



Note

Before using this information and the product it supports, read the information in [Notices](#) on page 49.

This edition applies to version 8.0.7, release 6, modification 1 of IBM Prospect and to all subsequent releases and modifications until otherwise indicated in new editions.

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INSTALLATION GUIDE
IBM Prospect 8.0

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1 About This Documentation

The *Installation Guide* provides instructions for installing IBM Prospect® software, which includes software for the IBM Prospect server and the IBM Prospect client. This guide is customized to support IBM Prospect 8.0 (8.0.7).

Important! If you are installing the IBM Prospect server for the first time, the computer on which the IBM Prospect server will be installed must be set up according to the *IBM Prospect Server Preparation Guide*.

This guide was last updated July 2, 2010.

Please refer to the current release notes on this product for a list of revision dates for all IBM Prospect publications.

1.1 Audience

This guide is intended for experienced system administrators, database administrators, installers, or supervisors who are responsible for setting up and configuring IBM Prospect software. In general, the reader of this guide is referred to as "you." By contrast, "we" refers to the IBM Prospect development and technical staff who support this product.

1.2 Required Skills and Knowledge

This guide assumes you are familiar with the following:

- Sun Microsystems hardware
- Local area network (LAN) and wide area network (WAN) connectivity
- Sun Microsystems Solaris operating system, as a system administrator
- Oracle database software, as a database administrator
- Microsoft Windows operating systems

1.3 Document Conventions

This document uses the typographical conventions shown in the following table:

Table 1: General Document Conventions

Format	Examples	Description
ALL UPPERCASE	<ul style="list-style-type: none"> • GPS • NULL • MYWEBSERVER 	Acronyms, device names, logical operators, registry keys, and some data structures.
<u>Underscore</u>	See Document Conventions	For links within a document or to the Internet. Note that TOC and index links are not underscored. Color of text is determined by browser settings.
Bold	<ul style="list-style-type: none"> • Note: The busy hour determiner is... 	Heading text for Notes, Tips, and Warnings.
SMALL CAPS	<ul style="list-style-type: none"> • The STORED SQL dialog box... • ...click VIEW... • In the main GUI window, select the FILE menu, point to NEW, and then select TRAFFIC TEMPLATE. 	Any text that appears on the GUI.
<i>Italic</i>	<ul style="list-style-type: none"> • A <i>busy hour</i> is... • A web server <i>must</i> be installed... • See the <i>User Guide</i> 	New terms, emphasis, and book titles.
Monospace	<ul style="list-style-type: none"> • <code>./winstall</code> • <code>\$ cd /cdrom/cdrom0</code> • <code>/xml/dict</code> • <code>http://java.sun.com/products/</code> • <code>addmsc.sh</code> • <code>core.spec</code> • Type OK to continue. 	Code text, command line text, paths, scripts, and file names. Text written in the body of a paragraph that the user is expected to enter.
Monospace Bold	<pre>[root] # pkginfo grep -i perl system Perl5 On-Line Manual Pages system Perl 5.6.1 (POD Documenta- tion) system Perl 5.6.1</pre>	For contrast in a code example to show lines the user is expected to enter.
<Mono- space italics>	<pre># cd <oracle_setup></pre>	Used in code examples: command-line variables that you replace with a real name or value. These are always marked with arrow brackets.
[square bracket]	<pre>log-archiver.sh [-i] [-w] [-t]</pre>	Used in code examples: indicates options.

1.4 User Publications

IBM Prospect software provides the following user publications in HTML or Adobe Portable Document Format (PDF) formats.

Table 2: IBM Prospect User Documentation

Document	Description
<i>Administration Guide</i>	Helps an administrator configure and support IBM Prospect core server software to analyze network performance and perform other network or database management tasks.
<i>Administrator's Quick Reference Card</i>	Presents the principal tasks of a IBM Prospect core server administrator in an easy-to-use format.
<i>Expressions Technical Reference</i>	Provides detailed information about expressions used in special calculations for reports.
<i>Installation Guide</i>	Instructions for installing and configuring the IBM Prospect software.
<i>Open Interface API Guide</i>	Describes how the Open Interface tool enhances your access to information about database peg counts and scenarios.
<i>Performance Data Reference</i>	Provides detailed information including entity hierarchies, peg counts, primitive calculations, and forecast expressions specific to your organization.
<i>Release Notes</i>	Provides technology-specific and late-breaking information about a given IBM Prospect release and important details about installation and operation.
<i>Server Preparation Guide</i>	Provides instructions for installing and setting up Solaris and Oracle software before you install IBM Prospect software.
<i>Server Sizing Tool Guide</i>	Helps an administrator use the sizing tool to calculate the system space needed for the IBM Prospect software and database.
<i>User Guide</i>	Provides conceptual information and procedures for using IBM Prospect software for performance and trending analysis.

1.4.1 Viewing the Desktop Client Help Publications

To view the desktop client Help publications, select a guide from the HELP menu of the IBM Prospect graphical user interface or press F1 for context-sensitive Help. To update the Help files, click the HELP menu on the IBM Prospect Explorer, and select UPDATE ALL HELP FILES.

When Help files are updated, they are downloaded automatically from the IBM Prospect server to the IBM Prospect client. A message box notifies you when this download occurs.

1.4.2 Viewing the Publications in PDF

All of the user publications are available in Adobe Portable Document Format (PDF). To open a PDF, you need the Adobe Acrobat Reader. You can download Adobe Acrobat Reader free of charge from the Adobe Web site. For more details about the Acrobat Reader, see the Adobe Web site <http://www.adobe.com/>.

1.4.3 Viewing the Publications in IBM Information Center

All of the IBM Prospect publications, including Release Notes, are available online from the IBM Information Center website as follows:

http://publib.boulder.ibm.com/infocenter/tivihelp/v8r1/index.jsp?topic=/com.ibm.netcool_pm.doc/IBM_Prospect_060308.htm

2 Installing IBM Prospect Software

This section explains how to install the IBM Prospect software for the first time. You must follow each section to complete the IBM Prospect installation.

This chapter contains the following topics:

[Before You Begin](#)

[IBM Prospect Server Application Installation Process](#)

[Install the IBM Prospect Server Application](#)

2.1 Before You Begin

Before you can install the IBM Prospect server software, you need to set up the Solaris operating system and the Oracle database software. See the *Server Preparation Guide* for more information.

2.1.1 Prerequisites

This installation requires the following software already installed on your system:

- .NET Framework version 1.1.4322. This .NET Framework can be obtained from the Web.
- Microsoft Excel - one of the following versions: 2002, 2003, 2007
- Adobe Acrobat Reader, available from <http://www.adobe.com>.

