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INTRODUCTION

This guide is for individuals configuring a database for WinSPC and installing and configuring WinSPC on client stations. It consists of procedures to accomplish these tasks for the following database servers:

- Microsoft SQL Server 2005
- Microsoft SQL Server 2005 Express
- Microsoft SQL Server 2008
- Microsoft SQL Server 2008 Express
- Oracle 10g
- Oracle 11g

The four Microsoft SQL Server editions are all dealt with in **Chapter 1: Microsoft SQL Server 2005/2008**. A free download of Microsoft SQL Server 2005 Express as well as Microsoft SQL Server 2008 Express are available at: <u>www.winspc.com/downloads</u>. (To access this web page, enter the username and password included in the e-mail notifying you of the release of WinSPC Version 8.0. If you did not receive an e-mail notification, contact the DataNet Quality Systems Product Support Help Desk at 248-447-0140.)

WinSPC is certified to run in a traditional client/server environment and a Microsoft Terminal Services environment. The content in this guide applies to both except where marked by a *Terminal Services* marker, in which case the content applies uniquely to a Microsoft Terminal Services environment. The first appearance of the *Terminal Services* marker is to the right of the following paragraph.

When an implementation involves a Microsoft Terminal Services environment, WinSPC must be installed on the Microsoft Terminal Services server. If the implementation does not also involve a client/server environment, make the Microsoft Terminal Services



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server your first client. (*First client* simply refers to the first computer on which WinSPC is installed.) If the implementation also involves a client/server environment, it does not matter whether you make the Microsoft Terminal Services server the first client or an additional client. (*Additional client* means any computer on which WinSPC is installed other than the first client.) Electing to make the Microsoft Terminal Services server the first client means that the procedure for installing WinSPC on the Microsoft Terminal Services server is the procedure detailed in *Phase 2* of the chapter specific to the database server being used in your implementation. Electing to make the Microsoft Terminal Services server an additional client means that the procedure for installing WinSPC on the Microsoft Terminal Services server is the procedure detailed in **Chapter 5: Additional Client Installs and Configurations**.

For WinSPC's hardware requirements and recommended platforms, see **Appendix G: Hardware Requirements and Recommended Platforms**.

DataNet Quality Systems wants your installation and configuration to be a positive experience. Please do not hesitate to contact our Product Support Help Desk at (248)-447-0140 if you have questions concerning any of the information in this guide.

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CHAPTER 1: MICROSOFT SQL SERVER 2005/2008

WinSPC is certified to run on the following editions of Microsoft SQL Server: Microsoft SQL Server 2005 Express, Microsoft SQL Server 2005, Microsoft SQL Server 2008 Express and Microsoft SQL Server 2008. This chapter applies to each of these editions.

The procedure to configure any of these four editions for use with WinSPC is nearly identical to that of the other three. Consequently, where images of Microsoft SQL Server prompts are used for illustration, they are exclusively from Microsoft SQL Server 2005 Express. In addition, where the text of this chapter applies to all four editions equally, edition-specific information is omitted in favor of generic titles such as *Microsoft SQL Server* or *SQL Server Management Studio*.

ASSUMPTIONS

The instructions in this chapter are based on the following assumptions:

- Microsoft SQL Server is installed on your database server machine.
- An instance of Microsoft SQL Server has been created for WinSPC and is running. (This instance may be named or unnamed.)
- During the creation of this instance, the authentication mode selected was Mixed Mode (Windows Authentication and SQL Server Authentication). (WinSPC will not function if the default Windows Authentication Mode was accepted.)

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- The management and configuration tools appropriate to your edition of Microsoft SQL Server are installed on your database server machine. At a minimum, these include SQL Server Management Studio and SQL Server Configuration Manager.
- Other than the Mixed Mode of authentication and where an exception is clearly noted, the default values presented by your Microsoft SQL Server edition during the setup process were accepted without modification.
- Firewalls between your database server and the client stations to be used for WinSPC are configured to permit database traffic.



- For implementations employing a Microsoft Terminal Services environment, Microsoft Terminal Services is properly installed and configured on the server designated as your Microsoft Terminal Services server and the client stations that will run WinSPC on this server can successfully establish a Remote Desktop Protocol (RDP) connection to the server.
- The operating system of your database server machine is Windows Server 2003.
- The operating system of the client machines to be used for WinSPC is either Windows Vista Business or Windows XP Pro. (Images of client machines included in this guide are from Vista Business.)
- NOTE: If a default value was modified during the setup Microsoft SQL Server or an operating system is different from that stated here, adapt the instructions in this guide as needed to accommodate the modified value or differing operating system.

