

TestPartner Installation and Configuration Guide

Release 5.4.0



Customer Support Hotline: 1-800-538-7822

FrontLine Support Web Site: http://frontline.compuware.com

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Introduction



- Who Should Read This Guide
- Related Publications
- World Wide Web Information
- Getting Help

Who Should Read This Guide

This guide is intended for administrators who are installing or Configuring TestPartner; it does not contain reference or usage information. You can find that information in your product's online help facility and documentation set.

Compuware assumes that you are familiar with basic Microsoft Windows navigation. If this is not the case, familiarize yourself with the documentation for Microsoft Windows before reading this guide.

Related Publications

The TestPartner installation documentation set includes:

- The *TestPartner Installation and Configuration Guide*, which contains system requirements and instructions for installing TestPartner.
- The License Installation Guide, which contains instructions for licensing your QACenter product.

All of these books are provided in PDF format only. You can access the online versions of these books from the installation bookshelf (as described below) or from Compuware's FrontLine customer support Web site at http://frontline.compuware.com

Viewing and Printing Online Books

To access these online books:

- 1 Insert the QACenter CD into the CD-ROM drive. If the CD browser does not automatically start, navigate to the CD's root directory and run setup.exe.
- 2 Click View QACenter Documentation. The documentation bookshelf opens in Acrobat Reader. (If necessary, Acrobat Reader can be installed from the QACenter CD by clicking Install 3rd Party Software, then clicking Install Adobe Acrobat Reader.)
- **3** From the bookshelf, select the installation guide that you wish to view.

Because PDF is based on PostScript, a PostScript printer is the most reliable way to print online books. In most cases, you can also print .pdf files to PCL printers. If you cannot print the .pdf files to your printer, refer to Adobe's Web site at http://www.adobe.com for troubleshooting information.

World Wide Web Information

To access Compuware Corporation's site on the World Wide Web, point your browser at http://www.compuware.com. The Compuware site provides a variety of product and support information.

FrontLine Support Web Site: You can access online customer support for Compuware products via the FrontLine support web site. FrontLine provides fast access to critical information about your QACenter product. You can read or download documentation, frequently asked questions, and product fixes, or e-mail your questions or comments. To access FrontLine, follow these steps:

- 1 Open a web browser and go to: http://frontline.compuware.com The Welcome to FrontLine page appears.
- 2 On the right side of the page, enter your login ID and password and click the **Login** button.
- **Note:** If you are a first-time visitor, click the **Register** button to receive your free password to access FrontLine. After you complete the registration form, your login ID and password will be e-mailed to you and your account will be activated.

3 From the drop-down list in the center of the page, select a product and click the **Go** button. You will see the product's FrontLine home page, where you can access documentation, technical information, fixes, and other support items.

Getting Help

At Compuware, we strive to make our products and documentation the best in the industry. Feedback from our customers helps us maintain our quality standards. If you need support services, please obtain the following information before calling Compuware's 24-hour product support hotline:

- The name, release (version), and build number of the QACenter product. This information is displayed when you select the About command from your product's Help menu. The name and release are also on the covers of the product documentation.
- Installation information, including installed options, whether the product uses local or network databases, whether it is installed in the default directories, whether it is a standalone or network installation, and whether it is a client or server installation.
- Environment information, such as the operating system and release on which the product is installed, memory, hardware/network specifications, and the names and releases of other applications that were running.
- The location of the problem in the QACenter product software, and the actions taken before the problem occurred.
- The exact product error message, if any.
- The exact application, licensing, or operating system error messages, if any.
- Your Compuware client, office, or site number, if available

Compuware Customer support



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Chapter 1 Getting Started



- Overview of QACenter
- Installation Types
- Before Installation

Overview of QACenter

QACenter is a suite of automated software quality products for enterprise and e-business applications. *QACenter* offers a comprehensive solution for IT organizations concerned with assuring quality and performance, while keeping pace with faster development cycles. *QACenter* includes:

Compuware Central: An HTML-based component that provides a Web framework for managing and performing testing efforts from the beginning to the end of a project. Compuware Central supports a complete, seamless testing process from requirements management to test execution to results analysis and defect tracking. Because it is Web-based, Compuware Central supports remote testing for those organizations whose testing and development teams are not in the same geographic location. Compuware Central's flexibility allows small to large companies to customize it according to their needs.

QADirector: Coordinates the entire testing process by organizing, tracking, and executing automated and manual tests. *QADirector* integrates with Compuware's testing, program analysis, defect tracking, and requirements management tools.

*QA*Hiperstation+: Works with mainframe *QA*Hiperstation to test hostbased applications directly from your Windows desktop. This integrated, workstation-based interface tool uses 32-bit code that provides improved performance and better stability on 32-bit Windows platforms. **QARun:** Tests enterprise client/server applications. QARun creates and runs test scripts that support a wide variety of development tools and the diverse components of today's corporate environments. QARun couples advanced verification facilities with error-recovery mechanisms to reliably test local and remote applications.

Reconcile: Helps create and control project requirements. It stores the project requirements in a relational database. You can view the requirements through Microsoft Word, a reporting view (grid), and the Web. Reconcile is fully integrated with QADirector and TrackRecord. Working together, these products help you manage project development from conception through delivery.

TestPartner: Tests Web- and Windows-based applications that use Microsoft technologies. You can record user sessions with the application, add validation functions, and replay the sessions later to ensure that the application works as expected. TestPartner's scripting language is Visual Basic for Applications (VBA); it supports testing of Java, Visual Basic, and Visual C++ applications; browser-based Web applications; and COM components including both ActiveX controls and automation objects.

TrackRecord: Records and reports information about products being developed or supported. Information on team members, testers, schedules, and defect reports is recorded in an object-oriented database; it can be retrieved using TrackRecord's query and reporting features.

WebCheck: Checks the quality of even the largest web sites. WebCheck automatically scans a web site for more than 50 potential types of problems and provides 19 HTML reports. WebCheck is integrated with *QA*Run and *QA*Director and can be used as a stand-alone product.

In addition to the *QAC*enter suite of products, the *QAC*enter CD includes Adobe Acrobat Reader, Microsoft Internet Explorer, Java 2 Runtime Environment, and Microsoft Virtual Machine installation programs. To install one or more of these products from the *QAC*enter CD, click **Install 3rd Party Software**, then click on the product installation you would like to perform.

Installation Types

Tip: An upgrade to a new release does not require you to uninstall the current release provided the current release is not a beta version or TestPartner 5.0.4 or earlier.

Before you begin, determine the type of installation you need to perform: Initial Installation: An initial installation is the first-time installation of a product on your computer. See the installation chapter for each product for instructions.

Modify: A modification of the product installation occurs when you add or remove one or more of a product's components, but not all of them. See the maintenance chapter for instructions.

Repair: A repair installation may be necessary due to a corruption of a program or the inadvertent deletion of the product. See the maintenance chapter for instructions.

Remove: A remove or uninstall removes all the components of a product. See the maintenance chapter for instructions.

Before Installation

Before installing any *QA*Center product, you should carefully review the following information:

System Requirements

Review the system requirements to ensure that you meet the prerequisites for the successful installation and operation of the product. System requirements are listed in the Release Notes as well as in this book.

Release Notes

Review the Release Notes for information about new features, technical notes, and known issues that may enhance or impact your product's performance. Release Notes contain recent changes that may not be included in your *QA*Center product documentation.

Release Notes can be viewed from the *QA*Center CD or on FrontLine, Compuware's product support web site. The Release Notes on FrontLine are periodically updated as new information becomes available.

To access the Release Notes from the QACenter CD, follow these steps:

- 1 Insert the QACenter CD into the CD-ROM drive. If the CD browser does not start automatically, navigate to the CD's root directory and run setup.exe.
- 2 Click View QACenter Release Notes. The Release Notes open in your default web browser.

- **3** Read the Release Notes online, or print the document.
- 4 After reading and/or printing the Release Notes, close the document to return to the CD browser.
- 1 Open a web browser and go to: http://frontline.compuware.com The Welcome to FrontLine page appears.
 - 2 On the right side of the page, enter your login ID and password and click the **Login** button.
 - **Note:** If you are a first-time visitor, click the **Register** button to receive your free password to access FrontLine. After you complete the registration form, your login ID and password will be e-mailed to you and your account will be activated.
 - **3** From the drop-down list in the center of the page, select a product and click the **Go** button. You will see the product's FrontLine home page.
 - 4 On the left side of the product's homepage, select the **Documentation** link. You will see the product's documentation page, which includes links to Release Notes and other documentation types.
 - 5 Click the HTML or PDF icons to view documents.

To access the Release Notes on FrontLine, follow these steps:

Chapter 2 Installing TestPartner



- System Requirements
- Installing TestPartner
- Setting Up a SQL Server or MSDE Database with TestPartner
- Setting Up an Oracle Database with TestPartner
- Setting Up SQL Server or Oracle for TestPartner Without a Domain
- Creating a Data Source Name
- Migrating TestPartner Objects from a Standard Character Set to UTF8 (for Unicode)
- Logging On and Starting TestPartner

System Requirements

TestPartner has the following minimum system requirements:

- Microsoft Windows Server 2003 (formerly named .NET server 2003) including Standard Edition (32 bit) and Enterprise Edition (32 bit), Windows XP Professional with Service Pack 1a or Service Pack 2, or Windows 2000 with Service Pack 4.
- Mid-level Pentium III PC with 256 MB of RAM.
- 200 MB of available disk space.
- 800 x 600 or higher screen resolution.
- Microsoft Visual Basic for Applications (VBA) 6.4 (6.4.9969, 6.4.9971, or 6.4.9972), 6.3 (6.0.9108), 6.2x (6.0.8967), or 6.2 (6.0.8714).
 TestPartner installs VBA 6.2 (6.0.8714).