2.1.2 Installation Privileges Required

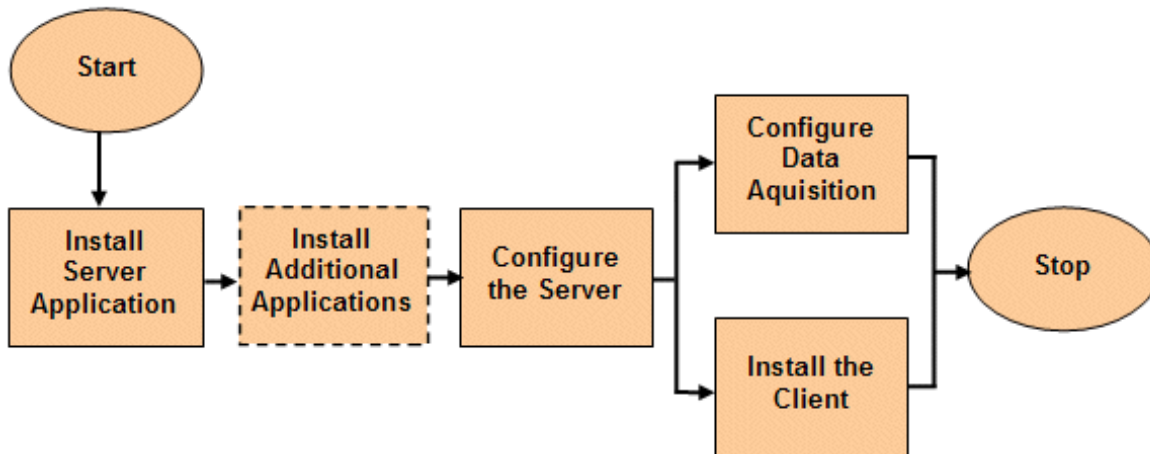
Table 3: Installation Privileges Required

Privilege	Required
UNIX user flexpm in DBA group	Yes
Root privilege required	Yes
Oracle sys user password set to default (change_on_install)	Yes

2.2 IBM Prospect Server Application Installation Process

The following figure shows the procedure for installing IBM Prospect for the first time.

Figure 1: Installing IBM Prospect Server for the First Time



2.3 Install the IBM Prospect Server Application

This section explains how to install the IBM Prospect server package.

2.3.1 Preview the Server Application Installation Package

As a pre-installation check, you can go through the installation steps without overwriting or copying files. This step allows you to identify potential problems, such as insufficient disk space or errors, before the actual installation. Carefully observe the progress of the `-preview` command for error messages. If you have questions about how to resolve unusual errors, contact your customer support representative.

The installation script creates environment variables with certain default values. These environment variables and their default values are:

Environment Variable	Default Value
\$DB_CONNECT	flexpm/flexpm@flexpm
\$FLEXP_HOME	/u01/apps/WatchMark/FlexPM/<wminstalldir>/ProspectBase or /u01/apps/WatchMark/FlexPM/<DirName>/ProspectBase
\$PORT_GROUP	6440

You can override some of these default values for an installation by using optional additional parameters with the `wminstall` command. For information about advanced pre-installation options, see [Appendix A: wminstall Options](#) on page 35.

Note: If this Prospect installation is also accessed by Prospect Web, before running the installation scripts, use the Prospect Web admin tool to disable the corresponding datasource.

To preview the installation of the IBM Prospect server application package

1. Log on as `flexpm` to the computer on which you are installing the IBM Prospect server.
2. Go to the drive containing the IBM Prospect server CD:

```
$ cd /cdrom/cdrom0/wminstall
```
3. Source the `env_vars` file.

The `env_vars` file contains the values for environment variables for your installation. The content of the file is specified during server preparation.

To source the `env_vars` file, execute the following command:

```
./env_vars
```

Note: Sourcing the `env_vars` sets up the environment for the `wminstall` process. Ensure that the values defined are correct for the target host and as required for the planned installation. Command line options to `wminstall` override environment values defined in `env_vars`. For a full list of `wminstall` options and their usage refer to [Appendix A: wminstall Options](#) on page 35. Values that cannot be corrected by arguments to `wminstall` must be set correctly in the environment prior to running `wminstall`, for e.g., `TNS_ADMIN`.

4. Run the installation tool in preview mode by typing the following command on one line only; this command supports both Solaris versions 9 or 10:

```
$ ./wminstall -d <DB_CONNECT> -portbase <PORT_GROUP> -i <INSTALL_DIR>/ProspectBase -preview
```

where `<DB_CONNECT>` specifies the Oracle connection string used to connect to the Prospect database, and `<PORT_GROUP>` specifies the base port. The default values are `flexpm/flexpm@flexpm` for `<DB_CONNECT>` and `6440` for `<PORT_GROUP>`.

Note: If you see error codes, in most cases you need to resolve the issue that caused the error code before you can proceed with the installation. See [Validation Checks](#) on page 45 for details.

2.3.2 Install the IBM Prospect Server Application Package

Perform the following steps to extract the IBM Prospect software from the IBM Prospect server installation CD-ROM. This updates the /u01 file system.

The installation script creates environment variables with certain default values. You can override some of these default values by using optional additional parameters with the `wminstall` command. For information about advanced installation options, see [Appendix A: wminstall Options](#) on page 35.

To install the IBM Prospect package

1. Go to the drive containing the IBM Prospect server CD.

Enter, on one line only, the following command:

```
$ ./wminstall -d <DB_CONNECT> -portbase <PORT_GROUP> -i <INSTALL_DIR>/  
ProspectBase [-r <response file>]
```

where:

- `<DB_CONNECT>` specifies the Oracle connection string used to connect to the Prospect database - the default value is `flexpm/flexpm@flexpm`
- `<PORT_GROUP>` specifies the base port - the default value is 6440
- `<response file>` is the name of a response file. A response file is a text file that contains some or all of the responses needed for an install.

If you are using a response file, the response file must be copied to a local directory. The default response file can be found in the same directory as the installation script:

```
/cdrom/cdrom0/wminstall
```

The default response file contains responses for License Agreement and Start of Week. A response file can be customized by editing the default response file. An example response file can be found in [Appendix C: Sample Response File](#) on page 43. If you are using a response file steps 2 and 3 below may not appear, depending on the responses defined in the file.

Note: If there is not enough disk space on the destination file system, the program stops and reports an error without installing any files.

2. A license agreement is displayed. Use the scroll bar to read the complete text if it does not display in the window. Enter **yes** (case insensitive) to continue with the installation. The installation aborts if you do not enter **yes**.

3. During the installation you are asked to enter a value for the start of the week. This value is used to determine the weekly boundaries for busy hours and summations. Enter the appropriate value (1-7) at the following prompt:

The StartOfWeek values are 1-7 with 1=Monday, ..., 7=Sunday.
Please enter a valid data:

At this point, enter the value: 7

The installation process might take a while to complete. The main terminal where you are running the install command may seem to hang from time to time at the `INSTALL` section for each module. If you want to see the progress of the installation, you can view the log file in `/var/tmp` (with a filename similar to `<YYYY>_<MM>_<DD>_<HH>_<MM>_<SS>`) from another console during the installation.

4. After `wminstall` has completed, examine the `detail.log` or `summary.log` in the directory `$FLEXPM_HOME/audit/<YYYY>_<MM>_<DD>_<HH>_<MM>_<SS>` for any error messages.
5. Check the installation on the system after installation is complete.

```
[flexpm] $ show_installed
```
6. When the file extraction has completed, eject the installation CD from the CD-ROM drive.

```
$ cd ..  
$ eject cdrom
```
7. Log off as `flexpm`

Launching the Installation with the `nohup` Command

If the connection to the machine goes down or if you log off your session during installation, you can avoid database problems by launching the Prospect installation with the UNIX command `nohup`. Because the `nohup` command doesn't support interactive commands, you *must* use a response file for this type of installation.

To do so, run `nohup` before launching the installation command, as follows:

1. Run the command: `export NOHUP=yes`.
2. Source the `env_vars` file by running: `./env_vars`.
3. Run a command similar to the following example, using your own specific options (inserted between `nohup` and `&`):

```
nohup ./wminstall -r /var/tmp/responseFile.txt -b /u01/apps/WatchMark/  
FlexPM/ -i ProspectBase -d flexpm/flexpm@flexpm -spec spec.xml > /tmp/  
test10.txt &
```

For more information on the `wminstall` command, see [Appendix A: wminstall Options](#) on page 35.

2.4 Installing Additional IBM Prospect Server Applications

If required you can install additional IBM Prospect applications on to a server. To install more than one IBM Prospect application on to a server the default values used by the Installer must be over-riden to avoid multiple applications being installed into the same schema within the database.