SERVER CONFIGURATION

Establish a Server Connection

- On the database server machine, launch SQL Server Management Studio, the default path for which is Start > All Programs > Microsoft SQL Server> SQL Server Management Studio.
- 2. In the **Connect to Server** prompt that appears:
 - a. At Server Type, accept the Database Engine default.
 - b. At Server name, if a name is not displayed or the name displayed is not the name of the machine on which the instance of Microsoft SQL Server to be used for WinSPC is created, select the correct name from the dropdown list. Depending on your edition of Microsoft SQL Server and the options selected during this edition's setup, the instance for your implementation may be *named* or *unnamed*. If your instance is named, the correct name for this Server name field consists of a combination of the server name and the instance is unnamed, the correct name for this Server name field consists of the server name alone (e.g. TESTSERVER\SQLEXPRESS). If your instance is unnamed, the correct name for this Server name field consists of the server name alone (e.g. TESTSERVER). In the event the server name displayed is incorrect and the dropdown list does not contain the correct name:
 - i. From the **Server name** dropdown list, select **<Browse for more...>**.
 - ii. In the **Browse for Servers** prompt, click the **Network Servers** tab. This automatically initiates a search for servers on your network.

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- iii. When the search completes, expand **Database Engine** and single-click the desired server name or server name\instance name combination.
- iv. Click OK.
- c. At Authentication, select SQL Server Authentication.
- d. At Login, enter sa.
- e. At **Password**, enter the password assigned to the **sa** login.
- f. Click Connect.

Connect to Server	×
SQL Serve	Windows Server System 1 .2005
Server <u>t</u> ype:	Database Engine
<u>S</u> erver name:	TESTSERVER\SQLEXPRESS
Authentication:	SQL Server Authentication
<u>L</u> ogin:	sa
Password:	******
	Remember password
<u>C</u> onnect	Cancel Help Options >>

NOTE: If the **Connect to Server** prompt is not displayed, click **File > New > Database Engine Query** in **Microsoft SQL Server Management Studio** and complete the preceding substeps in the **Connect to Database Engine** prompt.

Create a Database

1. In the **Object Explorer** (i.e. the left pane) of **Microsoft SQL Server Management Studio,** right-click **Databases** and, from the shortcut menu, select **New Database**.



2. In the **New Database** prompt, at **Database name**, create and enter a name for the database. (The recommended database name is **WinSPC**.)

🚪 New Database					_ 🗆 🗙
Select a page	_ Script 👻 📑 H	elp			
General Options Filegroups	Database <u>n</u> ame: <u>O</u> wner:		WinSPC <default></default>		
	Database <u>f</u> iles:	dexing			
	Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth
	WinSPC	Data	PRIMARY	2	By 1 MB, unrestricted growth
	WinSPC_log	Log	Not Applicable	1	By 10 percent, unrestricted growth
Connection Server: TESTSERVER\SQLEXPRESS					
Connection: sa View connection properties					
Progress					Þ
Weak W					Add <u>R</u> emove
					OK Cancel

8

3. If you are configuring a full, as opposed to express, version of Microsoft SQL Server, you may want to consider changing the default **Recovery Model** from **Full** to **Simple**. This helps prevent Microsoft SQL Server's transaction log from growing to a point where it interferes with database performance. To change the **Recovery Model** to **Simple**, under **Select a page**, click **Options** and, at **Recovery model** select **Simple**.

Select a page	🛒 Script 👻 📑 Help		
😭 General	<u>a</u>		
😭 Options	Callabian	a ann an dhafan dha	
🚰 Filegroups		server derauic>	<u> </u>
	Recovery model: Si	imple	-
	Compatibility level:	ull ulk-loaged	
	Other options:	mple	
	Automatic		
	Auto Close	False	
	Auto Create Statistics	True	
	Auto Shrink	False	
	Auto Update Statistics	True	
	Auto Update Statistics Async	hronously False	
	Cursor		
	Close Cursor on Commit Enab	bled False	
	Default Cursor	GLOBAL	
	Miscellaneous		
	ANSI NULL Default	False	
Connection	ANSI NULLS Enabled	False	
Connection	ANSI Padding Enabled	False	
Server:	ANSI Warnings Enabled	False	
TESTSERVER\SQLEXPRESS	Arithmetic Abort Enabled	False	
Connection:	Concatenate Null Yields Null	False	
sa	Cross-database Ownership Cl	haining Enabled False	
View connection properties	Date Correlation Optimization	Enabled False	
wiew connection properties	Numeric Round-Abort	False	
	Parameterization	Simple	
Progress			
Ready	ANSI NULL Derauk		
		ОК	Cancel

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- NOTE: According to Microsoft, with the **Recovery Model** set to **Simple**, a database can only be recovered to the time of the most recent backup. This means that data captured between the most recent backup and a failure which necessitates a recovery is lost. If this is an unacceptable risk for your organization, use the **Full** or **Bulk-logged** option and follow Microsoft's recommendations to control the size of your transaction log.
- 4. Click the New Database prompt's OK button.