- Microsoft Internet Explorer 6.0 (SP1), Microsoft Internet Explorer 5.5 (SP2), or Microsoft Internet Explorer 5.01 (build 5.00.3700.100, Update Versions SP4; Q822925).
- Microsoft SQL Server v2005, v2000 SP3a, Oracle v9.2.0, v9.0.1, or 8.1.7 database on a Microsoft platform. For SQL Server v2000 SP3a, MDAC 2.6 SP2 (2.62.7400.1) is required for establishing an ODBC connection. Microsoft MSDE 2.0 database can be used for up to 5 users. TestPartner also supports Microsoft Access 2000 as a single-user database.
- Adobe Acrobat or Acrobat Reader (provided on the *QA*Center CD) to view the online books in PDF format.
- Additional resources may be required for testing tools and the application under test.

Input Method Editor (IME) Support

TestPartner supports the following IMEs for the listed input systems.

Legend X = Supported

Japanese Input System:

	Name	Windows 2000	Windows XP	Windows 2003
MS-IME2000	imejp.ime	Х	Х	Х
MS-IME2002	imjp81.ime		Х	Х
MS-IME2003	imjp9.ime		Х	Х

Korean Input System:

	Name	Windows 2000	Windows XP	Windows 2003
MS-IME98	imekr98u.ime	Х		
IME 2002	imekr61.ime		Х	Х
IME 2003	imekr.ime		Х	Х

Simplified Chinese

Input System:

Description	Name	Windows 2000	Windows XP	Windows 2003
QuanPin	winpy.ime	Х	Х	Х

Description	Name	Windows 2000	Windows XP	Windows 2003
MS-PinYin98	pintlgnt.ime	Х	Х	
MS-PinYin 3.0	pintlgnt.ime		Х	Х
NeiMa	wingb.ime	Х	Х	
ZhengMa	winzm.ime	Х	Х	Х
ShuangPin	winsp.ime	Х	Х	Х
WuBi86	winwb86.ime	Х*	Х*	Х*
WuBi98	winwb98.ime	Х*	Х*	Х*
Enhanced Unicode	surime.ime		Х*	Х*

* Only appears with Windows XP and Windows Server 2003 with Office XP Multilingual Support complete install.

Traditional Chinese Input System:

	Name	Windows 2000	Windows XP	Windows 2003
Alphanumeric	romanime.ime	Х	Х	Х
Unicode	unicdime.ime	Х	Х	Х
Quick	quick.ime	Х	Х	Х
Phonetic	phon.ime	Х	Х	Х
New Phonetic	tintlgnt.ime	Х	Х	Х
New ChangJie	cintlgnt.ime	Х	Х	Х
DaYi	dayi.ime	Х	Х	Х
ChangJie	chajie.ime	Х	Х	Х
Big5 Code	winime.ime	Х	Х	Х
Array	winar30.ime	Х	Х	Х

Notes: IMEs not listed above are not supported.

Text Services FrameWork (TSF) and the Rich Edit control (version 4.1 and above) are not supported for recording. This does not affect playback.

Office 2003 IMEs are only supported for the Japanese Input System.

Installing TestPartner

This section explains the installation process for TestPartner. Please review "System Requirements" on page 13 to ensure that TestPartner will install and operate properly on your computer.

Before proceeding with the TestPartner installation, Compuware recommends that you review the TestPartner Release Notes which includes information about new features, technical notes, and known issues. The Release Notes also document recent changes that might not be included in TestPartner documentation. Please review this information carefully; the Release Notes document is updated as new product information becomes available. To review the Release Notes prior to installation, refer to the "Before Installation" section of the "Getting Started" chapter.

Required: Compuware recommends that you exit all non-essential Windows programs before running this setup program. Some Windows programs may interfere with the installation process.

If TestPartner version 5.0.4 or earlier is installed on your computer, or if you have any beta version installed, Compuware recommends that you back up your data and uninstall TestPartner before installing the new version. Failure to do so may cause problems.

To install TestPartner, follow these steps:

- 1 If you are installing TestPartner on Windows 2000 or Windows XP Professional, log on as a user with administrator permissions (user must have full administrator permissions in order to both install and use TestPartner).
- 2 Insert the Compuware CD into the CD-ROM drive. The CD browser should automatically appear. If it does not, open the **Run** option from the **Start** menu. Click the **Browse** button to navigate to the setup.exe file on the CD-ROM disk.
- **3** Click Install QACenter Products.
- 4 Click **Install TestPartner**. The Choose Setup Language dialog box appears.
- 5 Select the language for which you want TestPartner installed from the list and click **Next**.

An installation setup screen appears, then the Welcome dialog box appears.

6 Read the welcome screen and click **Next**. The License Agreement dialog box appears.

- 7 Read the license agreement and click **Yes** to accept the terms of the agreement. The Customer Information dialog box appears.
- 8 Type your name and company in the User Name and Company Name fields. Click Next. The Choose Destination Location dialog box appears.
- 9 Select a location for the TestPartner installation.
 - By default, TestPartner installs in the folder x:\Program Files\Compuware\TestPartner where x is the drive where Windows resides on your computer.
 - ◇ To specify a different path, click the Browse button and select an existing folder or type the path name in the Path field. Click OK.
- **10** Click **Next**. The Select Components dialog box appears. This dialog box allows you to select or clear components for installation. Highlight a component to view a brief description.
- **11** Select the components you want to install:
 - Active Object Recognition: Lets you define support for Java controls that may not be recognized by TestPartner out of the box. The Active Object Recognition (AOR) utility includes a collection of core Java classes and lets you add custom Helper classes and metadata based on your application and requirements. This component is typically used by advanced Java users.
 - SAP eCATT Integration: Configures TestPartner for proper integration with SAP eCATT, the online SAP testing tool for the SAP Web Application Server 6.20. This allows for storage/retrieval of TestPartner data from the eCATT repository and full integration for external testing from eCATT.
 - Visual Studio Integration: There are two selections for Visual Studio Integration. Microsoft Visual Studio 2005 Team Suite must be installed to install these features.
 - Visual Studio Team Suite Integration: This option installs TestPartner's integration with Microsoft Visual Studio 2005 Team Suite. This integration allows you to use TestPartner as the testing solution for Visual Studio 2005 test projects. With the option installed, you can create TestPartner functional test suites, run TestPartner scripts, analyze test runs, and launch TestPartner from within Visual Studio 2005. Note that if selecting this feature, the Testing Tools sub-component of the Team Developer and Tester Tools component for Visual Studio 2005 Team Suite must be installed to install this feature.

- Visual Studio Team Test Load Agent Integration: This option installs TestPartner's remote testing integration with Visual Studio 2005. This integration allows TestPartner scripts to run on remote computers through the Microsoft Visual Studio 2005 Team Test Load Agent. Note that the Microsoft Visual Studio 2005 Team Test Load Agent and the Visual Studio 2005 Team Test Load Controller must be installed on the same computer to install this feature.
- Note: To start TestPartner functional testing in VisualStudio 2005 Team Suite, start VisualStudio 2005 Team Suite after installing TestPartner and click **Project>Add New Test...** or **Test>New Test...** When the Add New Test dialog box appears, select the Compuware Functional Test template and click **OK**.

Make your selection(s) and click **Next**. The Select Program Folder dialog box appears.

- 12 Specify a location for the TestPartner program shortcuts. You may type a new folder name, or select one from the existing folders list. Click Next. The Start Copying Files dialog box appears.
- **13** Review the summary of the settings that you specified and click **Next** to start copying the program files. The Setup Status dialog box displays the progress of the installation.
- 14 After the installation completes, the Setup Complete dialog box appears. Depending on the circumstances, you will see one of the following dialog boxes:
 - ◊ Display Release Notes and/or Register for FrontLine.
 - Display Release Notes: Select this check box to review the information in the Release Notes. This file contains information about new features, technical notes, and known issues that may enhance or impact TestPartner's performance. Release Notes contain recent changes that may not be included in your TestPartner product documentation.
 - Register for FrontLine: Select this check box to register for the FrontLine customer support site. The first time you access FrontLine, you are required to register and obtain a password. FrontLine provides fast access to critical information such as documentation, frequently asked questions, and product fixes.
 - Restart Your Computer: You may be prompted to restart your computer. If you are prompted to restart your computer, you may choose to restart it now (recommended) or to restart it later.
- **15** Click **Finish** to complete the installation of TestPartner.

Where To Go Next

• The evaluation license (CompuLock) supplied with your QACenter product allows you to install the product and run it for a specific time period without first installing a license. During this trial period, you will be informed of how much evaluation time remains.

