

Installation Guide Prospect® 8.0 for Ericsson GSM/GPRS/ UMTS



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Prospect® 8.0 for Ericsson GSM/GPRS/UMTS

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1 About This Documentation

The *Installation Guide* provides instructions for installing Prospect® software, which includes software for the Prospect server and the Prospect client. This guide is customized to support Prospect 8.0 (Release 8.0.4) for Ericsson GSM/GPRS/UMTS (Release Point 13).

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

This guide was last updated 11 December 2007.

Please refer to the current release notes on this product for a list of revision dates for all 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 Prospect software. In general, the reader of this guide is referred to as "you." By contrast, "we" refers to the 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">• ./wminstall• \$ cd /cdrom/cdrom0• /xml/dict• http://java.sun.com/products/• addmsc.sh• core.spec• 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

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

Table 2: Prospect User Documentation

Document	Description
<i>Administration Guide</i>	Helps an administrator configure and support 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 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 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 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 Prospect software.
<i>Server Sizing Tool Guide</i>	Helps an administrator use the sizing tool to calculate the system space needed for the Prospect software and database.
<i>User Guide</i>	Provides conceptual information and procedures for using 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 Prospect graphical user interface or press F1 for context-sensitive Help. To update the Help files, click the HELP menu on the Prospect Explorer, and select UPDATE ALL HELP FILES.

When Help files are updated, they are downloaded automatically from the Prospect server to the 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/>.

1.5 Training and Technical Support

Both training and technical support are available for Prospect software. For technical support, contact us at prospect@us.ibm.com. For training, contact us at training@vallent.com.

For more information on product training courses, contact your delivery management team at:

- Americas: tivamedu@us.ibm.com
- Asia Pacific: tivtrainingap@au1.ibm.com
- EMEA: tived@uk.ibm.com

2 Installing Prospect Software

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

This chapter contains the following topics:

[Before You Begin](#)

[Prospect Server Installation Process](#)

[Install the Prospect Server](#)

[Testing the Oracle Listener](#)

[Configuring the Prospect Server](#)

[Prospect Client Installation](#)

2.1 Before You Begin

Before you can install the 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 2000
- Adobe Acrobat Reader, available from <http://www.adobe.com>.

2.1.2 Installation Privileges Required

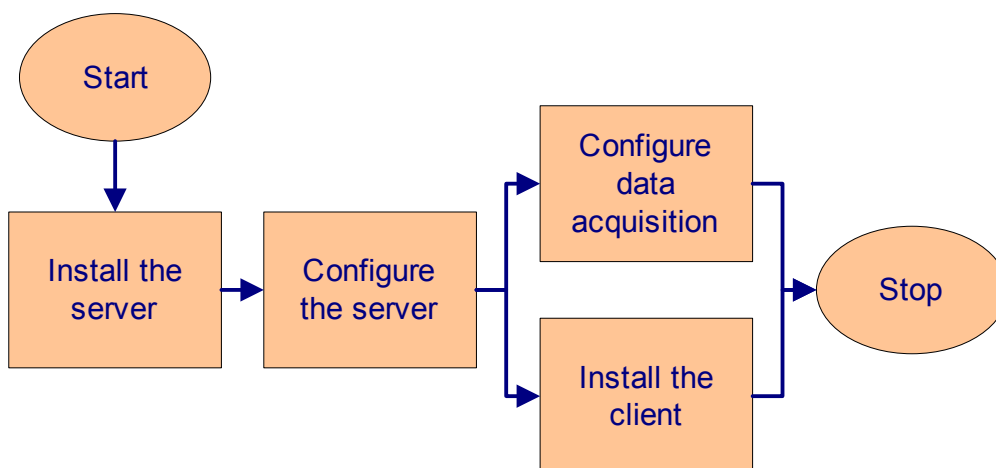
Table 3: Installation Privileges Required

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

2.2 Prospect Server Installation Process

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

Figure 1: Installing Prospect Server for the First Time



2.3 Install the Prospect Server

This section explains how to install the Prospect server package.

2.3.1 Preview the Server 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:

<i>Environment Variable</i>	<i>Default Value</i>
\$DB_CONNECT	flexpm/flexpm@flexpm
\$FLEXPM_HOME	/u01/apps/WatchMark/FlexPM/EricssonGGU/ProspectBase
\$PORT_GROUP	6440

You can override some of these default values by using optional additional parameters with the `wminstall` command. For information about advanced pre-installation options, see [wminstall Options](#) on page 21.

To preview the installation of the Prospect server package

1. Log on as `flexpm` to the computer on which you are installing the Prospect server.

2. Go to the drive containing the Prospect server CD:

```
$ cd /cdrom/cdrom0/WMInstall
```

3. Register the following environment variables :

```
$ export ORACLE_BASE=/u01/apps/oracle
```

```
$ export ORACLE_HOME=/u01/apps/oracle/product/9.2.0
```

```
$ export ORACLE_SID=flexpm
```

```
$ export LD_LIBRARY_PATH=$ORACLE_HOME/lib:$LD_LIBRARY_PATH
```

```
$ export PATH=$ORACLE_HOME/bin:$HOME:/usr/sfw/bin:/usr/local/bin:$PATH:::
```

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> \  
-core_spec core.spec.9i -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 27 for details.

