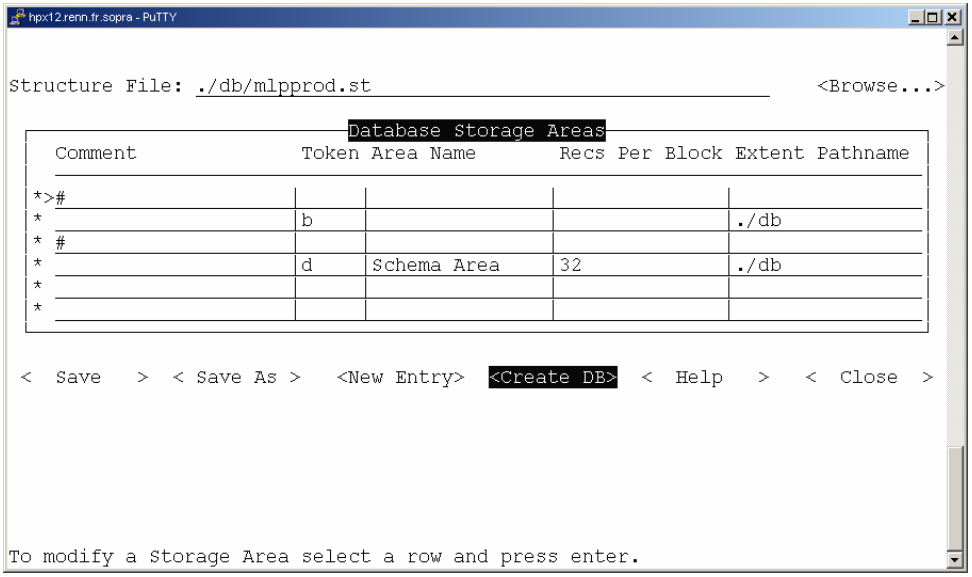
7. In the Truncate Database Before Image File screen, accept the default path to `mlpempty` and choose Truncate.

   Choose Close to exit the log window.



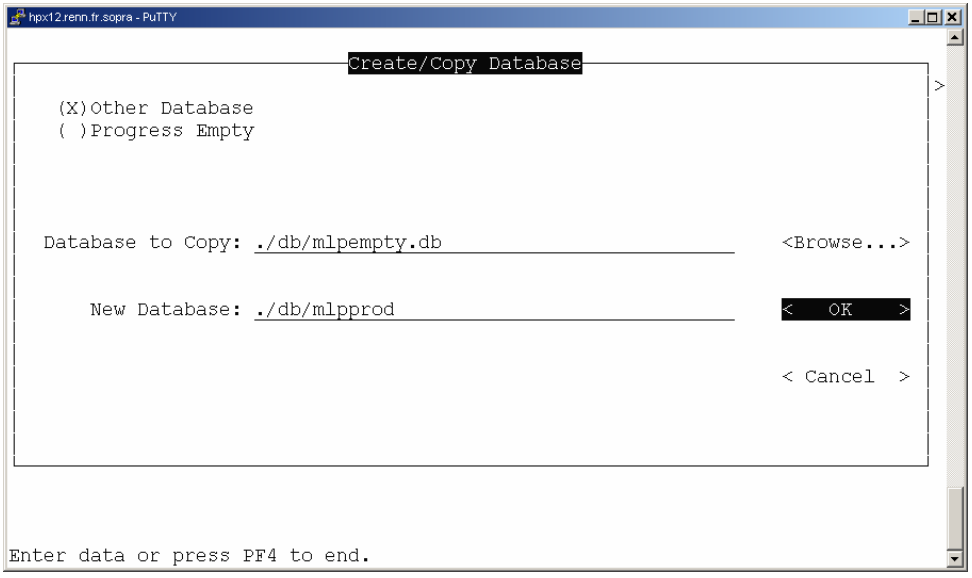
Create Production MLP database

1. In the Structure File Edit screen, a structure file for the production database, `mlpprod.st`, defaults in the Structure File field. The MFG/UTIL screen that displays lets you assign disk locations and sizes to your storage areas.
2. Edit the storage area definition. Typically you would edit only the Storage Area Path and Extent Size (on fixed-length extents).
3. Choose OK to save the edits.
4. Chose Create DB to save your entries and close the screen.