Before installing additional applications the following steps should be followed:

- Prepare the Tablespace size
- Check Existing Database Users
- Install Using Non-Default Values

See the *Server Preparation Guide* for more information on preparing the tablesize and checking existing database users.

2.4.1 Install Using Unique Values

The steps used for installing additional IBM Prospect applications are the same as those for installing the first IBM Prospect Server application. The only difference in installing multiple schemas on a single system is that you will need to override some of the already used values to avoid conflicts with already installed systems.

Note: The following assumes that the install script is `wminstall`.

2.4.2 Required Preview Override Parameters

If the default command line values of the Installer are not overridden and a Prospect schema has already been installed on the server, then the `Check Depends` section of the Installer could issue the following messages:

```
| Check Depends      :  
|      Basedir       : <Base dir path> exists  
|      Installldir   : <Install dir path> exists  
|      sqlplus       : Schema Exists
```

Where `<Base dir path>` and `<Install dir path>` are the default values used by the Installer.

If any of the values in the `Check Depends` section on the preview says that something exists, then this parameter needs to be overridden to avoid a clash with another system.

To override the already used values during the preview, the following command line could be used:

```
$ ./wminstall -d <dbuser>/<db passwd>@flexpm -b /u01/apps/WatchMark/FlexPM/  
<DirName> -portbase <PORT_GROUP> -p <portid> -v -preview
```

Note: It is not necessary to override the basename directory using the `-b` option if the already used value is different than all Prospect installations already on the system.

Note: The `Port_Group` must be unique when multiple schemas are used, using a different port number for each application.

The full list of command line parameters are in [Appendix A: wminstall Options](#) on page 35.

2.4.3 Required Install Override Parameters

As with the preview option as described above, the actual installation process will also need some values overridden. These are the same as the in the preview, and the values you use in the install should be tested using the `-preview` option of `wminstall` and the output checked before they are actually used in the install.

To override already used values during the install, the following command line format should be used:

```
$ ./wminstall -d <dbuser>/<db passwd>@flexpm -b /u01/apps/WatchMark/FlexPM/  
<DirName> -portbase <PORT_GROUP> -p <portid> -v
```

The full list of command line parameters are in [Appendix A: wminstall Options](#) on page 35.

2.4.4 Setting Up a Multi-Schema Profile

This section describes how to set up a multi-schema profile. When this step is completed, each time the administrator logs on as `flexpm`, the logon script asks the user to select a schema to open.

To set up a multi-schema profile for schema list option

1. Log in as user `flexpm` to the server on which you installed the Prospect application.
2. Copy the `.chooser` and `.chooser.menu` files from the base module of any Prospect installation, linked to environment value `$PM_HOME` for any Prospect installation, into the home directory of the `flexpm` user.

```
$ cd <install_dir>/ProspectBase  
$ cp .chooser .chooser.menu ~flexpm
```
3. Backup any existing `.profile` before replacing it with a link to the `.chooser` file.

```
$ cd ~flexpm  
$ ln -s .chooser .profile
```
4. Update the file permissions on the `.chooser.menu` file so that it can be updated with Prospect installation values.

```
$ chmod u+w .chooser.menu
```

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5. Edit the .chooser.menu file in the FLEXPm home directory and go to the bottom of the file where the configuration information is stored. By default the configuration information in the file should look like the example below.

```
+-----+-----+-----+
|   DIRECTORY   | ALTERNATE | REFERENCE   |
+-----+-----+-----+
| SDHLR/ProspectBase | sdhlr   | sdhlr@flexpm |
+-----+-----+-----+
```

6. Remove the existing entry for SDHLR/ProspectBase and add in entries for any installed Prospect systems you want available from the menu.

Note: The format of entries is important. The start of each line should begin with a space character, otherwise the menu will not offer a number for the option on the menu. The three fields should then be separated with spaces or tabs to format the menu to ensure it is easily readable.

Note: The DIRECTORY field must be the path to the .profile in the installed Prospect system relevant to the home directory of the flexpm user. E.g. LucenteSM/ProspectBase or Comverse/ProspectBase

Note: The ALTERNATE field value can be used as an alternative value for selecting a Prospect installation from the login menu. (See the example below).

An example of the entries for the file are below:

```
+-----+-----+-----+
|   DIRECTORY   | ALTERNATE | REFERENCE   |
+-----+-----+-----+
| Comverse/ProspectBase | comv   | comv/comv@flexpm |
| LucenteSM/ProspectBase | lesm   | luesm/luesm@flexpm |
| SDHLR/ProspectBase | sdhlr   | sdhlr/sdhlr@flexpm |
+-----+-----+-----+
```

These entries would produce the following menu on login to the system.

```
-- Choose S/W Release X.X.XX --
.. Enter '.' | 'N' | 'X.X.XX' ..

-- +-----+-----+-----+
NN |   DIRECTORY   | ALTERNATE | REFERENCE   |
-- +-----+-----+-----+
  1 | Comverse/ProspectBase | comv   | comv/comv@flexpm |
  2 | LucenteSM/ProspectBase | lesm   | luesm/luesm@flexpm |
  3 | SDHLR/ProspectBase | sdhlr   | sdhlr/sdhlr@flexpm |
-- +-----+-----+-----+
```

```
.. Enter '.' | 'N' | 'X.X.XX' [ '0'|'Q' to escape ] ...  
.. Select release for this session ?
```

To choose the `LucenteSM` entry in this example, either the `NN` value or the `ALTERNATE` value can be used. So entering either `2` or `lesm` would configure the system for the `LucenteSM` Prospect system.

7. Save the changes to the file.
8. Log on as the `flexpm` user and the menu should appear. Select the options in turn, and check the environment settings to ensure that the correct values are being sourced.

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3 Configuring the IBM Prospect Server

Once you have installed the IBM Prospect software, you need to perform the following configuration tasks for each schema:

- [Set the Time Zone and Daylight Saving Time Rules](#)
- [Add Top-Level Network Elements](#)
- [Start the Middleware](#)
- [Set Partition Maintenance Parameters](#)
- [Configure the Auto-Start Feature](#)
- [Configure External Procedures](#)
- [Test the Oracle Listener](#)
- [Configuring External Soft Alarms](#)
- [IBM Prospect Client Installation](#)

3.1 Set the Time Zone and Daylight Saving Time Rules

The IBM Prospect report scheduler offers users the option of running reports according to a different time zone than the one where the server is located - for example, if the IBM Prospect server is located in California (Pacific time zone) and the user is running reports in Colorado (Mountain time zone). Before you begin using IBM Prospect, you need to set the server's time zone and define daylight saving time rules. Refer to the *Administration Guide*, "Time Zone Support for Reporting," for instructions.

3.2 Add Top-Level Network Elements

You must add each top-level network element, or each network element from which data is collected, before the IBM Prospect server can load the data. For more information about adding top-level network elements, refer to the *Administration Guide*.

3.3 Start the Middleware

Refer to the *Administration Guide* for instructions on starting and stopping the middleware.

3.4 Set Partition Maintenance Parameters

By default, there are no storage limits set for the partition maintenance scripts. To save partition disk space, set limits for each data type. See "Maintaining Partitions" in the *Administration Guide* for more information on setting partition maintenance parameters.

3.5 Configure the Auto-Start Feature

The Auto-Start feature is an option that can be linked to the Solaris system run-level scheme to automatically shut down and start up the IBM Prospect system when rebooting. You can install and configure the Auto-Start feature, if desired, after you install and configure the IBM Prospect server, and start the middleware.

Note: The following procedure requires **root** permissions.