At any time during the evaluation period, you can obtain and install a permanent license. When the evaluation period expires, you **must** obtain a license and install it before you can successfully run this product. See the *License Installation Guide* for instructions on installing a license. To access this online book:

- a Insert the QACenter CD into the CD-ROM drive. If the CD browser does not automatically start, navigate to the CD's root directory and run setup.exe.
- **b** Click View QACenter Documentation.
- c From the bookshelf, select the *License Installation Guide*.
- If Adobe Acrobat or Acrobat Reader is not installed on your computer, click Install 3rd Party Software, then Install Adobe Acrobat Reader from QACenter's CD browser. Adobe Acrobat or Acrobat Reader is required to view the online books in PDF format.
- TestPartner automatically configures an ODBC data source when installed using an Access Database. Before using TestPartner with other databases, you must create and configure an ODBC data source and an ODBC database. Continue to the following sections for instructions:
 - ♦ "Setting Up a SQL Server or MSDE Database with TestPartner" on page 20
 - ♦ "Setting Up an Oracle Database with TestPartner" on page 29
 - ♦ "Setting Up SQL Server or Oracle for TestPartner Without a Domain" on page 42.
- After you have created and configured your database resources, you are ready to begin using TestPartner. Refer to *TestPartner online help* for more information about the tasks and activities associated with preparing for, planning, building, and running test projects.

Setting Up a SQL Server or MSDE Database with TestPartner

TestPartner accesses scripts and other assets stored in the TestPartner database. This section describes how to set up a SQL Server or MSDE database for use with TestPartner.

Note: Compuware recommends that a database administrator or a person with general knowledge of database administration performs the database setup and configuration.

SQL Server/MSDE Database Connection Requirements

Each client machine uses an ODBC data source to connect to the database. As a result, connecting to the TestPartner database has the following requirements:

- Each machine running TestPartner must be able to access the machine where the database resides.
- TestPartner must be installed on all machines accessing the database.
- The database connection must be configured for use with TestPartner. See "Configuring a TestPartner Database Connection" on page 59.

Creating a New SQL Server Database

This section describes how to create a SQL Server 2000 database using SQL Server Enterprise Manager and a SQL Server 2005 database using SQL Server Management Studio. In addition to the following procedures, you must also populate the database with TestPartner tables using the Database Maintenance utility, which is described in "Preparing the SQL Server TestPartner Database" on page 26.

Create a SQL Server database on the server machine by following these steps (separate instructions are provided for both SQL Server 2000 and SQL Server 2005):

SQL Server 2000

- 1 From the SQL Server Enterprise Manager, expand the navigation tree until the Databases folder is visible.
- 2 Right-click the Databases folder and choose **New Database**. The Database Properties window appears.



3 In the Database Properties window, enter a name for the database in the **Name** field and click **OK**.

SQL Server 2005

- 1 In the Object Explorer of SQL Server Management Studio, right-click the Databases folder and choose **New Database**. The New Database window appears.
- 2 Enter a name for the database in the **Database Name** field.
- 3 Click OK.

Creating a New SQL Server Admin User

You need to create a SQL Server user with system administrator rights to perform subsequent setup steps. To create a SQL Server admin user, follow these steps:

SQL Server 2000

1 In SQL Server Enterprise Manager, navigate to the Security folder and expand it. Right-click the **Logins** icon and choose **New Login**. The SQL Server Login Properties dialog box appears.

L Serv	er Login Propertie	es - New Login		
ieneral	Server Roles Da	stabase Access		
	Name:			
Auther	ntication			
	€ Windows Auth	entication		
	Domain:			-
	Security acces	\$\$:		
	Grant a	ocess		
	C Deny a	ccess		
Defaul	C SQL Server Ar Bassword	uthentication		
	specily the defaul	cianguage anu uau	abase for this log	
UE	Database:	master		•
	Language:	Default		-
	Eangeage:	and the second second second		-

- 2 Select the **General** page. Enter a user ID in the **Name** field and select **SQL Server Authentication**.
- 3 Click the Server Roles tab. Select System Administrators.
- 4 Click the **Database Access** tab. Select your TestPartner database and select db_owner in the database roles list that appears below. Click OK.

SQL Server 2005

- 1 In the Object Explorer of SQL Server Management Studio, navigate to the Security folder and expand it. Right-click the **Logins** icon and choose **New Login**. The New-Login window appears.
- 2 Select the **General** page. Enter a user ID in the **Login name** field. Select **SQL Server Authentication** and enter a password. Select the default database from the **Default database** drop-down list.
- 3 Select the Server Roles page. From the Server roles list, select sysadmin.
- 4 Select the User Mapping page.
- 5 In the **Map** column, select the check box for the database that your login can access. By default, the login name appears in the **User** column. Leave this value.

- 6 In the **Database role membership for** list, select **db_owner**.
- 7 Click Ok.
- 8 In the Object Explorer, right-click the Schemas folder and choose New Schema. Create a new schema. The new schema name must match the name of the previously created user with system admin rights.
- 9 Assign the system administrator as the owner of the schema.
- 10 Click OK.

Setting Up Users in SQL Server

The following procedure should be performed on the database server machine for each user who needs to connect to the SQL Server database.

SQL Server 2000

1 Click **Start>Programs>Microsoft SQL Server>Enterprise Manager**. The SQL Server Enterprise Manager Window appears:

SQL Server Enterprise Manager - [Co	onsole Root\Microsoft SQL	Servers\SQL Server Grou	p\SQL2000BOX (Win	dows NT)]	
			* *		<u> </u>
		S 7F X W Q Q	L -0		
Image: Second Secon	Control Contro	2 * (*) 2 0 0 6 Rens Management Replication	Security Su Security Su	pport Meta Data Services	
	1				

2 In the left pane, navigate to the database to which you would like to add users.

3 Click **Tools>Wizards...** or click the **Run a Wizard** button on the toolbar. This is the button with an image of a wand. The Select Wizard dialog box appears:

Register Server W	izard		
Database			
- Create Databa	ise Wizard		
- Create Index V	Vizard		
- Create Login V	Vizard		
- Create Stored	Procedure V	Wizard	
Create View W	/izard		
🛛 Data Transform	ation Serv	vices	
Management			
Replication			

- 4 Click **Database** and select **Create Login Wizard**. Click **OK**. The Create Login Wizard dialog box appears.
- 5 Click Next.
- 6 Users that are set up in SQL Server can use either Windows NT or SQL Server Authentication.
- 7 To use SQL Server Authentication, select the SQL Server login information that was assigned to me by the system administrator (SQL Server Authentication) option and click Next. The Authentication with SQL Server panel appears.
 - a In the Login ID field, type the SQL Server login ID for the user that will be used to access the SQL Server. This ID is used to authenticate the user login credentials to the SQL Server database.
 - **b** In the **Password** field, type the password for the user ID entered in the Login ID field. Then retype the user's password in the **Confirm Password** field. Click **Next**.
 - c Click Next. The Grant Access to Security Roles panel appears.
 - d Click Next. The Grant Access to Databases panel appears.
 - e Click the appropriate check boxes to select the databases to which the user's account is to have access. Click **Next**.
 - f Click Finish. Go to step 9.
- 8 To use Windows NT Authentication, select the **Windows account** information I use to logon to my computer (Windows authentica-

tion) option and click Next. The Authentication With Windows panel appears.

- a Type the domain name and user ID or group name for the user or group you would like to add
- a Select the Grant access to the server option. Click Next.
- b Click Next again.
- c Select the check box for the database(s) to which the users will have access. Click **Next**.
- d Click Finish.
- 9 In the left pane, navigate to the database to which you added users with the Create Login Wizard. Click **Users**.
- 10 In the right pane, right-click the user ID or group you added with the wizard in the steps above and choose Properties. The Database User Properties dialog box appears.
- 11 Select the db_datareader and db_datawriter check boxes. Click OK.

SQL Server 2005

- 1 In the Object Explorer of SQL Server Management Studio, navigate to the Security folder and expand it. Right-click the **Logins** icon and choose **New Login**. The New-Login window appears.
- 2 Select the **General** page. Enter a user ID in the **Login name** field. Select either **Windows Authentication** or **SQL Server Authentica-tion**.
- 3 Select the default database from the **Default database** drop-down list.
- 4 Select the **User Mapping** page.
- 5 In the Map column, select the check box for the database that your login can access. By default, the login name appears in the User column. Leave this value.
- 6 In the **Default Schema** column, enter the default schema. For use with TestPartner, the default schema must match the schema of the previously created user with system admin rights.
- 7 In the Database role membership for list, leave the default option public checked. Select the db_datareader and db_datawriter check boxes.
- 8 Click OK.

- 9 Next, you must add the newly created user to the default schema. In the Object Explorer of SQL Server Management Studio, navigate to the Schemas folder, right-click the default schema (which was previously created to match the name of user with system admin rights). Select Schema Properties.
- **10** Select the **Permissions** page.
- 11 Click the Add button and select a user.
- 12 Click OK.

Creating a New Data Source

You must create a new data source to SQL Server from the workstation that has TestPartner installed. See "Creating a Data Source Name for a SQL Server Database" on page 49 for detailed instructions.

Preparing the SQL Server TestPartner Database

You must prepare your new SQL Server database for use with TestPartner. This section describes how to use the Database Maintenance utility to populate the database with TestPartner tables.