Create a Server Login

1. In the **Object Explorer**, right-click the **Security** folder and select **New > Login**.



(The **Security** folder referred to here is the one in the root level of the folder for the server or server\instance you are configuring, not a **Security** sub-folder within a database folder under the root **Databases** folder.)

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- 2. In the Login New prompt:
 - a. At **Login name**, create and enter a name for the login. (The recommended name is **JOHNDOE**.)
 - b. Select SQL Server authentication.
 - c. At **Password**, create and enter a sufficiently strong password for the login.
 - d. At Confirm password, reenter the password.
 - NOTE: The user name and password entered here will be used by Microsoft SQL Server to authentic WinSPC client stations and allow authenticated stations access to the WinSPC database. This user name and password combination is not directly used by WinSPC users. WinSPC users will, later, be assigned individual user IDs and passwords and will use these individual IDs and passwords to log into the WinSPC application on WinSPC client stations.
 - e. Uncheck the Enforce password policy check box.

🚪 Login - New		
Select a page	🔄 Script 👻 📑 Help	
ia erreran erreran erreran User Mapping erreran Securables erreran Status	Login name: <u>W</u> indows authentication SQL Server authentication	JOHNDOE Sgarch
	 	••••••
	Enforce password policy Enforce password expirat Enforce password expirat User must change passw Manned to certificate	ation word at next login
	Cetjificate name:	
Connection	Key name:	
Server: TESTSERVER\SQLEXPRESS	Default <u>d</u> atabase:	WinSPC
Connection: sa	Default l <u>a</u> nguage:	<default></default>
Progress Ready		
		OK Cancel

f. At Default database, select WinSPC.

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- 3. Under **Select a page** (top left pane), single-click **User Mapping** and then, in the right portion of the prompt:
 - a. Under **Users mapped to this login**, in the **Map** column, check the check box for the newly created WinSPC database.
 - b. Under **Database role membership for: <Database Name>**, check the **db_owner** check box.
 - c. Click OK.

📕 Login - New					_ 🗆 🗙
Select a page	式 Script 👻	🛯 📑 Help			
🚰 General					
Server Roles	Users mar	aped to this login:			
Ser Mapping	Map	Database	llser	Default Schema	
Status		master	000	Dordak Scholla	
- Status		master			
		model			
		towadh			
		Lempub Luciespo			
	M	WINSPL	JOHNDOE		
Connection Server: TESTSERVER\SQLEXPRESS Connection: sa Interpretion: sa Interpretion: Sa I	Guest Database db_ac db_bc db_dc db_dc db_dc db_dc db_dc db_dc db_dc db_cc v db_se v public	account enabled for: WinSP gole membership for: WinSPG ccessadmin tokupoperator stareader stawniter lladmin mydatawriter wrer courtyadmin	2		
				ОК	Cancel //

Configure the SQL Server Browser Service and Enable a Network Protocol

- Without exiting Microsoft SQL Server Management Studio, launch SQL Server Configuration Manager, the default path for which is Start > All Programs > Microsoft SQL Server > Configuration Tools > SQL Server Configuration Manager.
- If the Microsoft SQL Server instance you are working with *is not* a named instance, go to step 3. If the instance you are working with *is* a named instance, configure the SQL Server Browser service. (If you don't know whether the instance is named or unnamed, assume it is named.) To configure the SQL Server Browser service:
 - a. In the left pane of SQL Server Configuration Manager, click SQL Server Services.

🛐 SQL Server Configuration Manager		- 🗆 🗵
<u>File Action View H</u> elp		
← → 🗈 🖻 🗟 😫		
SQL Server Configuration Manager (Local)	Name	State
SQL Server 2005 Services	🔎 SQL Server Browser	Stopped
🗄 📲 SQL Server 2005 Network Configuration	SQL Server (SQLEXPRESS)	Running
		►

Installation and Configuration Guide

- b. In the right pane, right-click **SQL Server Browser** and select **Properties**.
- c. In the **SQL Server Browser Properties** prompt, click the **Service** tab.
- d. On this tab, to the right of **Start Mode**, click **Disabled** and select **Automatic**.

🖯 Gen	eral	
Bina	ry Path	"c:\Program Files\Microsoft SQL Ser
Erro	r Control	1
Exit	Code	1077
Host	Name	TESTSERVER
Nam	e	SQL Server Browser
Proc	ess ID	0
SQL	Service Type	SQL Browser
Star	t Mode	Disabled 💌
Stat	8	Automatic
		Disabled
		Manual
Chaut N	1ode	

- e. Click the **Apply** button.
- f. Click the **Log On** tab and on this tab click the **Start** button.