To install and configure the Auto-Start feature:

1. Log on as `flexpm`. Select a schema to connect to.
2. Go to the `$FLEXPM_HOME` directory:

```
$ cd $FLEXPM_HOME
```
3. Log on as **root**:

```
$ su root
```
4. In a single-schema installation, configure the Auto-Start feature by entering the following commands:

```
# cd $FLEXPM_HOME/pm/adm
# ./wmpm-init setup
```

In a multiple-schema installation, configure this feature by entering the following commands, where `<NN_SCHEMA>` is the schema number:

```
# cd $FLEXPM_HOME/pm/adm
# ./wmpm-init setup <NN_SCHEMA>
```
5. Exit or log off; the `root` shell is no longer needed:

```
# exit
```

You must repeat this step for each schema you have installed.

3.6 Configure External Procedures

IBM Prospect software uses Oracle external procedure calls with the Oracle Listener to establish a connection between the user and the Oracle database. Enabling external procedures with the Listener is a two fold task: configuring the external procedures, and testing the Listener to ensure the external procedures are configured correctly.

In this section of the guide, you configure the external procedures. You then test the Listener only after you have installed IBM Prospect software on the server.

3.6.1 Multiple Schemas

This section provides the procedures to configure Oracle listeners to support a multiple-schema environment for Oracle external procedures. The need for multiple listeners and environments is due to a restriction that Oracle software has on the `EXTPROC_CONNECTION_DATA` service name. Each schema installed requires a separate version of the external libraries. This allows them to be updated independently.

Notes:

1. If your Oracle configuration is not standard, then the following instructions could require modification. If assistance is required, please contact your customer support representative.
 2. These steps must be performed for each schema on the server. If you start your Oracle database using `dbora`, `dbstart`, or `dbshut`, please adjust the scripts to support the new listener.
-

Create or Modify Listeners

Follow this procedure to create or modify listeners.

To create or modify listeners

1. Log on as the `oracle` user and go to `${ORACLE_BASE}/network/admin`. This is the normal location for the `listener.ora` and `tnsnames.ora` files.

```
$ cd ${ORACLE_BASE}/network/admin
```
 2. Create a new directory that is specific for the schema. Change the directory to this location. This example uses `flexpm` as a schema name.

```
$ mkdir flexpm  
$ cd flexpm
```
 3. Create the following files in this new directory. As examples, use the sample files located at the end of this section as templates.
 - `set_tns`—This file consists of one line, which names the full path to the new listener directory. Create the `set_tns` file by following the instructions in step 4.
 - `listener.ora`—This file lists host names, dedicated services, and trace and log output
-

- `tnsnames.ora`—This file provides the ability to reference oracle databases by a simple alias
4. Create the `set_tns` file by modifying the following `set_tns` example file to contain the correct directory name. You will use this to change the environment when you start and stop the listener process. The following is a sample `set_tns` file. For `<SCHEMA>`, substitute the appropriate value for your system.

```
TNS_ADMIN=/u01/apps/oracle/network/admin/<SCHEMA>
export TNS_ADMIN
```
 5. Modify the files `listener.ora` and `tnsnames.ora`, substituting appropriate values for the `HOSTNAME`, `PORTNUM`, `SCHEMA`, and `FLEXPM_HOME` tags. Modify the `ENVS` variable to use the Prospect installation path. The `PORTNUM` tag must be unused, and unique among the listeners on the system.
 6. Verify that you can read the libraries listed in the `ENVS` variable of the `listener.ora` file.
 7. Set the listener environment to your local directory.

```
$ . ./set_tns
```
 8. If you created a listener, then start it. If you have modified an existing listener, then stop and re-start it. Use the full `listener_<SCHEMA>` name. For `<SCHEMA>`, substitute the appropriate value for your system, for example:

```
$ lsnrctl
LSNRCTL> start listener_flexpm
```

Sample Oracle Configuration Files

Use the following samples as templates. Wherever you see a term in italics and angle brackets (for example, `<SCHEMA>`), substitute an appropriate value for your system. Do not enter the angle brackets in the file.

Example `set_tns`

```
TNS_ADMIN=/u01/apps/oracle/network/admin/<SCHEMA>
export TNS_ADMIN
```

Example `listener.ora`

Note: The indents in this file are critical for successful file processing. If you copy and paste the template from this document, you may lose the fidelity of the indents. Moreover, some of the lines in this document wrap, which may also cause problems when the file is processed.

```
LOG_DIRECTORY_LISTENER_<SCHEMA> = /u01/apps/oracle/network/log
LOG_FILE_LISTENER_<SCHEMA> = listener_<SCHEMA>.log

#TRACE_LEVEL_LISTENER_<SCHEMA> = ADMIN
#TRACE_FILE_LISTENER_<SCHEMA> = listener.trc

LISTENER_<SCHEMA> =
```

```
(DESCRIPTION_LIST =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP) (HOST = <HOSTNAME>) (PORT = <PORTNUM>))
    (ADDRESS = (PROTOCOL = IPC) (KEY = EXTPROC_<SCHEMA>))
  )
)

SID_LIST_LISTENER_<SCHEMA> =
  (SID_LIST =
    (SID_DESC =
      (GLOBAL_DBNAME = flexpm)
      (SID_NAME = flexpm)
    )
    (SID_DESC =
      (SID_NAME = PLSExtProc_<SCHEMA>)
      (PROGRAM = extproc)
    )
  )
#.
```

Example tnsnames.ora

Note: The indents in this file are critical for successful file processing. If you copy and paste the template from this document, you may lose the fidelity of the indents. Moreover, some of the lines in this document wrap, which may also cause problems when the file is processed.

```
EXTPROC_CONNECTION_DATA =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = IPC) (Key = EXTPROC_<SCHEMA>))
    )
    (CONNECT_DATA =
      (SID = PLSExtProc_<SCHEMA>) (PRESENTATION = RO)
    )
  )

FLEXPM =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP) (HOST = <HOSTNAME>) (PORT =
<PORTNUM>))
    )
    (CONNECT_DATA =
      (SID = flexpm )
    )
  )
```

```
)  
)
```

Example dbora File

This sample dbora file starts both the listener and listener_<SCHEMA> processes, and stops them. The example file uses listener_flexpm as listener_<SCHEMA>. Except for substituting your schema name for <SCHEMA>, everything else must be identical.

```
## startup database listener processes  
  
Program="${ORACLE_HOME}/bin/lsnrctl"  
Process="TWO_TASK='' ORACLE_SID='${ORACLE_SID}' ${Program} start"  
  
if test ! -f "${Program}"  
then echo "?( $0) missing program: \"${Program}\"" 1>&2 ; exit 1  
fi  
  
echo ": ${Process}" ; echo ":"  
  
case ${INVOKE_USER} in  
oracle) sh -c "${Process}" ;;  
root|*) su - ${ORACLE_USER} -c "${Process}" ;;  
esac  
  
RC="$?" ; echo ": Status='${RC}'" ; echo ":"  
## startup database listener_flexpm processes  
export TNS_ADMIN  
TNS_ADMIN=/u01/apps/oracle/network/admin/flexpm  
Program="${ORACLE_HOME}/bin/lsnrctl"  
Process="TWO_TASK='' ORACLE_SID='${ORACLE_SID}' ${Program} start  
listener_flexpm"  
  
if test ! -f "${Program}"  
then echo "?( $0) missing program: \"${Program}\"" 1>&2 ; exit 1  
fi  
  
echo ": ${Process}" ; echo ":"  
  
case ${INVOKE_USER} in  
oracle) sh -c "${Process}" ;;  
root|*) su - ${ORACLE_USER} -c "${Process}" ;;  
esac
```

```
RC="$?" ; echo ": Status='$RC'" ; echo ":"  
;;  
  
stop )  
  
## shutdown database listener processes  
  
Program="${ORACLE_HOME}/bin/lsnrctl"  
Process="TWO_TASK='' ORACLE_SID='${ORACLE_SID}' ${Program} stop"  
  
if test ! -f "${Program}"  
then echo "?( $0) missing program: \"${Program}\"" 1>&2 ; exit 1  
fi  
  
echo ": ${Process}" ; echo ":"  
  
case ${INVOKE_USER} in  
oracle) sh -c "${Process}" ;;  
root|*) su - ${ORACLE_USER} -c "${Process}" ;;  
esac  
  
## shutdown database listener_flexpm processes  
export TNS_ADMIN  
TNS_ADMIN=/u01/apps/oracle/network/admin/flexpm  
Program="${ORACLE_HOME}/bin/lsnrctl"  
Process="TWO_TASK='' ORACLE_SID='${ORACLE_SID}' ${Program} stop  
listener_flexpm"  
  
if test ! -f "${Program}"  
then echo "?( $0) missing program: \"${Program}\"" 1>&2 ; exit 1  
fi  
  
echo ": ${Process}" ; echo ":"  
  
case ${INVOKE_USER} in  
oracle) sh -c "${Process}" ;;  
root|*) su - ${ORACLE_USER} -c "${Process}" ;;  
esac
```