Required: SQL Server Authentication Mode must be set to: SQL Server and Windows (Mixed Mode) to allow connection to the SQL Server database through the Database Maintenance utility. This setting can be changed after any database maintenance tasks are performed.

- 1 Start TestPartner's Database Maintenance utility.
- 2 Click File>New Database>SQL Server. The SQL Server Data Source Connection dialog box appears.

QL Server Data S	purce Connection
SQL Server Data S	ource
	Browse
Owner	Enter the user details to connect to SQL Server.
Password:	
Description:	Enter a brief description for the DSN.
	Create

- **3** Type the name of the new SQL Server data source or click the **Browse** button and select a data source name from the Select ODBC Data Source dialog box. Type the name of the database Owner, the SQL Server User ID, and Password. Click the **Create** button.
- **Note:** A table called TP_DSNSCHEMA must exist in the dbo schema. If the table does not already exist in the dbo schema, a System Login dialog box appears, requiring the password for dbo. Type the password, and click **OK**. The table is created.

Only one schema can be associated with a DSN name (ODBC connection). If the chosen DSN name is already associated with a schema, a Database Maintenance dialog box appears:

The DSN I	TP-SQLSERVE	[R] is associated	with schema [Si	COTTL
Unless un	alias the DSN	the existing asso	ciation will be re	maced
Unless you	alas me Don,	, the existing asso	CIGUUN WILDE IS	phaceu.

4 Click the **Replace** button to change the association of the DSN name from its current schema to the new schema (users will no longer be able to access TestPartner tables in the old schema), or click the **Alias**

button to create an alias for the DSN name, a DSN Alias Creation dialog box appears:

DSN Alias Creation	<u>?</u> ×
Enter an alias for DSN (TP-SQLSERVER), This aliased DSN will be associated with schema [dbo].	
DSN Alias:	
OK	

5 Type an alias name for the DSN, this alias will be associated with the current schema. Click **OK**.

The Data Source Creation Status dialog box appears and displays the progress of the database creation.

Log on to TestPartner

To test your setup, start TestPartner and log on. See "Logging On and Starting TestPartner" on page 58 for instructions.

Setting Up an Oracle Database with TestPartner

This section describes how to set up an Oracle database with TestPartner.

Note: The following instructions assume familiarity with the Oracle database management system. Compuware recommends that a database administrator or a person with general knowledge of database administration performs database setup and configuration.

Oracle Database Connection Requirements

Each client machine requires a data source to connect to the database. As a result, connecting to an Oracle database for TestPartner has the following requirements:

- Each machine running TestPartner must be able to access the machine where the database resides.
- TestPartner must be installed on all machines that access the database.
- The appropriate database client connectivity software must be installed on any machine that runs TestPartner.
- The database connection must be configured for use with TestPartner. See "Configuring a TestPartner Database Connection" on page 59.

Selecting an Authentication Method

TestPartner supports the use of either Oracle OS authentication (Windows NT) or Oracle database authentication. There are additional installation procedures required when using Oracle OS authentication. For a complete list of installation procedures required when using either authentication method, refer to the appropriate subsection below.

Oracle OS Authentication

- 1 "Creating a New Oracle Database" on page 30
- 2 "Setting Up Oracle OS Authentication" on page 30
- **3** "Setting Up the Oracle Client" on page 31
- 4 "Preparing the Oracle Database for Client Connectivity" on page 32
- **5** "Setting Up Users for TestPartner in Oracle" on page 35.
- 6 "Creating the Password Authenticated Schema" on page 39
- 7 "Creating a New Data Source" on page 39

8 "Creating the Oracle TestPartner Database" on page 39

Oracle Database Authentication

- 1 "Creating a New Oracle Database" on page 30
- 2 "Setting Up the Oracle Client" on page 31
- **3** "Setting Up Users for TestPartner in Oracle" on page 35.
- 4 "Creating the Password Authenticated Schema" on page 39
- 5 "Creating a New Data Source" on page 39
- 6 "Creating the Oracle TestPartner Database" on page 39

Creating a New Oracle Database

Create a new Oracle database with character set UTF8 (and National Character Set UTF8 for Oracle 8i). Consult your Oracle documentation if creating an Oracle database is unfamiliar.

Setting Up Oracle OS Authentication

Note: This procedure is only necessary if using Oracle OS authentication. If using Oracle database authentication, see "Setting Up the Oracle Client" on page 31.

On the server where the database is located, perform the following steps:

- 1 Locate the Oracle Initialization file in the directory where Oracle was installed.
- **Note:** In Oracle versions below 9i, this file is called INIT.ORA. However, in Oracle 9i and later, initialization parameters can be set differently, please refer to Oracle documentation for details on initialization.
- 2 In the Oracle Initialization file, set values for the following parameters:
- **Note:** If any of these parameters and values do not exist, add them.

```
remote_login_passwordfile = none
remote_os_authent = true
os_authent_prefix = ""
```

3 Locate the SQLNET.ORA file in the directory where Oracle was installed. The file should be located in ORACLE_HOME\Network\Admin directory under the main Oracle installation directory where ORACLE_HOME is the name assigned for the Oracle home during installation. 4 Open SQLNET.ORA and set the value of the following parameter to (NTS):

Note: If this parameter does not exist, add it.

sqlnet.authentication_services = (NTS)

Required: Ensure this parameter is not commented out with a # at the beginning of the line.

- 5 Click Start>Run. The Run dialog box appears.
- 6 In the **Open** field, type regedit. Click **OK**. The Registry Editor dialog box appears.
- 7 In the path HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\HOMEn (where n is the number associated with the Oracle installation), right-click HOMEn and choose New>String Value. A new string value appears in the right pane of the registry editor.
- 8 Replace the default name, New Value #1, with OSAUTH_PREFIX_DOMAIN.
- **9** Double-click the string value you just created. The Edit String dialog box appears:

Edit String		? ×
Value <u>n</u> ame:		
OSAUTH_PREFIX_DOMAIN		
⊻alue data:		
TRUE		
	ОК	Cancel
	 UN	Caricer

10 In the Value data field, type TRUE. Click **OK**.

Setting Up the Oracle Client

On the client machine from which you will connect, follow these steps:

- Locate the SQLNET.ORA file in the directory where Oracle was installed. The file should be located in ORACLE_HOME\Network\Admin directory under the main Oracle installation directory where ORACLE_HOME is the name assigned for the Oracle home during installation.
- 2 Open SQLNET.ORA and set the value of the sqlnet.authentication_services as follows:
- **Note:** If this parameter does not exist, add it. sqlnet.authentication services = (NTS)

Required: Ensure this parameter is not commented out with a # at the beginning of the line.

- 3 Open the TNSNAMES.ORA file in the directory where Oracle was installed. This file should be located in ORACLE_HOME\Network\Admin directory.
- 4 Copy the server's database entry to the TNSNAMES.ORA file on the client machine. For example:

```
ORACLE_SID.DOMAIN.COM=
(DESCRIPTION=
(ADDRESS_LIST=
(ADDRESS=(PROTOCOL=TCP)(HOST=SERVERNAME)(PORT=1521))
)
(CONNECT_DATA=
(SERVICE_NAME=ORACLE_SID)
)
)
```

Preparing the Oracle Database for Client Connectivity

Note: This procedure is only necessary if you are using Oracle OS authentication. If you are using Oracle database authentication, see "Setting Up Users for TestPartner in Oracle" on page 35.

Use the following procedure to prepare an Oracle database for client connectivity.

- **Note:** This procedure is only necessary if you are using an Oracle client to set up the TestPartner database.
- **Required: You must be a member of the** ORA_DBA group and have SYSDBA privileges to perform these steps.

You must create users within a Windows NT domain. Refer to your Microsoft Windows documentation for more information about using a Windows domain.

These procedures are for the Windows 2000 operating system. To set up users in another operating system, consult your Windows documentation.

- 1 On the machine that has User Manager for Domains, click **Start>Set**tings>Control Panel.
- 2 Select Administrative Tools.

3 Select **Computer Management**. The Computer Management utility window appears:



- 4 In the tree view, click Local Users and Groups.
- 5 Click Groups.

If Oracle is installed, you should see a group named **ORA_DBA**. If not, add it using the following procedure:

- Creating the **1** In the tree view of the Computer Management utility, right click **Groups** and choose **New Group**. The New Group dialog box appears.
 - 2 In the Group Name field, type ORA_DBA.
 - 3 Click Create.
 - 4 Click Close.

1

You are now ready to create server access for users.

Creating Server Access For Users To create individual user accounts:

In the tree view of the Computer Management utility, click Local Users and Groups.

