



WinINSTALL 10.1
MSI Packager Professional

Installation Guide





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INSTALLING MSI PACKAGER PROFESSIONAL



Use the following instructions to install WinINSTALL MSI Packager Professional.

IN THIS MANUAL

- “Requirements” on page 2 lists the hardware, administrative permissions, and knowledge required to deploy MSI Packager Professional.
- “Installing” on page 6 includes instructions for installing and setting up MSI Packager Professional.

REQUIREMENTS

HARDWARE REQUIREMENTS

Make sure that you have the following hardware.

Administrator Workstation



Disk space: 85 MB plus sufficient additional space to store application packages built and edited with WinINSTALL

Display: 1024 X 768 or higher resolution and at least 16-bit color

Operating system: 32bit Windows 2000 SP4, XP, 2003 Server, 2003 Server R2

NOTE: For Oracle databases, client software must be installed before you run the Console or initialize your WinINSTALL database.

Database Server



Disk space: Adequate disk space for the database

Software for any of the following databases:

- Microsoft SQL Server 2000 SP4, SQL Server 2005
- Microsoft SQL Server 2005 Express Edition
- Microsoft SQL Express 2005
- Oracle 9i

NOTE: Installations that use the SQL Server 2005 Express Edition database do not require a dedicated database server. This database can run on the administrator workstation desktop and is sufficient for MSI Packager Professional installations.

Windows File Server for WinINSTALL Share



Disk space: 235 MB (for the network components of WinINSTALL) plus adequate disk space to store application packages

Operating system: Any UNC accessible share regardless of platform. A dedicated server is not required.

Reference Machine



Operating system: Windows 2000 SP4/XP/2003 with IE 4.0

NOTE: A reference machine is a workstation used by WinINSTALL to develop software installation packages. This machine typically includes only the operating system and any necessary service packs and hot fixes. Using two reference machines can help reduce downtime. You can use one machine to create packages while restoring the other one to its clean state. You can also use a virtual machine instead of a physical reference machine.

SOFTWARE REQUIREMENTS

The minimum software requirements for installing WinINSTALL are listed below for each WinINSTALL component:

WININSTALL DATABASE

The WinINSTALL database can be any of the following:

- Microsoft® SQL Server 2005 Express Edition
- Microsoft® SQL Server 2000
- Oracle 9i or later

WININSTALL SERVER

OPERATING SYSTEM

Recommended: Windows XP / Windows 2000 / 2003 Server

Alternate: Windows NT 4.0 with sp 6a and IE 6 installed

MICROSOFT WINDOWS INSTALLER 3.1 ON WINDOWS 2000 AND ABOVE, WINDOWS INSTALLER 2.0 ON WINDOWS NT

Windows Installer is included with Windows XP/2000 but must be separately installed with Windows NT. Deploying the WinINSTALL Agent will automatically install or upgrade Windows Installer as necessary.



WARNING: *.If it is necessary to upgrade to or install Windows Installer 3.1 during the WinINSTALL agent deployment, the server will reboot at the end of the installation.*

MICROSOFT DATA ACCESS COMPONENTS (MDAC) 2.71



WARNING: *.If an earlier version of MDAC is already installed on the server at the time when the WinINSTALL server agent is deployed, the MDAC upgrade is liable to cause the server to reboot.*

ORACLE CLIENT SOFTWARE

If you are using Oracle® as your database, you must first manually install the client software in order to have database connectivity. Database connectivity is required for you to run the Console or use the Database Creation Wizard to initialize your WinINSTALL database.

WININSTALL SHARE

OPERATING SYSTEM

The WinINSTALL share is a shared hierarchy of folders and files. As a result, the WinINSTALL share machine can be running any operating system.

The machine running setup must be running Windows 2000 or greater. The WinINSTALL share setup allows installing the share to a network drive.