SQL Server Browser Properties	? ×
Log On Service Advanced	
Log on as:	
Built-in account:	
Network Service	
C This account:	
Account Name: Brg	jwse
P <u>a</u> ssword:	
Confirm password:	
Service status: Stopped	
Stort Stop Pause Re:	start
OK Cancel Apply	Help

- g. Allow the progress bar that appears to complete.
- h. Click OK.

- 3. Enable a network protocol. To do this:
 - a. In the left pane of **SQL Server Configuration Manager**, expand **SQL Server Network Configuration** and single-click **Protocols for <SERVER OR INSTANCE NAME>**.

🛐 SQL Server Configuration Manager		
File Action View Help		
← → ▲ ▲ ▲ ▲ SQL Server Configuration Manager (Local) SQL Server 2005 Services SQL Server 2005 Network Configuration SQL Server 2005 Network Configuration ■ ■ ■ Protocols for SQLEXPRESS ■ ● ● ■ ● ■ ■ ● ●	Protocol Name Shared Memory Named Pipes TCP/IP	Status Enabled Disabled Disabled Disabled

b. In the right pane, right-click either **TCP/IP** or **Named Pipes** and click **Enable**. (WinSPC works with either of these options. If you are unsure of which option to choose, consult your network administrator.)



c. In the warning indicating that changes will not take effect until the service is stopped and restarted, click **OK**.



d. Close SQL Server Configuration Manager.

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e. In **Microsoft SQL Server Management Studio**, right-click the server you've been configuring and select **Stop**.



f. In the message box that appears, click **Yes** to confirm you want to stop the service.



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- Kicrosoft SQL Server Management Studio Express _ U X <u>File Edit Y</u>iew <u>T</u>ools <u>W</u>indow Community Help 🔁 New Query | 🕞 | 💦 | 😂 🐏 👯 📟 🥔 | 📴 📴 🥻 🌁 🖕 Object Explorer • 4 × Summary ▼ × 📲 🛃 🔳 🝸 🛃 过 🛃 🦨 🍸 🔠 🏛 E 🔀 TESTSERVER\SQLEXPRESS (SQL Server 9.0 🛨 🚞 Databases Connect... TESTSERVER\ 🕀 🚞 Security Disconnect 🛨 🚞 Server Objects TESTSERVER\SQL 5 Item(s) 🛨 🚞 Replication Register... 🕀 📴 Management New Query ame 🛯 Databases <u>S</u>tart Security Stop Server Objects Pause Replication 🛯 Management Resume Rest<u>a</u>rt Reports ۲ • [Refresh Ready Properties
- g. When the message box closes, right-click the server again and select **Start**.

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h. In the message box that appears, click **Yes** to confirm you want to start the service.



i. Click File > Exit to close Microsoft SQL Server Management Studio.

THIS COMPLETES PHASE 1 OF 4.

GO TO THE NEXT PAGE AND COMPLETE PHASE 2.

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FIRST CLIENT INSTALL AND CONFIGURATION (INITIAL STEPS)

This section concerns the installation and configuration of WinSPC on the first WinSPC client. The first WinSPC client refers to the first computer on which you want to install WinSPC. This computer can be any computer on your network.

If your implementation employs Microsoft Terminal Services, see the discussion on page 1 of this guide for direction on whether to make your first client the Microsoft Terminal Services server or another computer.

- 1. Create a folder on a network file server accessible by all client stations that will run WinSPC. This folder's primary purpose is to facilitate the installation and configuration of WinSPC on all clients other than the first client. (The recommended name for this folder is **WinSPCRemote**.)
- 2. Share this folder and grant domain administrators at least the minimum required permissions to it. For file servers running Windows Server 2003, the minimum *Share* permissions are **Change** and the minimum *Security* permissions are **Modify**. For file servers running Windows Server 2008, the minimum *Share* permissions are **Contributor** and the minimum *Security* permissions are **Contributor** and the minimum *Share* or *Security* permissions, see **Appendix D: Granting Share and Security Permissions**.)
 - NOTE: If your WinSPC implementation is part of a workgroup rather than a domain, grant these minimum permissions to the local administrator who will install and configure WinSPC on the first WinSPC client.

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Terminal Services

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3. Log into Windows on the first WinSPC client as a domain administrator who also has local administrator privileges.

NOTE: If the first WinSPC client is part of a workgroup instead of a domain, log in as a local administrator.

- 4. If you downloaded **Install.exe** from <u>winspc.com/downloads</u>:
 - a. Transfer this file to the first WinSPC client if it was downloaded to a different computer.
 - b. Double-click the file.
 - c. If an **Open File Security Warning** prompt appears, click **Run**.
 - d. Go to step 6.