5. The Create/Copy Database screen displays. Select Other Database and verify the path to `mlpempty.db`. Choose OK. The New Database name defaults from the `.st` file name. You can enter a different database name here if you choose.

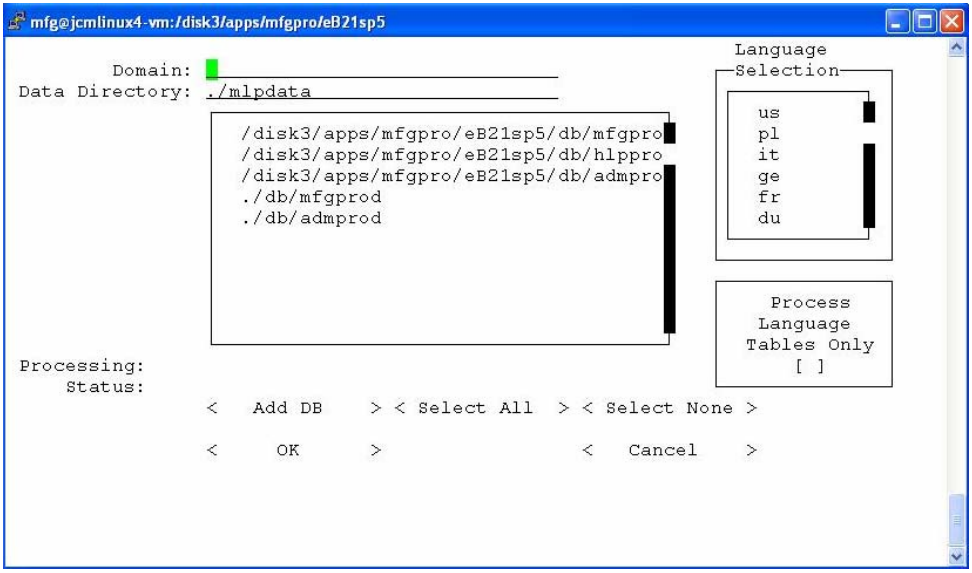
   Choose Close twice: to exit the log window and exit the Database Storage window.



Load System Data

In this task, you load the default system data, such as menu and message files, into each database.

After the Database Storage Areas screen closes, the Processing Service Pack Data screen displays.



You need to be aware of the following sections of the screen:

Data Directory	This is the directory where the service pack data or the MLP data is located. You can change this directory.
Language	This is where the you can select or deselect which language to process.
Process language tables only	This option is used for loading new language tables. If you previously installed the MLP data and want to add a new language to the system, this option ensures that only the language tables are loaded.
Database window	This lists the databases that can be processed. Use the cursor and space keys to select or deselect the databases to be processed. You can add new databases to the list using the Add DB button.

To load the base data, use the following steps:

1. Change the directory defined in the Data Directory fields to the directory where the MLP data was installed: *`MLPInstallDir`*`/mlpdata`.

2. Next, select the languages that should be loaded. A number of language files are included on the MLP installation CD. Select only the languages that have been installed into the MFG/PRO database.