2 Click Groups.

📮 Computer Management			- D ×
Action ⊻iew	× 🗗 🖪 🛿 🕄		
Tree	Name	Description	
Computer Management (Local) System Tools System Tools System Information System Information Shared Folders Device Manager Coal Users and Alerts Storage Storage Storage Removable Storage Services and Applications	Administrators Ackup Operators Course Cours	Administrators have complete and u Backup Operators can override secu Guests have the same access as me Power Users possess most administr Supports file replication in a domain Users are prevented from making ac VMware User Group	

3 In the right pane, double click **ORA_DBA**. The ORA_DBA Properties dialog box appears:

ORA_DBA Properties		? ×
General		
ORA_DBA		
D <u>e</u> scription:		
<u>M</u> embers:		
I		
Add		
Close	Cancel	Apply

4 Click the Add button. The Select Users or Groups dialog box appears:

Select Users or Groups	? ×
Look in: 📕 FH0002RED	T
Name	In Folder
Everyone	
AUCHICATED USERS	
BATCH	
CREATOR GROUP	
	×
Add Check Names	
mydomain\jeff	
1	
	OK Cancel

5 In the **Name** field, browse for the user's ID, select it, and click **Add**. Or, click in the text area under the **Add** button and type:

domain name\user ID Where:

domain name:	The name of the domain where the user is located.
user ID:	The network ID of the user you want to give access to.

- 6 Click **OK** to save the user information and return to the ORA_DBA Properties dialog box.
- **7** Repeat step 4–6 to create any additional user accounts.
- 8 When you are finished, click **OK** in the Users Properties dialog box to return to the Computer Management utility.

Setting Up Users for TestPartner in Oracle

Note: This procedure is necessary when using either Oracle OS authentication or Oracle database authentication. Separate instructions are provided for each type of authentication. For Oracle OS authentication, see the subsection immediately after this note. For Oracle database authentication see the subsection, "Oracle Database Authentication" on page 37.

Oracle OS Authentication

Users must be created in such a way that Oracle knows they are authenticated via a DOMAIN controller.

Required: When setting up users for TestPartner in Oracle, a schema must be also created to house the actual tables in addition to the remotely authenticated users. The schema is not domain authenticated, but is password authenticated. See "Creating the Password Authenticated Schema" on page 39 for instructions.

Users must be created within a Windows NT domain. Refer to your Microsoft Windows documentation for more information about using a Windows domain.

Use SQL*Plus to create users. If you are not familiar with SQL*Plus, consult your Oracle documentation.

To specify users that can access the Oracle database, follow these steps:

- 1 Click Start>Programs>Oracle>Database Administration>SQL Plus.
- **2** Log on as SYSTEM and connect as SYSDBA.
- **3** Type commands to create each user as "DOMAIN\USERNAME" IDEN-TIFIED EXTERNALLY, and grant connection rights for each user as "DOMAIN\USERNAME". Type DOMAIN\USERNAME in uppercase and between double quotation marks, where DOMAIN\USERNAME is each user's domain and user name. For example:
 - SQL> create user "NT-DOMAIN\JEFF" IDENTIFIED EXTERNALLY;
 - SQL> grant connect, resource to "NT-DOMAIN\JEFF";
- **Note:** SELECT_CATALOG_ROLE must also be granted to the user. For example:
 - SQL> grant select_catalog_role to "NT-DOMAIN\JEFF";

Required: Microsoft operating systems return the DOMAIN\USERNAME when the user is queried. If this does not match what is defined in the database, NT authentication will fail with ORA-1017.

4 Grant rights to access the V_\$SESSION view to individual users or to all users as a public group.

Required: All TestPartner users will need rights to access the V_\$SESSION view. To grant these rights, you must be logged on as a user with administrative rights, e.g., SYSDBA.

When connecting remotely, use the server name or its alias from the TNSNAMES.ORA file with the password.

If typing the command to remotely grant access for individual users, type DOMAIN\USERNAME in uppercase and between double quotation marks, where DOMAIN\USERNAME is the user name within the domain of each user.

The following shows examples of the commands that are typed for remotely granting access for individual users, and remotely granting access for all users.

Remotely Granting Access for Individual Users

Remotely Granting Access for All Users (PUBLIC) SQL>CONNECT SYSTEM/password@ORACLE_SID.DOMAIN.COM AS SYSDBA; SQL>GRANT SELECT ON "V_\$SESSION" TO "NT-DOMAIN\JEFF";

SQL>CONNECT SYSTEM/password@ORACLE_SID.DOMAIN.COM AS SYSDBA; SQL>GRANT SELECT ON "V_\$SESSION" TO PUBLIC;

- **Note:** If you receive any errors that indicate you cannot grant these rights, or that the V_\$SESSION table cannot be found, you are not logged on appropriately.
- 5 Test that Windows NT authentication is set up correctly by connecting to the database via SQL*Plus. Type a "/" for the user name. Leave the Password field blank, and enter the host string appropriately. Click OK. If you are able to log on, Windows NT authentication is working properly.
- Note: In the future, you do not need to create another Oracle TestPartner database to add users. You do not have to perform the procedures "Creating a New Data Source" and "Creating the Oracle TestPartner Database".

Oracle Database Authentication

Required: When setting up users for TestPartner in Oracle, a schema must be also created to house the actual tables in addition to the remotely authenticated users. The schema is password authenticated. See "Creating the Password Authenticated Schema" on page 39 for instructions.

Use SQL*Plus to create users. If you are not familiar with SQL*Plus, consult your Oracle documentation.

To specify users that can access the Oracle database, follow these steps:

- 1 Click Start>Programs>Oracle>Database Administration>SQL Plus.
- **2** Log on as SYSTEM and connect as SYSDBA.

3 Type commands to create each user as "USERNAME" IDENTIFIED BY "ORACLEPASSWORD", and grant connection rights for each user as "USERNAME". Type USERNAME in uppercase and between double quotation marks, where DOMAIN\USERNAME is each user's user name. For example:

SQL> create user "JEFF" IDENTIFIED BY "ORACLEPASSWORD";

SQL> grant connect, resource to "JEFF";

Note: SELECT_CATALOG_ROLE must also be granted to the user. For example:

SQL> grant select_catalog_role to "JEFF";

4 Grant rights to access the V_\$SESSION view to individual users or to all users as a public group.

Required: All TestPartner users will need rights to access the V_\$SESSION view. To grant these rights, you must be logged on as a user with administrative rights, e.g., SYSDBA.

When connecting remotely, use the server name or its alias from the TNSNAMES.ORA file with the password.

If typing the command to remotely grant access for individual users, type USERNAME in uppercase and between double quotation marks, where USERNAME is the user name within the domain of each user.

The following shows examples of the commands that are typed for remotely granting access for individual users, and remotely granting access for all users.

Remotely Granting Access for Individual Users

Remotely Granting Access for All Users (PUBLIC) SQL>CONNECT SYSTEM/password@ORACLE_SID.DOMAIN.COM AS SYSDBA; SQL>GRANT SELECT ON "V_\$SESSION" TO "JEFF";

SQL>CONNECT SYSTEM/password@ORACLE_SID.DOMAIN.COM AS SYSDBA; SQL>GRANT SELECT ON "V_\$SESSION" TO PUBLIC;

Note: If you receive any errors that indicate you cannot grant these rights, or that the V_\$SESSION table cannot be found, you are not logged on appropriately.

In the future, you do not need to create another Oracle TestPartner database to add users. You do not have to perform the procedures "Creating a New Data Source" and "Creating the Oracle TestPartner Database".

Creating the Password Authenticated Schema

Perform the following steps to set up the password authenticated schema into which the TestPartner tables are stored.

- **Note:** The password authenticated schema should not be more than five characters in length because of Oracle character limitations in SQL series.
- 1 If SQL*Plus is not started, start it by click **Start>Programs>Ora**cle>Database Administration>SQL Plus.
- 2 If you are not properly logged on, log on as SYSTEM and connect as SYSDBA.
- 3 Type commands to create each user as "USERNAME" IDENTIFIED AS "ORACLEPASSWORD", and grant connection rights for each user as "USERNAME". Type USERNAME in uppercase and between double quotation marks, where USERNAME is each user's user name. For example:

SQL> create user "TOM" IDENTIFIED AS "ORACLEPASSWORD"; SQL> grant connect. resource to "TOM";

Creating a New Data Source

You must create a new data source to Oracle. See "Creating a Data Source Name for an Oracle Database" on page 52 for detailed instructions.

Creating the Oracle TestPartner Database

- 1 Start the Database Maintenance utility.
- 2 Click File>New Database>Oracle. The Oracle Data Source Connection dialog box appears.

Oracle Data Source Connection	×
Oracle Data Source Name :	
	Browse
Schema User ID: Password:	Enter the user details to connect to Oracle.
Description:	Enter a brief description for the DSN.
	Create Cancel

- **3** Type the name of the new Oracle data source or click the **Browse** button and select a data source name from the Select ODBC Data Source dialog box. Type a User ID, Password, and a brief description of the DSN (the Schema field is filled in automatically with the same information as the User ID). Click the **Create** button.
- **Note:** A table called TP_DSNSCHEMA must exist in the SYSTEM schema. If the table does not already exist in the SYSTEM schema, a System Login dialog box appears, requiring the password for SYSTEM. Type the password, and click **OK**. The table is created.

Only one schema can be associated with a particular DSN name (ODBC connection). If the chosen DSN name is already associated with a schema, a Database Maintenance dialog box appears:

The DSN [TPORACLE81	7] is associated	with schema	SCOTT].
Unless you	alias the DSN.	the existing ass	ciation will be	replaced.