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- 5. If you have the WinSPC CD (whether as a result of receiving it from DataNet Quality Systems or burning it from the **WinSPC.iso** file at <u>winspc.com/downloads</u>) and you did not complete the preceding step:
 - a. Insert and run the CD.
 - b. On the **WinSPC Version 8.0** setup prompt that appears, click **Install or Upgrade**.

STATISTICAL PROCESS CONTROL	Close X
What's New ReadMe Installation & Configuration Guide Upgrade Instructions	Install or Upgrade
Need Help? Dial 866.4WINSPC or 24	48.447.0140 www.winspc.com

c. Go to step 6.

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- 6. Complete the WinSPC Installation Wizard.
 - NOTE: The prompts of this wizard are intended to be selfexplanatory. Consequently, they are not detailed here. If you have a question about a prompt or want to be directed step-by-step through the wizard, see **Appendix A: The WinSPC Installation Wizard.**
- 7. Complete **Appendix B: Installing NJWin for an Asian Language** if the first client will need to run WinSPC in an Asian language or you would like to run the WinSPC Configuration Wizard in an Asian language. (The WinSPC Configuration Wizard is the tool you will use next. As its name implies, it is the tool used to configure WinSPC.)
- 8. If you installed WinSPC from a CD, exit the **WinSPC Version 8.0** setup prompt by clicking **Close** in the upper right corner and remove the CD from the CD-ROM drive.
- 9. Click **Start > All Programs > WinSPC > WinSPC.** This launches the WinSPC Configuration Wizard.

10. On the **Language** prompt, from the **Select language** list, choose a language and click **Next**.



NOTE: The language selected here is the language in which the remainder of the WinSPC Configuration Wizard will run. It also becomes the system-wide default language for WinSPC. (This default language can be changed at any time following the completion of the WinSPC Configuration Wizard. Once the configuration of the first WinSPC client is complete, you can see the **WinSPC Help** for more information on default languages.)

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11. On the **Database Server Type** prompt, select your **Microsoft SQL Server** edition and click **Next.**



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12. On the Microsoft SQL Server Settings prompt:

- a. At **Machine Name**, if the instance of Microsoft SQL Server designated for WinSPC is a named instance, enter the name of the machine on which the instance is created and the name of the instance, separating the two by a backslash (e.g. Testserver\SQLExpress). If the instance is an unnamed instance, enter the server name only. If you do not know whether the instance is named or unnamed or if you know the instance is named but are unsure of the name used, contact the server administrator.
- b. At **Database Name**, enter the database name you chose in step 2 of this chapter's **Create a Database** section.

c. Click Ne	ext.
-------------	------

WinSPC Configuration Wizard	
WINSPC	Microsoft SQL Server Settings Enter the machine name of your Microsoft SQL Server, and the name of your WinSPC database.
	Machine Name: Testserver\SQLExpress 🚽 (e.g., Main)
	Database Name: WinSPC (e.g., WinSPC)
	< <u>B</u> ack Next> Cancel

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13. On the **Database Server Log In** prompt, enter the server **User Name** and **Password** created in step 2 of this chapter's **Create a Server Login** section and click **Next.**

WinSPC Configuration Wizard	
WINSPC [®]	Database Server Log In Enter the user name and password that you want WinSPC to use when logging into your database server.
	User Name: JOHNDOE (e.g., JOHNDOE) Password: ******* (e.g., password)
	< <u>B</u> ack Next > Cancel

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14. On the Database Communications Test prompt, click Next.

If you get a **Database Communications Error** indicating there is an *invalid connection string attribute*, the communication test failed. The most likely causes of the failure and their remedies are:

The database server login was entered incorrectly. To remedy this, click the Back button two times and re-enter the user name and password, ensuring you have the correct user name and password and that these are spelled correctly. Also, since passwords are case sensitive, ensure appropriate capitalization is used for the password. Once you have re-entered the login, click Next and advance through the WinSPC Configuration Wizard again, verifying the information on each prompt as you do.

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- The machine name, instance name or database name was entered incorrectly. To remedy this, click the Back button three times and re-enter the machine name, instance name (if you are working with a named instance) and database name, ensuring you have the correct names and that these are spelled correctly. Also, when entering an instance name, ensure it is properly separated from the machine name by a backslash (e.g. Testserver\SQLExpress.) Once you have re-entered the name(s), click Next and advance through the WinSPC Configuration Wizard again, verifying the information on each prompt as you do.
- The instance being used for WinSPC is a named instance but the SQL Server Browser service is not configured. To remedy this, complete steps 1 and 2 of the Configure the SQL Server Browser Service and Enable a Network Protocol section earlier in this chapter, then click the Back button in the WinSPC Configuration Wizard once and try the database communications test again.
- A network protocol has not been enabled. To remedy this, repeat steps 1 and 3 of the Configure the SQL Server
 Browser Service and Enable a Network Protocol section earlier in this chapter, then click the Back button in the WinSPC Configuration Wizard once and try the database communications test again.

| | 1

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- A network protocol was enabled but the instance was not restarted afterwards. To remedy this, repeat steps 1 and 3e-3h of the Configure the SQL Server Browser Service and Enable a Network Protocol section earlier in this chapter, then click the Back button in the WinSPC Configuration Wizard once and try the database communications test again.
- 15. On the **Database Creation** prompt, click **Next**. This creates the WinSPC schema within the WinSPC database.