3.7 Test the Oracle Listener

Prospect software uses Oracle external procedure calls with the Oracle Listener to establish a connection between the user and the Oracle database.

Previous to installing IBM Prospect software, during the phase of preparing the server, the *Server Preparation Guide* instructs the administrator to configure Oracle external procedures for the Oracle Listener. Now that you have installed the IBM Prospect software, you need to test the Listener to ensure that the external procedures are configured correctly.

Note: Perform the following steps for each of the `<SCHEMA>` environments.

To test the listener

1. As user `oracle`, stop the `listener` process and then start it again.
2. As user `oracle`, source the `set_tns` script for the schema, then stop the `listener_<SCHEMA>` process and start it again.
3. Log on to the UNIX account for the IBM Prospect system (normally the `flexpm` user).

```
$ cd $FLEXPM_HOME
```
4. Edit the `.profile.oracle` file. You must change the `TNS_ADMIN` variable to point to the new listener location, for example:

```
export TNS_ADMIN=${ORACLE_BASE}/network/admin/<SCHEMA>
```
5. Re-source the environment.

```
$ . .profile
```
6. Verify that you have the correct `TNS_ADMIN` setting.

```
$ echo $TNS_ADMIN
```
7. Test your connectivity to the listener. You should be able to connect to the database using the command `sqlplus`.

```
$ sqlplus $DB_CONNECT
SQL>
```
8. Test that the external procedure operation is working.

```
SQL> select wnext.getversionstring from dual;
```

```
GETVERSIONSTRING
-----

WatchMark libWmExtProc.so for Prospect ExtProc-Patch
(built SunOS 5.8, c4 Jan 16 2004 15:46:46)
```

If the listener does not work, make sure you have substituted the correct values for all italicized variables in the template, then retest.

If you are satisfied that the listener does work, then log on as `root` and adjust the `dbora` file to start and stop the `listener` and `listener_<SCHEMA>` processes.

3.8 Configuring External Soft Alarms

In order to set up External Soft Alarms, you need to make manual changes to your TNS configuration, as well as create a database link, as outlined in the following sections. For more information on External Soft Alarms, refer to the *Administration Guide*.

3.8.1 Configuring TNS

External Soft Alarms requires access to a remote Oracle system and manual changes to the `tnsnames.ora` file.

The `tnsnames.ora` file, which is located in the `$TNS_ADMIN` directory, must be modified so that the `net_service_name` for the remote database is present. The `net_service_name` must match the one used when the database link is created (in the next section).

Following is the basic format for this entry in `tnsnames.ora`:

```
net_service_name=
(DESCRIPTION=
 (ADDRESS=(protocol_address_information))
 (CONNECT_DATA=
 (SERVICE_NAME=service_name)))
```

Once the file has been modified, to test the connection, use the `tnsping` utility as follows:

```
tnsping <net_service_name>
```

The utility should return an OK and a ping time.

3.8.2 Creating a Database Link

External Soft Alarms requires the creation of a database link for access to the remote Oracle system. This link must be created manually, then tested to verify that the link is valid. This testing is dependent on the `tnsnames.ora` configuration changes made above.

The creation of the database link relies on the database `GLOBAL_NAMES` setting. Since the default `FALSE` value is used, the database link name does not have to match the remote system's `global_name`. If the value is set to `TRUE`, the database link name must match.

Before running the command to create the database link, you must log out and log in to Oracle as `flexpm`. Note that the database link must be owned by the `flexpm` schema.

Following is a sample command for creating the database link. The quotes around the connect string are required:

```
CREATE DATABASE LINK <database_name>
CONNECT TO remote_user IDENTIFIED BY remote_pwd
USING 'connect_string';
```

Note: This is a one-time configuration process and will not require a script wrapper. If needed, the link can be dropped and then re-created. Following is the DROP command:

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```
DROP DATABASE LINK < database_name>;
```

Once the database link has been created, you need to associate it with the SAEXT_LINK system variable.

To test the parameters used in the link, attempt to connect to the remote system by entering the following, for example:

```
$ sqlplus remote_user/remote_pwd@connect_string
```

If login is successful, the link is properly configured.

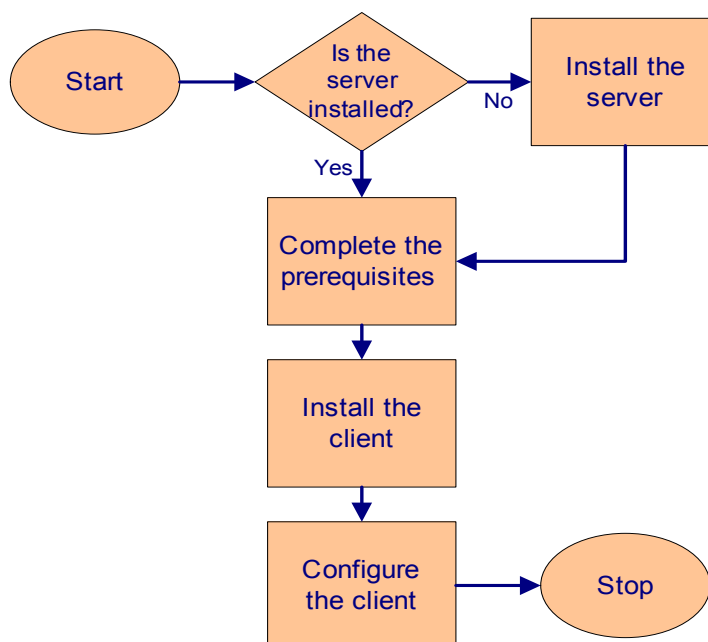
3.9 IBM Prospect Client Installation

After configuring the IBM Prospect server, you can install and set up the IBM Prospect client to connect to the IBM Prospect server. See [Installing the IBM Prospect Client](#) for more information about installing and configuring the IBM Prospect client.

4 Installing the IBM Prospect Client

The procedure for installing the IBM Prospect client is shown in the following figure.

Figure 2: IBM Prospect Client Installation Process



The only supported configuration for the IBM Prospect client application is on individual computers. Installing the IBM Prospect client on a shared Windows server is not recommended.

4.1 Prerequisites

A IBM Prospect server must be installed and configured before you can connect a client computer to that server.

4.1.1 Minimum Hardware Requirements

The computer on which the IBM Prospect client is installed must contain at a minimum the following hardware:

- Pentium III, 800 megaHertz (MHz) processor
- 128 megabytes (MB) of system RAM
- 16 MB dedicated memory for video
- Video card configured to display 1024 x 768 resolution or better

Note: The IBM Prospect client does not support lower resolution settings.

- 6 gigabytes (GB) hard disk with the following:
 - 100 MB of free disk space to install the IBM Prospect client
 - 3.1 MB of free registry space

4.1.2 Recommended Hardware Requirements

To ensure full performance of the IBM Prospect client, it is recommended that the computer on which the IBM Prospect client is installed contain the following hardware:

- Pentium IV, at least 2 gigaHertz (GHz) processor
- 512 MB of system RAM (double data rate [DDR])
- At least 32 MB dedicated memory for video
- 80 GB hard disk with the following:
 - 100 MB of free disk space to install the IBM Prospect client
 - 3.1 MB of free registry space

4.1.3 Software Requirements

The computer on which the IBM Prospect client is installed must be set up with the following software:

- Windows XP, Windows Server 2003, or Windows Vista operating system. (Windows XP is recommended)
- Microsoft Excel - one of the following versions: 2002, 2003, 2007, with Microsoft Query installed
- Adobe Acrobat 5.0 or later
- WinZip 7.0 or later if installing from compressed files

Note: If the IBM Prospect client software is installed on a drive other than the one in which Windows is installed, the drive with Windows installed should have at least 35 MB of free disk space.

4.2 Installing the IBM Prospect Client

To install the IBM Prospect client, follow the procedure below.

To install the client from the CD

1. Insert the IBM Prospect client CD-ROM disc into the CD-ROM drive.
2. Go to the client disc and run `wmsetup.exe`.

The installer creates the necessary system and application files, updates the system's registry, and adds entries to START menu.

4.3 Configure the IBM Prospect Client

Configuring the IBM Prospect client for the first time involves the following:

- [Setting Up Connection Profiles](#)
- [Adding User Names to Prospect Explorer](#)
- [Setting the Macro Security Level in Excel](#)

4.3.1 Setting Up Connection Profiles

A connection profile must be defined in the Connection Manager for the IBM Prospect client to connect to the IBM Prospect server. Refer to "Connection Manager" in the *Administration Guide* for more information about configuring profiles using the Connection Manager.

Importing Connection Profiles from a Previous Version

Connection profiles from any previous versions of the IBM Prospect client are automatically transferred to the IBM Prospect client. If profiles with duplicate names exist in the client, the profile from the most recent client is transferred.

4.3.2 Adding User Names to Prospect Explorer

In addition to defining profiles in the Connection Manager, users must also be defined in Prospect Explorer. See "User Management" in the *IBM Prospect Administration Guide* for more information about adding user names to Prospect Explorer.

4.3.3 Setting the Macro Security Level in Excel

Set Excel's macro security level to avoid failures when downloading reports.

To set the macro security level in Excel

1. Open Excel.
2. From the TOOLS menu, select MACROS, and then SECURITY.
3. Select the SECURITY LEVEL tab and click LOW.

4.4 Uninstalling the IBM Prospect Client

To uninstall the IBM Prospect client, use the ADD/REMOVE PROGRAMS component of the Control Panel.

Appendix A: wminstall Options

The `wminstall` command offers several advanced command line options that allow you to override the installation parameters specified in the `spec.xml` file. The following table describes each option.

These overrides are optional and are not necessary for most applications.

Table 1: Command Line Options

Command	Description
<code>-v -verbose</code>	Increases the level of detail returned during processing. By default, only summary information is returned.
<code>-d -db_connect</code>	Overrides the <code><DBCONNECT></code> element which specifies the <code>DB_CONNECT</code> string used to connect to the IBM Prospect database. For example, <code>-d myuser/mypassword@myselfid</code> would override the default string of <code>flexpm/flexpm@flexpm</code> .
<code>-b -basedir</code>	Overrides the <code><BASEDIR></code> element which specifies the base installation directory. For example, <code>-b /u01/apps/WatchMark/OtherDir</code> overrides the default <code>/u01/apps/WatchMark/FlexPM</code> .
<code>-i -install_dir</code>	Overrides the <code><CORE_INSTALLDIR></code> element which specifies the default subdirectory of <code><BASEDIR></code> where this version will install. Note: The <code><CORE_INSTALLDIR></code> argument is relative to the <code><BASEDIR></code> . To override both <code><BASEDIR></code> and <code><CORE_INSTALLDIR></code> , i.e., change the full path to the installation, use a combination of <code>-b</code> and <code>-i</code> options. For example, if the core install directory is <code>7.2</code> , <code>-i other/8.2</code> would override the default of <code>7.2</code> with the <code>other/8.2</code> value. The installation would then be in <code><BASEDIR>/other/8.2</code> .
<code>-portbase</code>	Overrides the <code><PORTBASE></code> element which specifies the default port. For example, if the base port is <code>6440</code> , <code>-portbase 12200</code> would override the default value of <code>6440</code> with the <code>12200</code> value.
<code>-t -tmpdir</code>	Overrides the <code><TMPDIR></code> element which specifies the default temporary directory used by the installer. For example, <code>-t /usr/tmp</code> would override the default value of <code>/var/temp</code> .
<code>-preview</code>	Performs global pre-validation steps and lists the installation steps that <code>wminstall</code> will perform without installing the software.
<code>-spec spec.xml</code>	Specifies the path to a customized <code>spec.xml</code> file to be used during configuration.
<code>-r <response file></code>	Specifies the path to a customized response file, which is a text file containing the responses required to install in silent mode.

Command Line Example:

To set the portbase setting to 18200, use the `portbase` command line option during installation:

```
./wminstall -portbase 18200
```

Minimizing Downtime When Upgrading Prospect

By default, during a product upgrade, `wminstall` performs the `ps-mgr stop all` command, which forces the middleware to shut down immediately, and causes any currently-running reports, maintenance jobs, and loader jobs to fail. To shorten the amount of time that the Prospect server is down for an upgrade, you can specify for `wminstall` to perform the `ps-mgr halt` command instead. In this case, the user is responsible for ensuring the correct termination of processes and the release of shared resources.

To request that only a “halt” is performed, move the `spec.xml` file to a local directory and change the following statement in the `spec.xml` file, which is currently set to “stop all”:

```
<PRE_INSTALL language="java">middleware_down_up -e</PRE_INSTALL>
```

to the following:

```
<PRE_INSTALL language="java">middleware_down_up -h</PRE_INSTALL>
```

In either case, the upgrade process automatically restarts the product.

Appendix B: Sample Output for wminstall Preview

The following shows sample output when you run `wminstall` with the `-preview` option.