MICROSOFT WINDOWS INSTALLER 3.1

Setup requires Microsoft Windows Installer 3.1 or greater. WinINSTALL checks for the presence of this program during setup and will automatically install or upgrade it as required.



WARNING: *.If it is necessary to upgrade to or install Windows Installer 3.1, the machine will reboot at the end of the installation.*

WININSTALL REFERENCE MACHINE (CLEAN CLIENT MACHINE ON WHICH PACKAGES ARE DISCOVERED)

- Windows XP / Windows 2000 / 2003 / 98 with IE 6 / 95 with IE 5.5 and WinSock 2 / Windows NT 4.0 with sp 6a and IE 6

NOTE: A package must be created on the same operating system as the client workstation on which the package will be installed.

- Microsoft Windows Installer 3.1 on Windows 2000 and above, Windows Installer 2.0 on Windows NT and Windows 95/98

NOTE: This file is required only if you are building Windows Installer packages. It is included with Windows XP/2000 but must be separately installed with Windows NT. When Windows 9x is installed on the Reference Machine, you cannot create an .MSI package directly with Discover. You must first create an .NAI package and then convert it to .MSI.

ADMINISTRATOR REQUIREMENTS

You must have administrative rights for all of the required hardware. To use WinINSTALL in a production deployment, you should also have:

- An in-depth understanding of your company network and security policies.
- The security rights or permissions required to access network resources.
- A solid understanding of all the Windows platforms in use on the network.
- A working knowledge of the Windows registry.
(When WinINSTALL discovers an application, you may need to modify a registry entry to fit your network needs. An understanding of the Windows registry can be invaluable when building packages. You should familiarize yourself with the use of REGEDIT . EXE and REGEDT32 . EXE, and the differences between these two registry editors. These two utilities can be found in the \Windows (or \Winnt) and \Windows\System32 or (\Winnt\System32) directories, respectively.)
- An understanding of the Microsoft Windows installer (MSI) and MSI technology.
(When working with MSI applications, knowledge of the MSI technology and terminology is helpful. You should have a solid understanding of the registry, MSI table relationships, and MSI properties.)

For certain complex situations, some users prefer to create scripts. WinINSTALL includes support for user-written scripts to execute Console operations and to modify and extend Installer functionality for WinINSTALL (.NAI) packages.

INSTALLING

BEFORE YOU START

- Determine which computers to use for the share and the Console. Make sure you have administrative access to these computers.
- Make sure you have a clean reference machine or access to a virtual machine.
- Decide which of the following databases to use and make sure you have performed the following preliminary steps for your database:

For	Preliminary steps
Microsoft SQL Server 2005 Express Edition	<ul style="list-style-type: none"> • No preliminary steps are required; No special hardware is required. <p>NOTE: The SQL Server 2005 Express Edition database is sufficient for MSI Packager Professional installations and is the simplest database to set up. You can install it with the downloaded WinINSTALL setup file when you install the Console and share.</p>
Microsoft SQL Server 2000	<ul style="list-style-type: none"> • Make sure you have administrative access to the database and know the database server name.
Oracle 9i	<ol style="list-style-type: none"> 1. Use Oracle tools to create the database. Make sure that you have administrative access to the database and know the database service name. 2. Install Oracle client software on the administrator workstation on which you are installing WinINSTALL.

INSTALL THE WININSTALL CONSOLE AND SHARE

- 1 Double-click the downloaded WinINSTALL file (for example, wininstallpo-10-eval-w32.exe).
- 2 Follow the instructions on the WinINSTALL setup wizard.

The wizard checks the version of the Windows Installer on the workstation and upgrades it if necessary. If it finds a prior installation of WinINSTALL, it aborts the installation and prompts you to uninstall the earlier version. If Windows Installer 3.1 is upgraded or installed as part of the Console setup, the workstation must be rebooted.

3 When prompted, select the *Install the WinINSTALL Share* option.

4 Select database options as follows:

For this database...

Do this...