Click the **Replace** button to change the association of the DSN name from its current schema to the new schema (users will no longer be able to access TestPartner tables in the old schema), or click the **Alias** button to create an alias for the DSN name, a DSN Alias Creation dialog box appears:

DSN Alias Creation	<u>?</u> ×
Enter an alias for DSN [TPOPACLE817]. This aliased DSN will be associated with schema [dbo].	
DSN Alias:	
OK	

Type an alias name for the DSN, this alias will be associated with the current schema. Click **OK**.

The Data Source Creation Status dialog box appears and displays the progress of the database creation.

Log on to TestPartner

To test your setup, start TestPartner and log on. See "Logging On and Starting TestPartner" on page 58 for instructions.

Setting Up SQL Server or Oracle for TestPartner Without a Domain

Note: This procedure only applies when using Windows NT authentication.

Compuware strongly recommends that you use authentication within a domain when setting up an Oracle or SQL Server database with TestPartner. However, if you are not on a domain, it is still possible to set up these databases.

Required: To begin, you **must** create a user on **both** the client and the server computers.

To create a user, follow these procedures:

- 1 Click Start>Settings>Control Panel.
- 2 Double-click **Users and Passwords**. The Users and Passwords dialog box appears:

Isers and Passwords	? ×		
Users Advanced			
Use the list below to grant or deny users access to your computer, and to change passwords and other settings. Users must gnter a user name and password to use this computer. Users for this computer:			
User Name	Group		
🛃vmware_user	vmware		
4 Administrator	Administrators		
🖅 Guest	Guests		
S PFHJHWO	ORA_DBA; Administrators		
J □	<u>R</u> emove Properties		
To change the password for Administrator, click Set Password. Set Password			
	OK Cancel Apply		

3 On the Users tab, click Add. The Add New User dialog box appears:

Add New User	×
X	Enter the basic information for the new user. USER1 Euli name: Description: To continue, click Next.
	< Back Next > Cancel

- **4** Type a valid user name in the **User name** field. Click the **Next** button.
- 5 Type a valid password in both the **Password** and **Confirm** password fields. Click the **Next** button.
- 6 Select the level of access for the user and click the **Finish** button.
- 7 On the Users and Passwords dialog box, click **OK**.
- 8 Repeat these steps on each client machine using the username and password.

Setting Up SQL Server for TestPartner without a Domain

To set up SQL Server for TestPartner without a domain, follow these steps:

- 1 On the server machine, click **Start>Settings>Control Panel**.
- 2 Select Administrative Tools.

3 Select **Computer Management**. The Computer Management utility window appears:



- 4 In the tree view, click Local Users and Groups.
- 5 Click Groups.



6 In the right pane, double click **Users**. The Users Properties dialog box appears:



7 Click the Add button. The Select Users or Groups dialog box appears.

🗄 Select Users or Groups	<u>?</u>	×
Look in: EFH0002RED		•
Name	In Folder	-
Everyone Authenticated Users		
ANONYMOUS LOGON		
CREATOR OWNER		
CREATOR GROUP		•
Add Check Names		
USER1		
	OK Cancel	

8 In the Name field, browse for the user's ID, select it, and click Add. Or, click in the text area under the Add button and type: [user ID],

where [user ID] is the user you want to give access to.

- 9 Click **OK** to save the user information and return to the Users Properties dialog box.
- **10** Repeat step 7–9 to create any additional user accounts.
- 11 When you are finished, click **OK** in the Users Properties dialog box to return to the Computer Management utility.
- **12** Close the Computer Management utility.

Setting Up Oracle for TestPartner without a Domain

To set up Oracle for TestPartner without a domain, follow the procedures for "Creating Server Access For Users" on page 33 with the following exceptions:

Substitute the user name you created under, "Setting Up SQL Server or Oracle for TestPartner Without a Domain" on page 42 as shown in step 1 below:

Belect Users or Groups	:			? ×
Look in: EH0002RED				•
Name Everyone Authenticated Users ANONYMOUS LOGON		In Folder		
BATCH CREATOR OWNER CREATOR GROUP				•
Add Check 1	Vames			
USER1				
			ОК	Cancel

Figure 2-1. Select Users or Groups Dialog Box

1 Click in the text area under the Add button (Figure 2-1) and type [user name] instead of [domain name]\[user ID] or [domain name]\[group name].

In addition, when using SQL*Plus to create users see step 3 on page 36, substitute *COMPUTERNAME\USERNAME* for *DOMAIN\USERNAME* as shown below:

2	Create the user as	"[COMPUTERNAME]\USERNAME"	IDENTIFIED	EXTER-
	NALLY, entering the	e COMPUTERNAME\USERNAME	in uppercase	e and
	between "" like the	following example:		

SQL> create user "FH0002RED\USER1" IDENTIFIED EXTERNALLY; SQL> grant connect, resource to "FH0002RED\USER1";

- 3 Click Start>Programs>Compuware>TestPartner>Utilities>Database Maintenance.
- 4 Grant rights to access the V_\$SESSION view to individual users or to all users as a public group.

Open Oracle's SQL*Plus Worksheet. Login as SYSTEM and connect as SYSDBA. You can grant the access rights by entering the commands shown below.

Required: All TestPartner users will need rights to access the V_\$SESSION view. To grant these rights, you must be logged on as a user with administrative rights, e.g., SYSDBA.

Granting Access for	SQL>CONNECT SYSTEM/password AS SYSDBA;
Individual Users	SQL>GRANT SELECT ON "V_\$SESSION" TO "COMPUTER NAME\JEFF";
Granting Access for All	SQL>CONNECT SYSTEM/password AS SYSDBA;
Users (PUBLIC)	SQL>GRANT SELECT ON "V_\$SESSION" TO PUBLIC;
	Note: If you receive any errors that indicate you cannot grant these rights, or that the V_\$SESSION table cannot be found, you are not logged

on appropriately.

Creating a Data Source Name

On each computer that is connecting to the TestPartner SQL Server, MSDE, Access or Oracle database, you must create a data source name (DSN) using the ODBC utility.

The ODBC utility can be accessed from the Windows Control Panel.

Required: These procedures are for the Windows 2000 operating system. To set up users in another operating system, consult your Windows documentation.

Creating a Data Source Name for an Access Database

On each client computer connecting to an Access database, perform the following steps to set up a DSN:

- Click Start>Settings>Control Panel>Administrative Tools>Data Sources (ODBC). The ODBC Data Source Administrator dialog box appears.
- 2 Click the **System DSN** tab, then click the **Add** button. The Create New Data Source dialog box appears:

	Name Driver da Microsoft para arquivos texto (".txt; ".csv) Driver do Microsoft Access (".ndb1) Driver do Microsoft Bccel(".xls) Driver do Microsoft Paradox (".db1) Driver gara o Microsoft Visual FoxPro Microsoft Access Driver (".ndb1) Microsoft Access Driver (".ndb1) Microsoft dBase Diver (".db1)	 ↓ ↓
--	--	---

This dialog box lists the available ODBC drivers.

- **3** From the list of drivers, select the Microsoft Access Driver and click the **Finish** button. The ODBC Microsoft Access Setup dialog box appears.
- 4 In the **Data Source Name** field, type the data source name. Since this name appears as the database name in TestPartner's logon screen, it is recommended you enter a logical name in this field.

- 5 In the Description field, type a description for the data source. For example, Connection to TestPartner Access database.
- 6 Click the **Select** button and browse for your Access database.
- 7 On the ODBC Microsoft Access Setup dialog box, click OK.
- 8 Click **OK** on the ODBC Administrator dialog box.

Creating a Data Source Name for a SQL Server Database

On each client computer, perform the following steps to set up a DSN:

- 1 Click Start>Settings>Control Panel>Administrative Tools>Data Sources (ODBC). The ODBC Data Source Administrator dialog box appears.
- 2 Click the **System DSN** tab, then click the **Add** button. The Create New Data Source dialog box appears:

Create New Data Source	Select a driver for which you want to set up a data source. Name V Microsoft ODBC for Oracle 2. Microsoft Paradox Driver (".db) 4. Microsoft Paradox Treiber (".db) 4. Microsoft Text Driver (".tbt," csv) 4. Microsoft Visual FoxPro-Treiber 6. Dracle DDBC Driver 8. SQL Gerver 21	×
	< Back Finish Cancel	

This dialog box lists the available ODBC drivers.

- **3** From the list of drivers, select **SQL Server** and click the **Finish** button. The Create a New Data Source to SQL Server dialog box appears.
- 4 In the **Name** field, enter the data source name. Since this name appears as the database name in TestPartner's logon screen, it is recommended you enter a logical name in this field.
- 5 In the Description field, enter a description for the data source. For example, Connection to TestPartner SQL database.
- 6 In the **Server** field, enter the server name or select it from the dropdown list. If you do not know the server name, consult your database administrator.

- 7 Click the **Next** button. The Create a New Data Source to SQL Server dialog box appears.
- 8 Do one of the following:
 - ◇ If user(s) using the DSN to access the SQL Server database are connecting with native authentication, select the With SQL Server authentication using a login ID and password entered by the user option.

Make sure the Connect to SQL Server to obtain the default settings for the additional configuration options check box is selected.