2.3.2 Install the Prospect Server Package

Perform the following steps to extract the Prospect software from the 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 [wminstall Options](#) on page 21.

To install the Prospect package

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

Enter, on one line only, the following command, which supports both Solaris 9 and Solaris 10:

```
$ ./wminstall -d <DB_CONNECT> -portbase <PORT_GROUP> \
  -core_spec core.spec.9i
```

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 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:

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`

2.4 Testing 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 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 Prospect server, you need to test the Listener to ensure that the external procedures are configured correctly.

To test the listener

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

```
$ cd $FLEXPM_HOME
```
4. Edit the `.profile.custom` 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 5.9, c4 Jan 16 2007 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.

2.5 Configuring the Prospect Server

Once you have installed the server software, you need to perform the following configuration tasks:

- [Setting the Time Zone and Daylight Saving Time Rules](#)
- [Adding Top-Level Network Elements](#)
- [Starting the Middleware](#)
- [Setting Partition Maintenance Parameters](#)

2.5.1 Setting the Time Zone and Daylight Saving Time Rules

The 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 Prospect server is located in California (Pacific time zone) and the user is running reports in Colorado (Mountain time zone). Before you begin using 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.

2.5.2 Adding Top-Level Network Elements

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

2.5.3 Starting the Middleware

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

2.5.4 Setting 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.

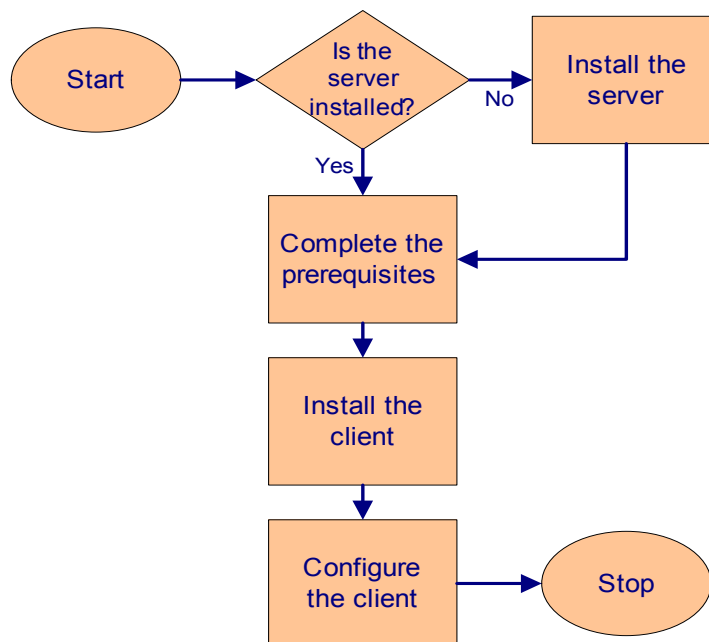
2.6 Prospect Client Installation

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

3 Installing the Prospect Client

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

Figure 2: Prospect Client Installation Process



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

3.1 Prerequisites

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

3.1.1 Minimum Hardware Requirements

The computer on which the 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 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 Prospect client
 - 3.1 MB of free registry space

3.1.2 Recommended Hardware Requirements

To ensure full performance of the Prospect client, it is recommended that the computer on which the 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 Prospect client
 - 3.1 MB of free registry space

3.1.3 Software Requirements

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

- Windows 2000 w/ Service Pack 2 or Windows XP operating system (Windows XP is recommended)
- Excel 2000 or later (Excel XP is recommended) with Microsoft Query installed
- Adobe Acrobat 5.0 or later
- WinZip 7.0 or later if installing from compressed files

Note: If the 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.

3.2 *Installing the Prospect Client*

To install the Prospect client, follow the below procedure.

To install the client from the CD

1. Insert the 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.

3.3 *Configure the Prospect Client*

Configuring the 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](#)

3.3.1 **Setting Up Connection Profiles**

A connection profile must be defined in the Connection Manager for the Prospect client to connect to the 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 Prospect client are automatically transferred to the Prospect client. If profiles with duplicate names exist in the client, the profile from the most recent client is transferred.

3.3.2 **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 *Prospect Administration Guide* for more information about adding user names to Prospect Explorer.

3.3.3 **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 2000

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

To set the macro security level in Excel 97

1. Open Excel.
2. From the TOOLS menu, select OPTIONS.
3. Select the GENERAL tab. Make sure the MACRO VIRUS PROTECTION check box is cleared. This will allow macros to be automatically enabled.

3.4 Uninstalling the Prospect Client

To uninstall the 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 `core.spec` and `modules.spec` files. The following table describes each option.