3. Ensure that the Process Languages Tables Only box is unchecked.

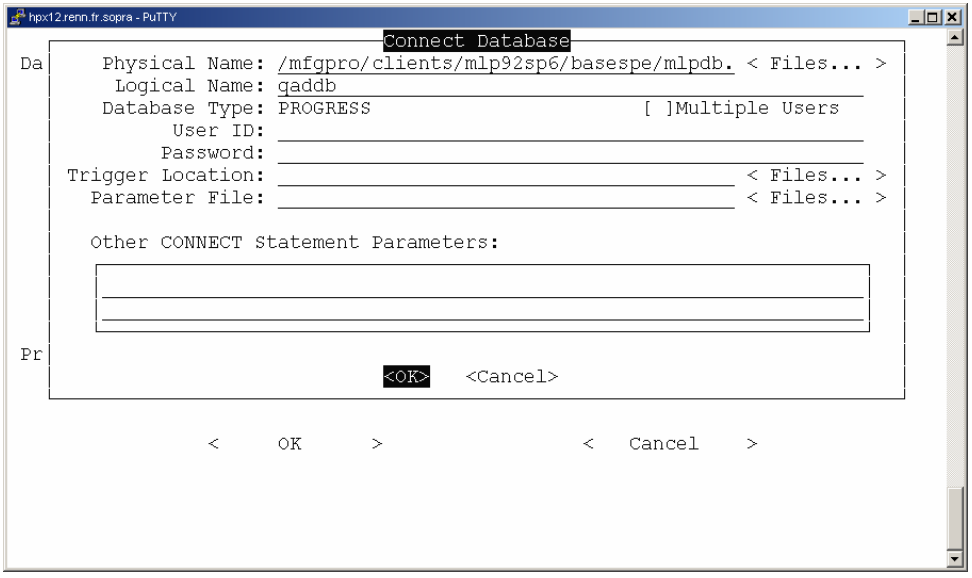
4. Select the databases that require the MLP data. If the databases are not included in the list, then add the databases to the list and ensure that the databases are selected. The only databases in a database set that will require processing are the main MFG/PRO database as well as the administration database and MLP database. The help database will not require processing.

5. Check the settings on the screen to make sure that everything is correct. If so, then press Go or move the cursor to the OK button and press the return key.

   This will start the deleting and loading of data. The program will connect to each selected database in turn. When the database is connected to, the user will be presented with the standard Progress database connection screen:

   Note Since MLP does not require that any records be deleted, no key files are necessary and you can ignore this message in the log file:

   ```
   No tables match the key files in
   <MFGPROInstallDir>/mlp/mlpdata.
   ```



The physical name and the logical name of the database will be filled in. Users must select any other connect options before proceeding. Once users confirm the database connect settings, the program proceeds to connect to the database.

Note The databases should be connected to in single-user mode. While it is possible to connect to the database in multi-user mode, it is not advisable to

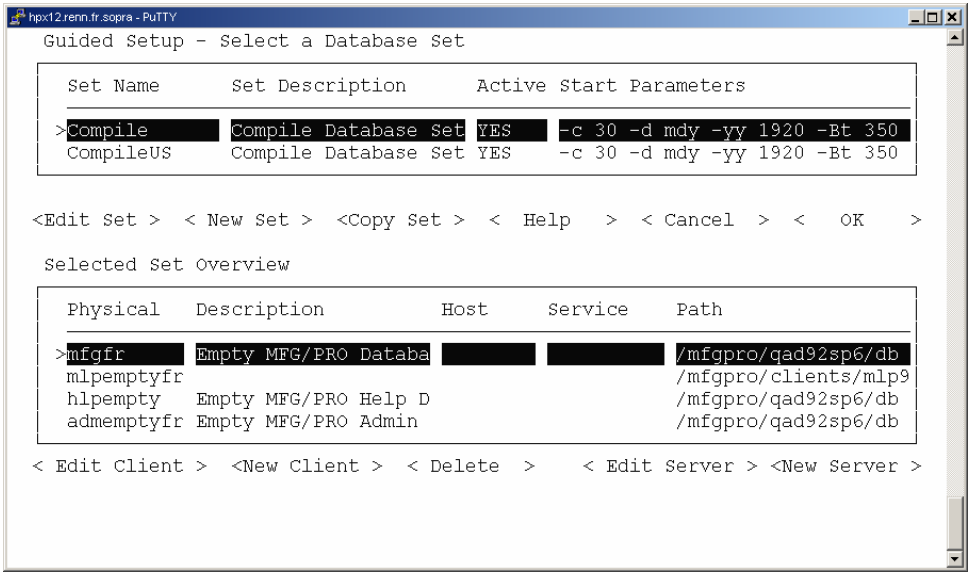
upgrade a database in this way. For more information on multi-user database access, please consult the Progress Database Administration guide.

Once the database connection is established, the processing program loads the MLP data into the database.