Type the users native SQL Server logon credentials in the Login ID and Password fields.

or

- If user(s) using the DSN to access the SQL Server database are connecting with non-native credentials, select the With Windows
 NT authentication using the network login ID option.
- **9** Click the **Client Configuration** button. The Add Network Library Configuration dialog box appears:

Add Network Library Configurat	ion	×
🧕 Server <u>a</u> lias:	SQL2000Box	
Network libraries	Connection parameters	
O Named Pipes	Server name:	SQL2000Box
• ICP/IP		
C Multiprotocol	Dynamically determine	port
C NWLink IPX/SPX	Port number:	1433
C AppleTal <u>k</u>	1	,
○ Banyan <u>V</u> INES		
O V <u>I</u> A		
◯ <u>O</u> ther		
		OK Cancel Help

Ensure that the appropriate network library protocol is selected. If necessary, consult your network administrator to verify the correct network protocol.

- **10** Click **OK** to exit. You are returned to the Create a New Data Source to SQL Server dialog box.
- 11 Click Next.
- **12** Select the **Change the default database to** check box, then select your TestPartner database name from the drop-down list.

- **13** Accept all the other entries and click the **Next** button until the last panel in the wizard appears.
- 14 Accept the defaults and click the **Finish** button. The ODBC Microsoft SQL Server Setup window appears.

Testing the Connection

Once the connection to the database is established, use the following procedure to test the connection:

1 In the ODBC Microsoft SQL Server Setup window, click the **Test Data Source** button. You should see the following:

SQL Server ODBC Data Source Test	×
Test Results	
Microsoft SQL Server ODBC Driver Version 03.80.0380	<u> </u>
Running connectivity tests	
Attempting connection Connection established Venifying option settings Disconnecting from server	
TESTS COMPLETED SUCCESSFULLY!	
	-
ОК	

Click OK. The ODBC Microsoft SQL Server Setup window displays.Note: If your test results fail, you need to check your setup steps again.

- 3 Click **OK**. The ODBC Data Source Administrator window displays. The newly created data source appears in the System Data Sources list.
- 4 Click **OK** to close the ODBC utility.

Creating a Data Source Name for an MSDE Database

Follow the same steps under "Creating a Data Source Name for a SQL Server Database" on page 49, with the following exceptions:

• In step 3, select (local) for the server name.

Figure 2-2. Create a New Data Source to SQL Server

Create a New Data Source to SQL Server 🛛 🔀		
Select a driver to	This wizard will help you create an ODBC data source that you can use to connect to SQL Server.	
soft Acces	What name do you want to use to refer to the data source?	
on on one soft Excel	Name: MyMSDE	
Arosent Four- Bound Oblight	How do you want to describe the data source? Description: Which SQL Server do you want to connect to?	
	Server: (local)	
	Finish <u>N</u> ext > Cancel Help	

In step 6, a list of databases will be available for selection. However, only the default databases from the MSDE installation will appear in the drop-down list. If you wish to create your own database for MSDE, you must use a front-end interface such as Enterprise Manager.

Creating a Data Source Name for an Oracle Database

On each client machine connecting to an Oracle database, perform the following steps to set up a DSN:

 Click Start>Settings>Control Panel>Administrative Tools>Data Sources (ODBC). The ODBC Data Source Administrator dialog box appears. 2 Click the **System DSN** tab, then click the **Add** button. The Create New Data Source dialog box appears:

Select a driver for which you want to set up a data Name Microsoft ODBC for Oracle Microsoft Paradox Treiber (*.db.) Microsoft Text Driver (*.tkt; *.csv) Microsoft Text-Treiber (*.tkt; *.csv) Microsoft Visual FoxPro-Treiber Microsoft Visual FoxPro-Treiber Oracle in OraHome90 SQL Server	ata source.
< <u>B</u> ack Finish	Cancel

- **3** From the list of drivers, select the **Oracle in OraHome90** (not the Microsoft ODBC for Oracle driver) and click the **Finish** button.
- **Note:** For Oracle 8.1.7, select the **Oracle ODBC Driver** (not the Microsoft ODBC for Oracle driver) and click the **Finish** button.

The Oracle ODBC Driver Configuration dialog box appears. The following shows this dialog box for Oracle 9.0.1.

Oracle ODBC Driver Configu	ration
Data Source Name Description TNS Service Name User ID	Oracle 9(Cancel QATEAM9
Application Oracle Wor Enable Result Sets Enable Closing Cursors Batch Autocommit Mode	karounds SQLServer Migration Translation Options Enable Query Timeout Read-Only Connection Enable Thread Safety SQLGetData Extensions Commit only if all statements succeed

4 In the **Data Source Name** field, type the data source name. Since this name appears as the database name in TestPartner's logon screen, it is recommended you enter a logical name in this field.

- 5 In the Description field, type a description for the data source. For example, Connection to TestPartner Oracle database.
- 6 In the TNS Service Name field, select the service name for the database you would like to connect to in the format ORACLE_SID.DOMAIN, where ORACLE_SID is the Oracle SID you assigned to the database upon creation and domain is the domain that you are connecting to.
- 7 If you are creating a Data Source name for an Oracle 9.0.1database, test the connection. See "Testing the Connection" below. Otherwise, click OK.

Testing the Connection

- Oracle 9.0.1 1 On the Oracle ODBC Driver Configuration dialog box, click the *Test Connection* button.
 - **Note:** When using Oracle database authentication, type a username, and then a password. For Oracle OS authentication, do not specify a username.

A message box appears stating the connection was successful.

2 Click OK to close the message box.

The Data Source name creation is complete.

- Oracle 8.1.7 1 Click Start>Programs>Oracle>Network Administration>Oracle ODBC Test. The Oracle ODBC 32Bit Test - QUERY 1 dialog box appears.
 - 2 Click the **Connect** button. The Select Data Source dialog box appears:

Select Data Source				? X			
File Data Source Machine Data	Source						
Data Source Name DeluxeCD Excel Files - Word MS Access Database TPOracle TPSQL Visual FoxPro Database Visual FoxPro Tables	Type User User User System System User User	Description		×			
New A Machine Data Source is specific to this machine, and cannot be shared. "User" data sources are specific to a user on this machine. "System" data sources can be used by all users on this machine, or by a system-wide service. OK Cancel Help							

- **3** Click the **Machine Data Source** tab and select the appropriate DSN you created in the procedure described above.
- 4 Click **OK**. You are returned to the Oracle ODBC 32Bit Test QUERY 1 dialog box.
- 5 Click the **All Tables** button. If data appears in the **QUERY 1** section of the dialog box, your setup is complete.

Migrating TestPartner Objects from a Standard Character Set to UTF8 (for Unicode)

It is recommended that an Oracle DBA or someone familiar with Oracle export and import utilities perform the following task. For databases larger than 2GB, the DBA should select appropriate parameters based on the size of the database.

TestPartner only supports databases with a UTF8 (Unicode) character set. Access stores strings in TEXT and MEMO fields, which are already Unicode, so no schema changes are needed. SQL Server uses the NCHAR, NVARCHAR, and NTEXT data types to store Unicode characters, so no schema changes are needed. However, in Oracle 8.x, the NCHAR family of data types is not Unicode, which means that any Oracle database character set must be converted to UTF8.

Note: In Oracle 9.x, the NCHAR data type is redefined to UTF16, but because TestPartner must support both 8.1.7 and 9.x, the 8.1.7 migration approach will be used in both instances, eliminating the need for two separate schemas.

In order to support a TestPartner database previously created in an Oracle instance with a standard character set, the database must be exported from the standard database and imported into an Oracle instance created with a UTF8 character set.

Caution: If the schema from which the TestPartner objects are being exported contains more than just TestPartner objects, it is recommended (required if the schema is SYSTEM) that the TestPartner objects be transferred to a new schema using the TestPartner Database Maintenance Utility 05.02.00 (or older) Oracle-to-Oracle Copy Utility. The objects can be then exported from the new schema.

To perform the Migration:

 Start a command prompt and change the directory to \$ORACLE_HOME/bin. This directory should contain both exp.exe and imp.exe. Exp.exe will be used to perform the export, imp.exe will be used to perform the import.

Caution: Before exporting, be sure there is sufficient disk space. If there is not enough space, export will end in a write failure.

- **2** Type SET ORACLE_SID=MYSID into the command prompt, where MYSID is the SID of the Oracle instance, and press Enter.
- **3** Type EXP USERNAME/PASSWORD FILE=EXPORT.DMP LOG=EXPORT.LOG CONSISTENT=Y into the command prompt,

where USERNAME is the name of the schema to export and PASS-WORD is the password for the schema. Press **Enter** to start the export.