Microsoft SQL Server 2005 Express Edition

1. Select *Install SQL Server 2005 Express Edition*.
2. Select *Show advanced Microsoft SQL Server 2005 Express Edition properties* and specify whether to use Windows integrated security (default) or SQL security and whether to enable network access.
3. Select *Open the Database Wizard* to use the database wizard to create your database (recommended).
4. When the installation is complete, follow the instructions in "Set Up the WinINSTALL Database With the Database Setup Wizard" on page 8.

Microsoft SQL Server or Oracle

1. Choose not to install SQL Server 2005 Express Edition and then select which database to use.
2. If you want to configure the database from a command line, follow the instructions in "Appendix A: Configuring the Database" on page 11.
3. If you want to run the database wizard from your console machine, select *Open the Database Wizard*. Then, when the installation is complete, follow the instructions in "Set Up the WinINSTALL Database With the Database Setup Wizard" on page 8.

CAUTION: If you are using Microsoft SQL Server and your console machine does not have the Microsoft SQL Server client software, do not select *Open the Database Wizard*. (This wizard requires the database client software.) You can run the database wizard on the SQL Server machine (from the WinINSTALL share) later to set up the database.

NOTE: The SQL Server 2005 Express Edition database is sufficient for MSI Packager Professional installations and is the simplest database to set up.

SET UP THE WININSTALL DATABASE WITH THE DATABASE SETUP WIZARD

The WinINSTALL Database Setup Wizard either creates and initializes a Microsoft SQL Server or SQL Server 2005 Express Edition database, or initializes an existing Oracle 9i database.

NOTES:

If you are using an Oracle database, you must create the WinINSTALL database before initializing it with the WinINSTALL Database Setup Wizard.

When you install WinINSTALL, you have the option of running the Database Setup Wizard at the end of setup. Alternatively, after you have installed WinINSTALL, you can open the database wizard in the WinINSTALL share bin directory as shown in the following instructions.



Database
Service Icon

- 1 If you are using SQL Server 2005 Express Edition and the database service is not running, start it. (The SQL Server 2005 Express Edition database is running when the database service icon appears in the system tray with the green arrow on.)
- 2 If the WinINSTALL Database Setup wizard is not open, browse to the WinINSTALL share, and in the `Bin` folder, double-click `WIDBSetup.exe`.
- 3 When prompted:
 - For Microsoft SQL
 1. Specify the server name.
 2. Choose Windows Authentication or enter the credentials (username and password) required to access the database server.
 3. Click *Next* and then click *Create*.
 - For Oracle
 1. Specify the service name and enter the credentials (username and password) required to access the database server.
 2. Click *Next* and then click *Initialize*.

TIP: If the database server name is not on the list, you can type it in.

SPECIFY THE WININSTALL SHARE AND DATABASE FOR THE CONSOLE

The first time you open the WinINSTALL Console, the WinINSTALL Default Settings wizard opens. Use this wizard to configure WinINSTALL as shown in the following instructions.

- 1 From the Start menu, choose All Programs | Scalable WinINSTALL | WinINSTALL Console.
- 2 On the WinINSTALL Default Settings wizard, verify the WinINSTALL share path for the WinINSTALL Console and click *Next*.
- 3 Click *Choose Database*.
- 4 On the *Data Link Properties* dialog box, on the *Provider* Tab, select the type of database you are using and click *Next*. (If using SQL Server 2005 Express Edition or Microsoft SQL Server 2000, select *Microsoft OLE DB Provider for SQL Server*.)
- 5 On the *Connection* Tab, select the name of the system the database is running on.
- 6 If you set up the database to use Windows authentication, select that option. If not, choose to use a specific user name and password.
- 7 On the *Select the Database on the server* list, select the name of the database.
- 8 Click *Test Connection*.

If the connection is successful, the "Test Connection Succeeded" message is displayed.

- 9 After the connection test succeeds, click *OK*.

The WinINSTALL Console is displayed.