Configure Database Set

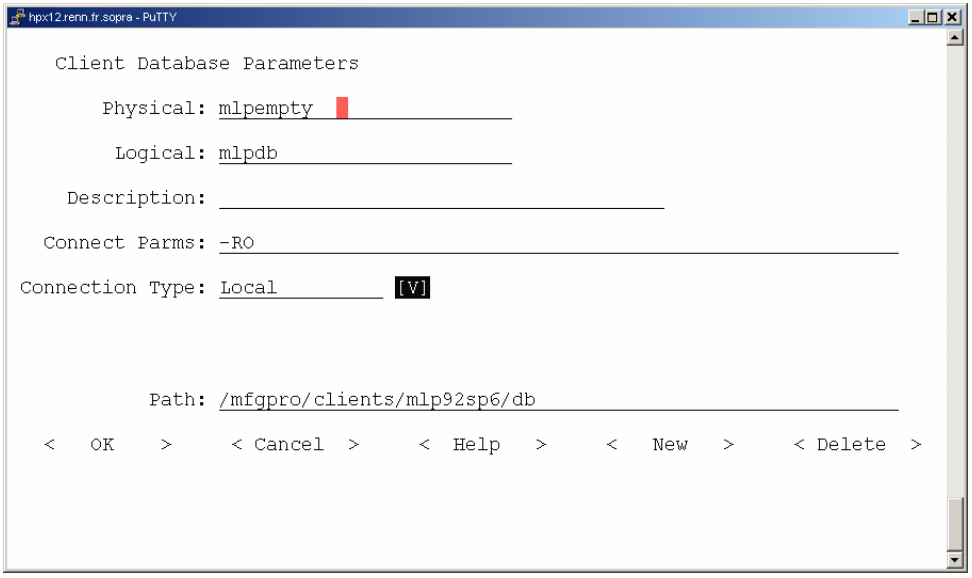
In this task, you define the databases used to compile MLP programs.

After the previous screen closes, the Configure Database Set screen displays.



1. Select the Compile Database Set in the top frame; then Tab to the Selected Set Overview window. If an MLP database is displayed there, select it and choose Edit Server. Otherwise, choose New Server.

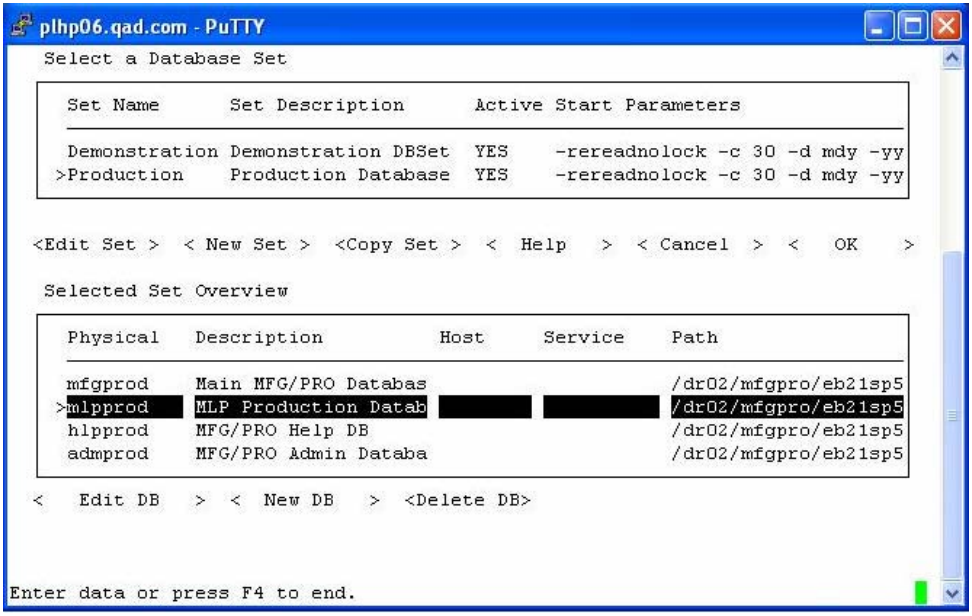
2. The Server Database Parameters screen displays.



Verify the entries using the screen and field descriptions. When finished, choose OK.

Physical	Enter the physical database name. For the Compile database set, this is `mlpempty`.
Logical	Enter the logical database name for `mlpempty`: mlpdb.
Connect Param	Enter –RO to connect in Read-Only mode.
Connection Type	Enter Local.
Path	Enter the full path to the database.