WinSPC Configuration Wizard							
WINSPC	A new, empty, WinSPC database will now be created on your database server. Your database server has the following characteristics:						
Database Type: Microsoft SQL Server Database Name: \\Testserver\WinSPC							
Press Next to continue.							
	< <u>B</u> ack Next > Cancel						

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16.	Allow	the	prom	ot's	progress	bar to	complete.
-----	-------	-----	------	------	----------	--------	-----------

WinSPC Configuration	Wizard						
WINSPC ⁻	Database Creation A new, empty, WinSPC database will now be created on your database server. Your database server has the following characteristics:						
	Database Type: Microsoft SQL Server Database Name: \\Testserver\WinSPC						
	Progress	ABUUKMHK					
	< <u>B</u> ack	Next > Cancel					

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- 17. If you selected a language other than English in step 10 of this section, an **Add Language** prompt appears once the WinSPC schema is created. In this case:
 - a. Insert the language disk for the selected language into your floppy drive and click the OK button. (Language disks are included in your WinSPC materials. If you didn't order a language disk and, consequently, did not receive one, click the Cancel button and complete the WinSPC Configuration Wizard without adding the language. Later, you can order the language disk and, once the disk arrives, add the language using the Add Language option on the Administrator window's Tools menu in WinSPC. Until the language is added, you'll be restricted to running WinSPC in English. The remainder of the WinSPC Configuration Wizard continues to run in the selected language whether or not a language is added from a language disk.)
 - b. In the message asking if you want to proceed with the addition of the detected language, click **OK**.
 - c. If a message indicating the detected language has already been installed appears, click **OK**.
 - d. Allow the Adding New Language progress bar to complete.
 - e. When the You may now select the desired language in the System Settings, Station Setup, or User Setup message appears, click OK.
 - f. If the Add Language prompt reappears, click Cancel.
 - g. Remove the language disk from the floppy drive.

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THIS COMPLETES PHASE 2 OF 4.

GO TO **CHAPTER 4: FIRST CLIENT CONFIGURATION (FINAL STEPS)** AND COMPLETE PHASE 3.

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CHAPTER 2: ORACLE 10g

ASSUMPTIONS

The instructions in this chapter are based on the following assumptions:

- Oracle Database 10g software is installed on your database server.
- An Oracle Database 10g global database of the Enterprise Edition installation type is created and running on your database server and you have been authorized to use part of this global database for WinSPC.
- Oracle Database 10g Client is installed on the first WinSPC client and that installation is of the Administrator type (as compared to the Runtime or Custom types). (The first WinSPC client refers to the first computer on which you want to install WinSPC. This computer can be any computer on your network. If the operating system of this client is Windows Vista Business, you must use the 10.2.0.3.0 edition of Oracle Database 10g Client. If the operating system is Windows XP Pro, you may use either the 10.2.0.3.0 edition or the earlier 10.2.0.1.0 edition.)
- The necessary Oracle Database 10g Client utilities are installed an all other clients. (If the operating system of an additional client is Windows Vista Business, the necessary utilities are Oracle Provider for OLE DB and Oracle Net from the 10.2.0.3.0 edition of Oracle Database 10g Client. If the operating system is Windows XP Pro, the necessary utilities vary with the edition of Oracle Database 10g Client being used. If that edition is 10.2.0.3.0, the necessary utilities are the same as those for Windows Vista Business. If that edition is 10.2.0.1.0, the necessary utilities consist only of Oracle Provider for OLE DB. Incidentally, regardless of the operating system or edition of Oracle Database 10g Client

Installation and Configuration Guide

installed on your clients, if your organization's intended use of WinSPC includes taking data stored in an Oracle ODBC data source and collecting it into the Oracle database you are configuring for WinSPC, **Oracle ODBC Driver** from Oracle Database 10g Client will need to be installed on each WinSPC client to be used in collecting that stored data. Since the presence of this driver presents no complication, DataNet Quality Systems recommends installing it even if the use of WinSPC to collect data from an Oracle ODBC data source is only a possibility. The **Administrator** type of client mentioned in the preceding assumption includes this driver and consequently does not need to separately installed on the first WinSPC client.)