The Console window has two major panes:

The Tree pane is the left pane in the Console. The top-level nodes in the Tree pane represent major functional areas of the product. Selecting a node in the Tree pane displays context sensitive information in the Data pane (on the right of the window). Selecting sub-nodes displays nested functionality.

The Data pane is the right pane of the Console. Detailed context-sensitive information displays in a tabbed format, with the appearance and content determined by the node that is selected in the Tree pane. In the Data pane, you can modify detailed information about the selected node or sub-node.

APPENDIX A: CONFIGURING THE DATABASE

Use the following instructions to configure the WinINSTALL database from the command line.

NOTE: The database schemas for Microsoft databases and Oracle databases are slightly different. A complete listing of all tables in the WinINSTALL database is included in the file `DBSchema.htm`. On the WinINSTALL share, this file is in the `\Bin\Help` folder. On Console machines, it is in the `\Program Files\OnDemand\WinINSTALL\Help` folder.

This schema information is helpful when using third-party database mining or reporting tools such as Crystal Designer to create custom queries and reports. WinINSTALL also includes two `.DDL` files which can be used to initialize a WinINSTALL database without the Database Setup Wizard. These files, also located in the WinINSTALL share `\Bin` directory, are named `WINSTALL.DB.DDL` (for Microsoft databases) and `WINSTALL.DB_ORC.DDL` (for Oracle databases).

CONFIGURE A MICROSOFT DATABASE FROM A COMMAND LINE

- 1 Open a command-line window and do one of the following:
 - If you accepted the defaults during installation or if you want to use Windows authentication, create the database by entering:


```
C:\>OSQL -E -Q "create database mydataBase"
```

where *mydataBase* is the database name.
 - If you did not accept the defaults during installation, or if you want to use SQL Server authentication, create the database by entering:


```
C:\>OSQL -U sa -P <password> -Q "create database mydataBase"
```

where *mydataBase* is the database name.
- 2 To create the tables needed by WinINSTALL, use one of the following commands (change the database name as needed).
 - If you accepted the defaults during installation or are using Windows authentication, create the tables using the following command:


```
C:\>OSQL -E -d mydataBase -I -i \\server\WIShare\Bin\WINSTALL.DB.DDL
```
 - If you did not accept the defaults during installation or are using SQL Server authentication, create the tables using the following command:


```
C:\>OSQL -U sa -P <p/w> -d mydataBase -I -i \\server\WIShare\Bin\WINSTALL.DB.DDL
```

As the tables are created and populated, numbers are displayed. After the database is created, a command prompt is displayed.

CONFIGURE AN ORACLE DATABASE FROM A COMMAND LINE

NOTE: Before you can configure an Oracle database for WinINSTALL, the database must be created and its service name must be available. The service name mappings are found in the file `TNSNAMES.ORA` in the `\Oracle\ora90\network\admin` directory.

- 1 To initialize the WinINSTALL database, run the oracle utility `SQLPLUS`, found in the Oracle `\bin` directory (for example, `C:\Oracle\ora90\bin`). This utility processes the supplied DDL script `WINSTALL.DB_ORC.DDL`, located in the WinINSTALL Share `\bin` directory.
- 2 After you have verified that the Oracle database is created, open a command prompt window to execute `sqlplus.exe`.
- 3 To use `SQLPLUS` to execute the DDL script, enter the following command:

```
sqlplus SYSTEM/password@MYDBSERVICENAME
@C:\WINSTALL.DB_ORC.DDL
```

This command line instructs `sqlplus` to login as the user `SYSTEM`, with a password of `password`, to the database indicated by `MYDBSERVICENAME` and to execute the DDL file `C:\WINSTALL.DB_ORC.DDL`.

If you do not supply a service name after the password, `SQLPLUS` connects to the default (local) database.

NOTE: When creating a Japanese-language Oracle database, the following language specifications are recommended:

Database Character Set: `JA16SJIS`

National Character Set: `AL16UTF16`