```
+-----+
| Processing : ./wminstall
| Log File   : summary.log
+-----+
| Start Time : 15:46:52
|           Date : 2008_08_12
+-----+
| Installer Self-Audit :
|           spec.xml           : Exists
|           CORE - FlexPM-806001I.tgz : Exists
|           OpenCLBS - FlexPM-OpenCLBS-608100I.tgz : Exists
+-----+
| Core Defaults      :
|           DBCONNECT           : flexpm/flexpm@flexpm
|           BASEDIR             : /u01/apps/WatchMark/FlexPM
|           CORE_INSTALLDIR     : ProspectBase
|           PORTBASE           : 6440
|           TMPDIR              : /var/tmp
|           CLASSPATH           : lib/preval.jar:lib/
|                               jdom.jar:lib/log4j.jar:lib/jython.jar:/u01/apps/oracle/product/10.2.0/jdbc/
|                               lib/classes12.zip:.
+-----+
| Module Overrides  :
|           DBCONNECT           : <No Override>
|           BASEDIR             : <No Override>
|           CORE_INSTALLDIR     : <No Override>
|           PORTBASE           : <No Override>
|           TMPDIR              : <No Override>
|           CLASSPATH           : <No Override>
+-----+
| Passed Params    :
```

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```
-----
|          db_connect                : openf/openf@flexpm
|          basedir                    : /u01/apps/WatchMark/FlexPM/
openwavef6
|          install_dir                : ProspectBase
|          portbase                   : 6440
|          tmpdir                     : <No Override>
|          classpath                  : <No Override>
|          spec                       : spec.xml
|          Process Mode                : INSTALL
+-----
|  Core Composite Defaults  :
|          DBCONNECT                : openf/openf@flexpm
|          SYSPASSWD                 : <Set>
|          BASEDIR                   : /u01/apps/WatchMark/FlexPM/
openwavef6
|          CORE_INSTALLDIR           : ProspectBase
|          PORTBASE                   : 6440
|          TMPDIR                     : /var/tmp
|          CLASSPATH                 : lib/preval.jar:lib/
jdom.jar:lib/log4j.jar:lib/jython.jar:/u01/apps/oracle/product/10.2.0/jdbc/
lib/classes12.zip:.
+-----
|  Copy spec.xml  :
|          Copy                        : Successful
+-----
|  Validating Global Routines  :
|          PRE_VALIDATE               : <None>
|          PRE_INSTALL                : <None>
|          POST_INSTALL               : <None>
|          POST_VALIDATE              : <None>
+-----
|  Verifying CORE Routines - FlexPM-806001I.tgz  :
|          INSTALL                    - install/core_inst.sh  : Exists
+-----
|  Verifying OpenCLBS Routines - FlexPM-OpenCLBS-608100I.tgz  :
|          INSTALL                    - install/module_inst.sh : Exists
+-----
|  Check Depends  :
|          Basedir                    : /u01/apps/WatchMark/FlexPM/
openwavef6 does not exist
|          Installdir                 : /u01/apps/WatchMark/FlexPM/
openwavef6/ProspectBase does not exist
|          sqlplus                     : Schema does not exist
+-----
|  Registry Info  :
```

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```

|          FlexPM-806001I.tgz                      : INSTALL - CORE - 8.0.6.0.01
+-----+
| Vendor Tarball      :
|       Module - OpenCLBS, version - 6.08.1.0.0.3 : All prerequisites met
|       FlexPM-OpenCLBS-608100I.tgz              : INSTALL - VENDOR -
6.08.1.0.0.3
+-----+
| Processing Steps   :
|       Global PRE_VALIDATE                       : scripts/check_os -o 5.9
-o 5.10
|       Global PRE_VALIDATE                       : scripts/check_perl -p 5.6.1
|       Global PRE_VALIDATE                       : scripts/check_space -s
400 -i /var/tmp
|       Global PRE_VALIDATE                       : scripts/check_oracle_sysdba
|       Global PRE_VALIDATE                       : scripts/check_oracle_status
|       Global PRE_VALIDATE                       : scripts/
check_oracle_patch_lvl -o 10.2.0 --enterprise
|       Global PRE_VALIDATE                       : scripts/
check_oracle_tablespaces -t traffic_jumbo -a 10%
|       Global PRE_VALIDATE                       : scripts/
check_oracle_tablespaces -t traffic_large -a 10%
|       Global PRE_VALIDATE                       : scripts/
check_oracle_tablespaces -t traffic_medium -a 10%
|       Global PRE_VALIDATE                       : scripts/
check_oracle_tablespaces -t traffic_small -a 10%
|       Global PRE_VALIDATE                       : scripts/
check_oracle_tablespaces -t wm_flexpm -a 10%
|       Global PRE_VALIDATE                       : scripts/
check_oracle_tablespaces -t config -a 10%
|       Global PRE_INSTALL                        : <None>
|       TARBALL - FlexPM-806001I.tgz              : INSTALL
|       PRE_INSTALL - ProspectBase                 : query_startofweek
|       INSTALL - ProspectBase                     : install/core_inst.sh
|       TARBALL - FlexPM-OpenCLBS-608100I.tgz     : INSTALL
|       INSTALL - ../OpenCLBS                      : install/module_inst.sh
|       Global POST_INSTALL                       : <None>
|       Global POST_VALIDATE                      : <None>
+-----+
| Performing Global PRE Routines   :
+-----+
|       PRE_VALIDATE   :
|       check_os      : PASS
|
|
|
|
| matches required version(5.10)
|
|

```

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```
|
|                                     :
|      check_perl                     : PASS
|                                     : CORRECT Perl version 5.6.1
found at /usr/perl5/5.6.1/bin/perl
|                                     : Perl version 5.6.1 also
found at /usr/bin/perl
|                                     : Ending: Return Code (0)
|                                     :
|      check_space                     : PASS
|                                     : /var/tmp exists
|                                     : Space available in Megabytes
is 36073
|                                     : More than 110 percent of
space required is available (36073)
|                                     : Ending: Return Code (0)
|                                     :
|      check_oracle_sysdba            : PASS
|                                     : check_oracle_sysdba
|                                     : Connection succeeded for
sys/change_on_install@flexpm
|                                     :
|      check_oracle_status            : PASS
|                                     : check_oracle_status
|                                     : oci8 JDBC datasource =
jdbc:oracle:oci8:@flexpm
|                                     : Connecting...
|                                     : oci8 JDBC connection OK!
|                                     : Getting hostname and port...
|                                     : thin JDBC datasource =
jdbc:oracle:thin:@mars:1521:flexpm
|                                     : Connecting...
|                                     : thin JDBC connection OK!
|                                     :
|      check_oracle_patch_lvl         : PASS
|                                     : check_oracle_patch_lvl
|                                     : oci8 JDBC datasource =
jdbc:oracle:oci8:@flexpm
|                                     : Connecting...
|                                     : oci8 JDBC connection OK!
|                                     : Querying...
|                                     : ORACLE DATABASE 10G
ENTERPRISE EDITION 10.2.0.3.0
|                                     :
|      check_oracle_tablespace       : PASS
|                                     : check_oracle_tablespace
```