3. Update the Production database set in the same way for `mlpprod`.



4. Tab to the top frame again. With Production Database Set selected, choose Edit Set. Add the *`MLPInstallDir`* to the PROPATH and choose OK.

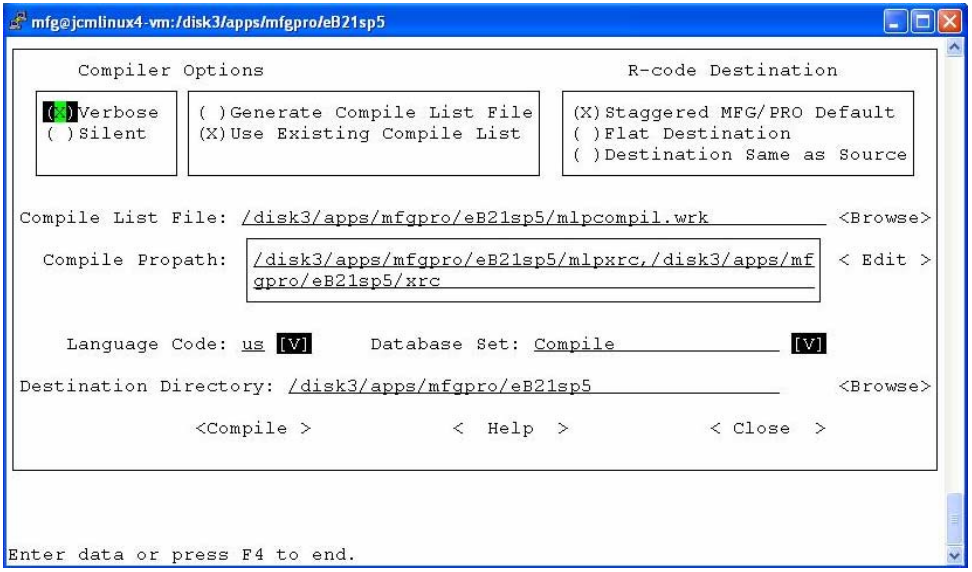
5. When you complete the configuration of all applicable database sets, return to the main Database Set Maintenance window and choose OK to save your work.

Note If you install MLP in a non-US language, you need to create the `mlpempty` database for this language and load the language specific schema into it. Refer to the section on non-US installs for more information.

Compile MLP Code

A full compile of MLP code is required. Compiling a source file creates an object file with the same name and the `.r` extension. Compiled programs are saved into a subdirectory using the first two letters of the program name. This subdirectory is located below the two-letter language code directory below *`MLPInstallDir`*. For example, `mlpworp.p` compiled for U.S. English is placed in *`MLPInstallDir`*`/us/ml`.

1. The Compiler Options screen displays automatically. Use the screen example and field descriptions to select compile options. The Compiler Options in the upper left of the screen let you set feedback levels and select a compile list.



2. When ready, choose Compile.
3. In the compile verification screen, verify the compile information. If the compile settings are correct, choose Continue. If the settings are incorrect, choose Back to make changes.
4. When the compile is complete, check for errors in the log window, and choose Close.

Setting Up MLP with MFG/PRO

Generate scripts

Follow those additional steps to generate the scripts:

1. In MFG/UTIL, choose Generate Scripts from the Scripts menu.

2. Select the Production database set and Demonstration if required, and choose OK. The Compile database set does not require a start script since it is only used during compiles.
3. You are asked to confirm the script generation. Choose Yes.
4. The log window displays progress. When the process completes, choose Close.

Non-US Installation

The following are the steps to create a single-language installation that is not a U.S. English installation:

- Copy empty MLP databases to an empty language-specific database.
- Load translated labels into this empty database for translated validation messages and logical values.