- Note: To perform the export without knowing the user's password, instead execute it as the system user. Type EXP SYSTEM/PASSWORD FILE=EXPORT.DMP LOG=EXPORT.LOG CONSISTENT=Y OWNER=USER1 into the command prompt, where PASSWORD in the system user password and USER1 is the owner of the schema to export.
- 4 Create a new Oracle database with character set UTF8 (and National Character Set UTF8 for Oracle 8i). Consult your Oracle documentation if creating an Oracle database is unfamiliar.
- 5 Create a new user in the new Oracle instance and grant them CON-NECT, RESOURCE, and SELECT_CATALOG_ROLES privileges.
- 6 Click Start>Programs>Compuware>TestPartner>Utilities>Database Maintenance from the Windows Start menu to start the TestPartner Database Maintenance Utility.
- 7 Click Tools>Create UTF8 Migration Database, the Oracle Data source Connection dialog displays.
- 8 Browse to the new Oracle instance with the UTF8 character set for the Oracle Data Source Name field and fill in the User ID and Password fields with the new schema (the Description field is optional). Click OK (steps identical to the steps in Creating the Oracle TestPartner Database may have to be followed in order to complete this step).
- **9** Return to the command prompt and type SET ORACLE_SID=MYSID, where MYSID is the SID of the UTF8 Oracle instance, and press Enter.
- 10 Type IMP USERNAME/PASSWORD FILE=EXPORT.DMP LOG=IMPORT.LOG IGNORE=Y into the command prompt, where USERNAME is the name of the schema to import into and PASS-WORD is the password for the schema. Press Enter to start the import.
- Note: To perform the import without knowing the user's password, instead execute it as the system user. Type IMP SYSTEM/PASSWORD FILE=EXPORT.DMP LOG=IMPORT.LOG FROMUSER=USER1 TOUSER=USER1 IGNORE=Y into the command prompt, where PASSWORD in the system user password and USER1 is the owner of the schema that was exported and FROMUSER and TOUSER are identical.

Logging On and Starting TestPartner

Use the following procedure to launch TestPartner and log on to TestPartner.

1 Start TestPartner by clicking the taskbar's **Start** button, then choose **Programs>Compuware>TestPartner>TestPartner**. The TestPartner splash screen appears, followed by the TestPartner Logon dialog box.

estPartner Log Te	stPartner™ from Compuware®
<u>U</u> ser Name:	Admin
<u>P</u> assword:	
<u>D</u> atabase:	TestPartner
	Configure OK Cancel

2 Type a user name in the User Name text box and type a password in the Password text box.

If using TestPartner for the first time, an administrative **User Name** and password may be required. The default user name is Admin and the default password is admin. Change this password after logon to prevent unauthorized access.

3 Select the TestPartner database to work with from the **Database** list. TestPartner's testing assets are stored in a test asset repository, or database, which offers centralized control of users and system access rights under password control.

For a database to appear in the Database list, you must first configure its database connection for use with TestPartner. To configure a database connection, click the Configure button on the TestPartner Logon dialog box. See "Configuring a TestPartner Database Connection" on page 59.

- **Note:** Clicking the **Cancel** button while logging on exits the TestPartner application. This is because TestPartner requires attaching to a database during startup.
- 4 Click OK to log on.

The TestPartner Welcome dialog box appears. This dialog box guides entry into the TestPartner desktop. It appears after the first successful logon.

Figure 2-3. TestPartner Welcome Dialog Box



TestPartner may be configured so that this screen does not appear during future access. See "Setting TestPartner Options" in TestPartner's online help.

- Display scripts using the Visual Navigator window or the VBA Code window, run the online tutorial, or peruse the online documentation from the TestPartner Welcome dialog box.
- Choose The Visual Navigator or The Code Window option to open TestPartner's desktop. The Select Project dialog box appears. Because TestPartner automatically opens a new script each time it starts, and prompts to select a project. See TestPartner's online help for information about administering users and adding projects.

Configuring a TestPartner Database Connection

Before you can use a database with TestPartner, you must configure its database connection. The configuration process consists of using the **Configure Data Source** dialog box to perform the following tasks:

Specify the database connection data required to initiate the database connection

- Verify the connection to the database
- Save the database connection data

All configured database connections appear in the **Database** list on the **TestPartner Logon** dialog box.

You can also use the **Configure Data Source** dialog box to view, edit, and remove any existing configured database connections.

Use the following procedure to configure a TestPartner database connection.

 Click the Configure button on the TestPartner Logon dialog box. The Configure Data Source dialog box appears.

Configure Data Source				×
- Data Source Information -				
Data Source Type:	C <u>A</u> ccess	O <u>O</u> racle	SQL Serve	er/ MSDE
Select Data Source:				-
	V Use as a	TestPartner data	base	
Description				
Description:	1			
Database Settings				
Data <u>b</u> ase:	TESTPARTN	ER		
O <u>w</u> ner:	TP_OWNER			
- Authentication				
C NT	<u>U</u> ser Name:	UserOne		_
• Database	Password:	****		_
		1		
		. 1		
Help		Apply 1	<u>V</u> alidate	Close

2 In the **Data Source Type** text box, select the type of data source.

- **3** From the **Select Data Source** list, select from the list of available DSNs.
- 4 Select the Use as a TestPartner database check box to add the selected DSN to the list of configured database connections that appear in the Database list on TestPartner Logon dialog box. You must select this check box when configuring a database connection for the first time.
- Note: For existing configured database connections, clearing the Use as a TestPartner database check box and clicking the Apply button removes the selected DSN from the Database list on the TestPartner Logon dialog box. TestPartner does not retain the associated database connection data.
- 5 Under Database Settings, specify the appropriate information for the selected DSN. The Database/Server and Owner/Schema fields function differently depending on the selected data source type.
 - a For Access, the **Database** text box is read-only and displays the location of the database file. This value is read directly from the ODBC DSN. The other **Database Settings** fields are not applicable for Access and are disabled.
 - **b** For Oracle, the **Server** text box field is read-only and displays only the database name. This value is read directly from the ODBC DSN. In the **Schema** text box, type the appropriate value.
 - **c** For SQL Server, the **Database** text box is modifiable and allows you to type the appropriate database name. In the **Owner** text box, type the appropriate value.
- 6 The Authentication field determines the method of authentication being used and only applies to Oracle or SQL Server/MSDE databases. You can choose to either use Windows NT authentication or authenticate using the database's native authentication capabilities. When selecting database authentication, you must provide the user name and password in the appropriate fields.
- 7 Click **Validate** to verify that you can connect to the database using the specified database connection data.
- 8 Click **Apply** to save the database connection data.
- 9 Click Close.

Chapter 3 Maintaining the Installation



- Accessing Maintenance Mode
- Modifying an Installation
- Repairing an Installation
- Removing a Product
- **Note:** TestPartner releases before 5.1.0 do not employ these maintenance procedures. If you need to modify or repair a TestPartner installation on releases before 5.1.0, you must uninstall it, then reinstall it. See the "Installing TestPartner" chapter for instructions on removing TestPartner from your machine.

Accessing Maintenance Mode

There are two methods for accessing a *QA*Center product's maintenance mode: from the *QA*Center CD or from the Windows Control Panel.

Required: Compuware recommends that you exit all non-essential Windows programs before running this setup program. Some Windows programs may interfere with the installation process.

Accessing Maintenance Mode from the Windows Control Panel

- Click the Windows Start button and choose Settings>Control Panel. The Control Panel window appears.
- 2 Click the Add/Remove Programs icon. The Add/Remove Programs dialog box appears. Select the QACenter product to maintain and click Change/Remove.

You are presented with the three maintenance mode options: modify, repair, and remove. For more information about these options, see the appropriate section in this chapter.

Accessing Maintenance Mode from the QACenter CD

- 1 In the CD-ROM drive, insert the QACenter CD containing the same version of the product that you have installed. The QACenter CD browser should automatically appear. If it does not, navigate to the root directory and run the setup.exe file.
- 2 Click Install QACenter Products.
- 3 Click **Install** *product name* (where *product name* is the name of the product that you want to maintain).

You are presented with three maintenance mode options: modify, repair, and remove.

Modifying an Installation

For products with optional components, you may want to add or remove a component.

Rather than uninstall and re-install the product, you can modify your installation.

Modifying Products With Optional Components

- 1 Access maintenance mode using one of the two methods described at the beginning of this chapter.
- 2 Select the **Modify** option. Click **Next**. The Select Components dialog box appears allowing you to add or remove components.
- 3 Click Next. Setup will add or remove the appropriate components.
- 4 After modifying, you may be prompted to restart your computer. If you are prompted to restart your computer, you may choose to restart it now (recommended) or to restart it later.
- 5 Click **Finish** to complete the maintenance.

Repairing an Installation

There may be times when you will need to repair a damaged *QA*Center product installation. This could be due to an inadvertent deletion or corruption of the program. To repair your *QA*Center product, follow these steps:

- 1 Access maintenance mode using one of the two methods described in "Accessing Maintenance Mode" at the beginning of this chapter.
- 2 Select the **Repair** option. Click **Next**. Setup will repair the specified *QA*Center product.
- 3 After repairing, you may be prompted to restart your computer. If you are prompted to restart your computer, you may choose to restart it now (recommended) or to restart it later.
- 4 Click **Finish** to complete the maintenance.

Removing a Product

If you want to remove a QACenter product from a PC, follow these steps:

- 1 Access maintenance mode using one of two methods described at the beginning of this chapter.
- 2 Select the **Remove** option. Click **Next**. The Confirm File Deletion dialog box appears.
- ³ Click **OK**. Setup will remove the specified *QA*Center product from your PC. If your product uses a database repository, you have the option to either save or delete it. Do not delete it if you need to retain the data in the database, as in the case of a product upgrade.
- 4 After uninstalling, you may be prompted to restart your computer. If you are prompted to restart your computer, you may choose to restart it now (recommended) or to restart it later.
- 5 Click **Finish** to complete the maintenance.

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