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```
|
jdbc:oracle:oci8:@flexpm          : oci8 JDBC datasource =
|
|                                 : Connecting...
|                                 : oci8 JDBC connection OK!
|                                 : Querying...
|                                 : Tablespace:   TRAFFIC_JUMBO
|                                 : MB free:      1556.0
|                                 : Percent free: 75.9765625
|                                 : Space Rqd:   10.0
|                                 :
|                                 :
|           check_oracle_tablespace : PASS
|                                 : check_oracle_tablespace
|                                 : oci8 JDBC datasource =
jdbc:oracle:oci8:@flexpm
|                                 : Connecting...
|                                 : oci8 JDBC connection OK!
|                                 : Querying...
|                                 : Tablespace:   TRAFFIC_LARGE
|                                 : MB free:      2043.0
|                                 : Percent free: 99.755859375
|                                 : Space Rqd:   10.0
|                                 :
|                                 :
|           check_oracle_tablespace : PASS
|                                 : check_oracle_tablespace
|                                 : oci8 JDBC datasource =
jdbc:oracle:oci8:@flexpm
|                                 : Connecting...
|                                 : oci8 JDBC connection OK!
|                                 : Querying...
|                                 : Tablespace:   TRAFFIC_MEDIUM
|                                 : MB free:      979.75
|                                 : Percent free: 95.6787109375
|                                 : Space Rqd:   10.0
|                                 :
|                                 :
|           check_oracle_tablespace : PASS
|                                 : check_oracle_tablespace
|                                 : oci8 JDBC datasource =
jdbc:oracle:oci8:@flexpm
|                                 : Connecting...
|                                 : oci8 JDBC connection OK!
|                                 : Querying...
|                                 : Tablespace:   TRAFFIC_SMALL
|                                 : MB free:      957.734375
|                                 : Percent free:
93.52874755859375
```

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```
|                                     : Space Rqd:   10.0
|                                     :
|      check_oracle_tablespaces      : PASS
|                                     : check_oracle_tablespaces
|                                     : oci8 JDBC datasource =
jdbc:oracle:oci8:@flexpm
|                                     : Connecting...
|                                     : oci8 JDBC connection OK!
|                                     : Querying...
|                                     : Tablespace:   WM_FLEXPM
|                                     : MB free:     1680.5
|                                     : Percent free:
88.12270582066073
|                                     : Space Rqd:   10.0
|                                     :
|      check_oracle_tablespaces      : PASS
|                                     : check_oracle_tablespaces
|                                     : oci8 JDBC datasource =
jdbc:oracle:oci8:@flexpm
|                                     : Connecting...
|                                     : oci8 JDBC connection OK!
|                                     : Querying...
|                                     : Tablespace:   CONFIG
|                                     : MB free:     299.375
|                                     : Percent free:
99.79166666666667
|                                     : Space Rqd:   10.0
|                                     :
+-----+
|  Extract Tarballs  :
|      Extract      : FlexPM-806001I.tgz
+-----+
|  Processing CORE Routines  :
+-----+
|  PRE_INSTALL      :
|      query_startofweek    : PASS
|                                     :
+-----+
|  INSTALL          :
|
```

Appendix C: Sample Response File

The following shows a sample response file.

```
#####  
#  
# Response file for Prospect installation  
#  
# Please follow the comments to use the response file and  
# understand the various options. You must carefully complete  
# or change the various values. If the values are not completed  
# properly, the install may be unsuccessful.  
#  
#####  
  
#####  
#  
# License Acceptance  
#  
# Valid Options      :true   Accepts the license. Will install the product.  
#                   :false  Declines the license. Install will not occur.  
#  
# By changing the LICENSE_ACCEPTANCE value to "true", you agree that you  
# have reviewed and agree to the terms of the IBM International Program License Agreement  
# accompanying this program, which is located at CD_ROOT\license.txt.  
# If you do not agree to these terms, do not change the value.  
#  
#####  
  
LICENSE_ACCEPTANCE = true  
  
#####  
#  
# Start of week  
#  
# Valid Options      :1-7 with 1=Monday,...7=Sunday  
#  
#####  
  
START_OF_WEEK = 7
```

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Appendix D: Pre-Installation Checks

Whenever you preview the server installation package or install the product, you run the installation program `wminstall`. Whenever `wminstall` runs, it performs a number of validation checks to verify that the target server is configured correctly.

This section discusses where you can review validation results and lists each validation check and its corrective action(s).

Note: Your software release might only support a subset of the validation checks listed here.

Results of Validation Checks

When `wminstall` runs it returns codes, which state the results of the validation checks. The return codes are displayed on the screen and written to the `wminstall.log` in the installation directory. (The installation directory is set with the `-i` option of `wminstall`. The default value is `/var/tmp`).

In most cases, the return code is either a zero (0) or a two (2):

- Return code of zero (0) — All validation checks were successful. This status indicates that the server is configured correctly for the tested condition.
- Return code of two (2) — One or more checks have failed, and you must reset or reconfigure the failed option.

Validation Checks

This section lists each validation check of the `wminstall` program, its purpose, and corrective action if the validation failed.

check_accounts

Purpose

Validates the user accounts `flexpm` and `oracle`. It specifically checks whether:

- `flexpm` is in the `/etc/passwd` file

- flexpm has a uid of 10020
- flexpm has a gid of 600
- oracle is in the /etc/passwd file
- oracle has a uid of 10021
- oracle has a gid of 600
- flexpm and oracle both have the same gid

Corrective Action

If the return code is 2, read the wminstall.log file, which identifies the failing condition. Correct the setting for the failing account(s).

check_oracle_opts

Purpose

Validates that the Oracle Partitioning feature is installed.

Corrective Action

If the return code is 2, the Oracle Partitioning feature is not installed. Install the Oracle Partitioning feature.

check_oracle_perms

Purpose

Validates that the user/password@sid has the permissions to perform the following actions:

ALTER SESSION	CREATE VIEW	UTL_FILE
ALTER TABLESPACE	EXECUTE ANY PROCEDURE	DBMS_LOCK
CREATE ANY INDEX	QUERY REWRITE'	DBMS_ALERT
CREATE ANY TRIGGER	UNLIMITED TABLESPACE'	AQ\$_AGENT
CREATE LIBRARY	AQ_ADMINISTRATOR_ROLE	AQ\$_DEQUEUE_HISTORY
CREATE PROCEDURE	SELECT_CATALOG_ROLE	AQ\$_SUBSCRIBERS
CREATE SEQUENCE	V_\$SESSION	AQ\$_RECIPIENTS
CREATE SESSION	V_\$PARAMETER	AQ\$_HISTORY
CREATE SYNONYM	V_\$DATABASE	AQ\$_DEQUEUE_HISTORY_T
CREATE TABLE	V_\$DATAFILE	DBMS_AQ
CREATE TRIGGER	V_\$TABLESPACE	DBMS_AQADM
CREATE TYPE	DBA_USER	

Corrective Action

If the return code is 2, read the `wminstall.log` file, which lists all the missing permissions. Set the necessary permissions.

check_oracle_status

Purpose

Validates that the Oracle database is online and running.

Corrective Action

If the return code is 2, read the `wminstall.log` file, which notes the failing condition. Before an installation or upgrade, ensure that Oracle is online, running and that you can be connected to it.

check_oracle_tablespace

Purpose

Validates that a given tablespace has enough free space.

Corrective Action

If the return code is 2, read the `wminstall.log` file, which identifies the failing tablespace. Ensure that there is enough available free space in the specified tablespace for an installation or upgrade.

check_os

Purpose

Checks the version of the Solaris operating system.

Corrective Action

A return code is 2 indicates that the wrong version of Solaris is installed on the server. You must have SunOS 5.9 or SunOS 5.10 installed.

check_java

Purpose

Checks the version of Java and validates that it is part of the JDK (not part of the JRE).

Corrective Action

If the return code is 2, read the `wminstall.log` file and check for the correct Java version installed on the server.

middleware_status

Purpose

Checks to see if a DataServer is running, which indicates whether the middleware is running. The middleware should automatically be down when an upgrade is being performed.

Corrective Action

A return code is 2 indicates that the middleware is running. If the middleware is up, you must shut it down before you continue with the installation or upgrade.

check_oracle_patch_lvl

Purpose

Validates the version of Oracle, including the patch number.

Corrective Action

If the return code is 2, read the `wminstall.log` file, which identifies the failing condition. Correct the Oracle version or product.

check_perl

Purpose

Checks the version of Perl and validates that it is located in the correct directory.

Corrective Action

If the return code is 2, read the `wminstall.log` file. Ensure that the version of Perl is correct, and located in `/usr/local/bin/perl`.

check_space

Purpose

Checks to ensure that the installation directory has the required amount of space for temporary installation processing. (The temporary installation directory is set with the `-t` option of `wminstall`. The default value is `/var/tmp`.)

Corrective Action

Read the `wminstall.log` file. Ensure the required space is available.

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Printed in the Republic of Ireland.