- The default values presented by Oracle Database 10g and Oracle Database 10g Client during the installation process were accepted without modification.
- Any firewalls between your database server and the client stations to be used for WinSPC are properly configured to permit database traffic.



- For implementations employing a Microsoft Terminal Services environment, Microsoft Terminal Services is properly installed and configured on the server designated as your Microsoft Terminal Services server.
 - NOTE: You may find that users who don't have administrative permissions to the Microsoft Terminal Services server are unable to launch WinSPC via a Remote Desktop Protocol session. This is a circumstance specific to Oracle Database 10g and Oracle Database 11g. It can be remedied by changing the **Permission Capability** on the Microsoft Terminal Services server from **Full Security** to

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Relaxed Security. Alternatively, consult your network administrator and/or Oracle DBA for other remedies.

- The operating system of your database server machine is Windows Server 2003.
- The operating system of the client machines to be used for WinSPC is either Windows Vista Business or Windows XP Pro. (Images of client machines included in this guide are from Vista Business.)
- NOTE: If a default value was modified during the installation of Oracle Database 10g or an operating system is different from that stated here, adapt the instructions in this guide as needed to accommodate the modified value or differing operating system.

Prior to beginning this procedure, it's advised that you locate the hostname (or machine name) for the Oracle Database 10g machine and the Oracle Database 10g global database system identifier (SID), user name and password. Your database administrator should be able to provide this information.

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Phase 1 of 4 SERVER CONFIGURATION

Create a Tablespace

- On the first WinSPC client station, launch the Enterprise Manager Console. The default path for this is: Start > All Programs > Oracle - OraClient10g_home1 > Enterprise Manager Console. (See the third assumption at the beginning of this chapter for a definition of the first WinSPC client.)
 - NOTE: If the Enterprise Manager Console is not listed in the Start menu, it is probably because the Administrator installation type was not selected when Oracle Database 10g Client was installed. In this case, reinstall Oracle Database 10g Client, selecting Administrator in the Select Installation Type prompt and then return to this step.
- 2. In the Add Databases To Tree prompt:
 - a. At **Hostname**, enter the machine name of the Oracle Database 10g server.
 - b. At **Port Number**, accept the default value of 1521 unless your DBA has instructed you to use a different port number.
 - c. At **SID**, enter the system identifier for the Oracle global database to be used by WinSPC.
 - d. At **Net Service Name**, overwrite the net service name that is automatically created with a name you want to use to uniquely identify the WinSPC net service. (The recommended net service name is **WINSPC**.)

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e. Click OK.

🧟 Add Databases To Tree	Add Databases To Tree							
Add a database manu	Add a database <u>m</u> anually							
Hostname:	Testserver							
Port Number:	1521							
SID:	ORCL							
Net Service Name:	WinSPC							
○ <u>A</u> dd selected database located in C:\oracle\p	es from your local tnsnames.ora file roduct\10.2.0\client_1\NETWORK\ADMIN							
🗣 Service Name								
	OK Cancel Help							

NOTE: If the Add Databases To Tree prompt doesn't automatically appear after step 1, it can be displayed by selecting Add Database To Tree from the Navigator menu in the Oracle Enterprise Manager Console.

Installation and Configuration Guide

3. In the left pane of the **Oracle Enterprise Manager Console**, expand **Network > Databases** and click the plus sign to the left of the net service name from step 2d.



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- 4. In the **Database Connect Information** prompt that is displayed:
 - a. At **Username**, enter the username for the global database.
 - b. At **Password**, enter the password associated with this user name.
 - c. At Connect as, select SYSDBA from the dropdown list.
 - d. Click OK.

🧟 Database Connect Informati	ion	X
ORACLE ENTERPRISE MANAGER		
	<u>U</u> sername:	SYS
	Password:	*****
	Service:	WINSPC
	Connect <u>a</u> s:	SYSDBA 🔻
	🗆 Save As Lo	ocal Preferred <u>C</u> redentials
ORACLE	ОК	Cancel Help

Installation and Configuration Guide

- 5. In the left pane, beneath the newly added net service name, expand **Storage**, right-click **Tablespaces** and, from the shortcut menu, select **Create**.
 - NOTE: If you do not see **Create** on the shortcut menu, press the **ESC** button to exit the menu and right-click **Tablespaces** again.



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- 6. In the **Create Tablespace** prompt, on the **General** tab:
 - a. At **Name**, create and enter a name for the tablespace to be used for WinSPC. (Notice that, as you enter the name, it is automatically populated into the **Datafiles** section, forming a file name for the tablespace.)

Installation and Configuration Guide

b. At Size, double-click 5.