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

Table 1: Command Line Options

<i>Command</i>	<i>Description</i>
<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>core.spec</code> and <code>modules.spec</code> <code><DBCONNECT></code> element which specifies the DB_CONNECT string used to connect to the 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>core.spec</code> and <code>modules.spec</code> <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.spec</code> and <code>modules.spec</code> <code><CORE_INSTALLDIR></code> element which specifies the default subdirectory of <code><BASEDIR></code> where this version will install. For example, if the core install directory is 7.2, <code>-i=8.2</code> would override the default of 7.2 with the 8.2 value.
<code>-portbase</code>	Overrides the <code>core.spec</code> and <code>modules.spec</code> <code><PORTBASE></code> element which specifies the default port. For example, if the base port is 6440, <code>-portbase=12200</code> would override the default value of 6440 with the 12200 value.
<code>-l -licensehost</code>	Overrides the <code>core.spec</code> and <code>modules.spec</code> <code><LICENSEHOST></code> element which specifies the server that manages licenses for this installation. For example, <code>-licensehost=MyServer</code> would override the default value of <code>localhost</code> .

Table 1: Command Line Options (Continued)

<i>Command</i>	<i>Description</i>
<code>-t -tmpdir</code>	Overrides the <code>core.spec</code> and <code>modules.spec</code> <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/tmp</code> .
<code>-preview</code>	Performs global pre-validation steps and lists the installation steps that <code>wminstall</code> will perform without installing the software.

Command Line Example:

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

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

Appendix B Sample Output for wminstall Preview

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

```
+-----+
| Processing : ./wminstall
+-----+
| Start Time : 15:30:47
| Date : 2006_01_17
+-----+
| Core Defaults :
| DBCONNECT : flexpm/flexpm@flexpm
| BASEDIR : /u01/apps/WatchMark/FlexPM
| CORE_INSTALLDIR : ProspectBase
| PORTBASE : 6440
| LICENSEHOST : localhost
| TMPDIR : /var/tmp
| CLASSPATH : ./thirdparty/libs/
jython.jar:./thirdparty/libs/log4j.jar:./thirdparty/libs/jdom.jar:./
thirdparty/libs/wmq.jar:/u01/apps/oracle/product/9.2.0/jdbc/lib/
classes12.zip:.
+-----+
| Module Overrides :
| DBCONNECT : <No Override>
| BASEDIR : <No Override>
| CORE_INSTALLDIR : <No Override>
| PORTBASE : <No Override>
| LICENSEHOST : <No Override>
| TMPDIR : <No Override>
| CLASSPATH : <No Override>
+-----+
| Passed Params :
| Process Mode : PREVIEW
```

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```
+-----+
| Core Composite Defaults  :
|       DBCONNECT          : flexpm/flexpm@flexpm
|       BASEDIR             : /u01/apps/WatchMark/FlexPM
|       CORE_INSTALLDIR    : ProspectBase
|       PORTBASE            : 6440
|       LICENSEHOST        : localhost
|       TMPDIR              : /var/tmp
|       CLASSPATH           : ./thirdparty/libs/
jython.jar:./thirdparty/libs/log4j.jar:./thirdparty/libs/jdom.jar:./
thirdparty/libs/wmq.jar:/u01/apps/oracle/product/9.2.0/jdbc/lib/
classes12.zip:..
+-----+
| Check Depends           :
|       Basedir             : /u01/apps/WatchMark/FlexPM
exist
|       Installdir          : /u01/apps/WatchMark/FlexPM/
ProspectBase does not exist
|       sqlplus             : Schema does not exist
+-----+
| Registry Info           :
|       FlexPM_80212I.tgz   : INSTALL - CORE - 8.0.2.1.02
+-----+
| Vendor Tarball          :
|       Module - NorCDMA, version - 5.2.1.0.0.3 : All prerequisites met
|       FlexPM-NorCDMA_52100I.tgz               : INSTALL - VENDOR -
5.2.1.0.0.3
+-----+
| Processing Steps        :
|       TARBALL - FlexPM_80212I.tgz              : INSTALL
|       PRE_INSTALL - ProspectBase               : config/class/wmq.class
|       INSTALL - ProspectBase                   : install/core_inst.sh
|       TARBALL - FlexPM-NorCDMA_52100I.tgz      : INSTALL
|       INSTALL - ../NorCDMA                     : install/install_scdma.sh
+-----+
| Performing Global PRE Routines :
+-----+
|       PRE_VALIDATE      :
|       scripts/check_os.class -o 5.8            : Return Code : 0
|       scripts/check_perl.class                  : Return Code : 0
|       scripts/check_space.class -s 400 -i /var/tmp : Return Code : 0
+-----+
| Preview option selected :
|       Shutting down after preview               : Warning
+-----+
```


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```
|   Error/Warning Summary   :  
| Warning   Shutting down   Preview option  
selected  
+-----  
|   End Time    : 15:31:00  
|       Date    : 2006_01_17  
+-----
```

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Appendix C 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.

C.1 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.

C.2 Validation Checks

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

C.2.1 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).

C.2.2 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.

C.2.3 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.

C.2.4 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.

C.2.5 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.

C.2.6 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.

C.2.7 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.

C.2.8 `middleware_status`

Purpose

Checks to see if a DataServer is running, which indicates that the middleware is up and running.

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.

C.2.9 `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.

C.2.10 `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`.

C.2.11 `check_space`

Purpose

Checks to ensure that the installation directory has the required amount of space for temporary installation processing. (The installation directory is set with the `-i` 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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