Create Language-Specific Empty Database

Make a copy of the `mlpempty` database created previously:

```
cd MLPInstallDir/db
DLC= ProgressInstallDir; export DLC
$DLC/bin/procopy mlpempty mlpempty<lg code>
```

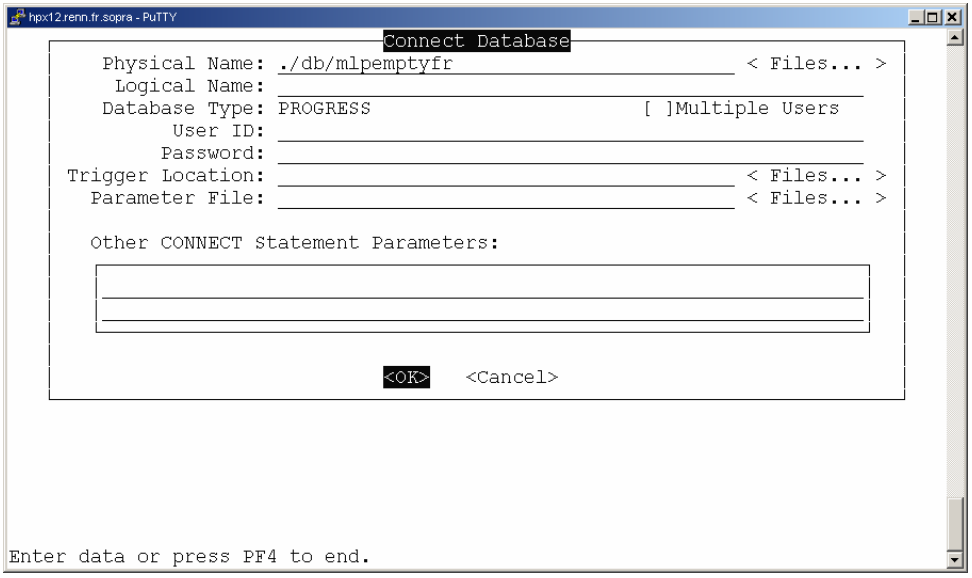
For example, for a French install:

```
cd /mfgpro/mlp92sp9/db
DLC=/progress/dlc9.1D; export DLC
$DLC/bin/procopy mlpempty mlpemptyfr
```

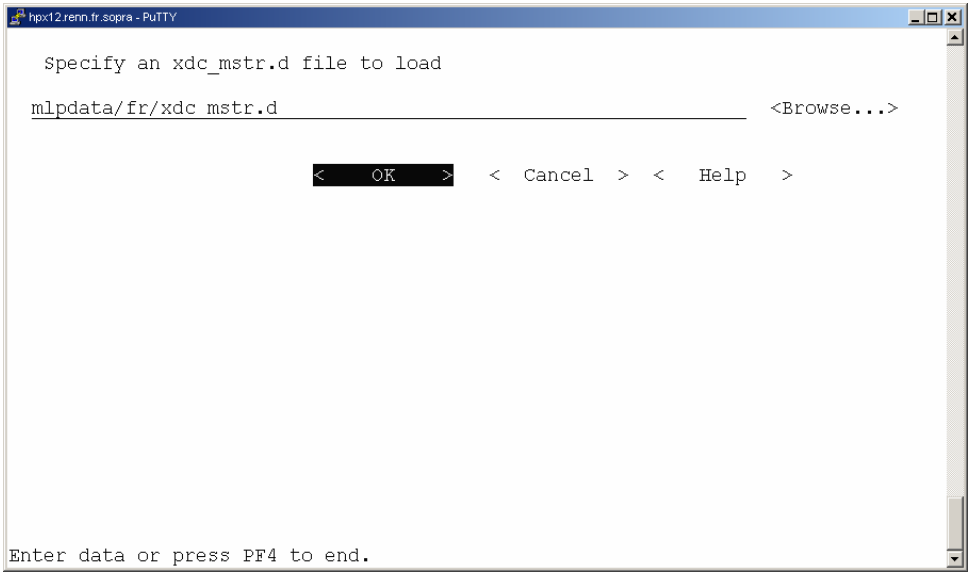
Load Translated Labels

Start MFG/UTIL, choose Database ➔ Load Translated Labels:

1. In the Connect Database screen, enter the correct empty database. Choose OK.



2. Enter the location of the `xdc_mstr` file here. It is located in the language directory of each language under `mlpdata` (only FR for the moment). Choose OK to start the load.



3. The load completes. Choose OK to close the load window.