🧟 Create Tablespace - SYS@WINSI	PC		×
General Storage			
Name: WINSPC			
Datafiles			
File Name	File Directory	Size	
🛃 🖹 WINSPC.ora	C:\ORACLE\PROD	5 MB	
Status			
Offline Normal			
Type Permanent			
OTemporary			
Set as Default Temporar	v Tablespace		
OUndo	,		
	<u>C</u> reate Cancel	Show SQL	Help

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🧟 Create Datafile - SYS@WINSPC
General Storage
Tablesnare: WINISPC
Size:
File Size: 5 M Bytes 👻
Reuse Existing File
OK Cancel Help

7. In the **Create Datafile** prompt that is displayed, click the **Storage** tab.

Installation and Configuration Guide

- 8. On the **Storage** tab:
 - a. Check the Automatically extend datafile when full (AUTOEXTEND) check box.
 - b. Specify **5 M Bytes** as the size by which the datafile should be incremented. (Your database administrator can monitor your database usage and tune this value as needed.)
 - c. At Maximum Size, accept the default Unlimited.

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d. Click OK.

🥵 Create Datafile - SYS@WINSPC 🛛 💌
General Storage
Automatically extend datafile when full (AUTOEXTEND)
Value KBytes
OK Cancel Help

Installation and Configuration Guide

9.	In the	Create	Tables	pace	prompt	, click	Create.
----	--------	--------	--------	------	--------	---------	---------

🧟 Create Tablespace - SYS@WINSPO	2			×					
General Storage									
	General Storage								
	Name: WINSPC								
File Name	File Directory	Size							
VINSPC.ora	C:\ORACLE\PROD	5	MB						
	1								
N 10									
- Status									
Online Read Only									
Offline Normal									
Type									
C Temporary									
Set as Default Temporary	Tablespace								
OUndo									
	Zreate Cancel	Show	SQL	Help					

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10. When the **Tablespace created successfully** message appears, click **OK**.



Create a Server Login

1. Still beneath the newly created net service name, expand **Security**, right-click **Users** and, from the shortcut menu, click **Create**.

Installation and Configuration Guide



- 2. In the **Create User** prompt, on the **General** tab:
 - a. At **Name**, create and enter a name for the login. (The recommended user name is **JOHNDOE**.)

Installation and Configuration Guide

- b. At **Enter Password**, create and enter a sufficiently strong password for the login.
- c. At Confirm Password, reenter the password.
- NOTE: The name and password entered here will be used by Oracle Database 10g to authentic WinSPC client stations and allow authenticated stations access to the WinSPC tablespace. This name and password combination is not directly used by WinSPC users. WinSPC users will, later, be assigned individual user IDs and passwords. They will use these individual user IDs and passwords to log into the WinSPC application on WinSPC client machines.
- d. In the **Tablespaces** section, at **Default**, select the tablespace name created in step 6a of this chapter's **Create a Tablespace** section.
- e. At Temporary, select TEMP.

Installation and Configuration Guide

f. Leave **Status** as **Unlocked**.

🕵 Create User - SYS@WINSPC 💽
General Role System Object Quota XML Consumer Group
Name: JOHNDOE
Profile: DEFAULT
Authentication Password
Enter Password: *******
Confirm Password: *******
Expire Password Now
Tablaanasaa
Default: WINSPC
Temporary: TEMP
Status
C Locked C Unlocked
<u>Create</u> Cancel Show

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3. Without clicking **Create**, click the **Role** tab and, in the **Available** list, double-click **RESOURCE**. This copies **RESOURCE** to the **Granted** list.

Installation and Configuration Guide

Chapter 2: Oracle 10g

10	Create User - SYS@WINSPC								
I	Ge	eneral	Role	System	Object	Quota	XML	Consum	er Group
I	Ava	ilable:							
I	JAVA_DEPLOY								
J	LC	LOGSTDBY_ADMINISTRATOR							
I	MC	BMT_US	BER						
L		:M_ADV :M_MOR	UTOR						
		AP DB	AUTOR A						
	OL	AP US	ER						
I	RE	ECOVER	RY_CAT	ALOG_OV	VNER				
I	RE	SOUR	CE						
I	SC	HEDU	LER_AD	DMIN					
I						G 1			
I						\geq	\sim		
I	Gra	anted:							
I		Role						Adr	nin Optior
I		CONN	ECT						x
I	đ	RESO	JRCE						x
I									
I									
I									
I									
						Crea	te	Cancel	Show
(D

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4. Click the **System** tab and, in the **Available** list, double-click **CREATE ANY INDEX**. This copies **CREATE ANY INDEX** to the **Granted** list.

Installation and Configuration Guide

Chapter 2: Oracle 10g

30	🤔 Create U	ser - SYS	@WINSPC	:				×
I	General	Role	System	Object	Quota	XML	Consume	r Group
I	Available:							
I	CREATE /	ANY CLI	JSTER					
J	CREATE /	ANY CO	NTEXT					
I	CREATE /	ANY DIM	IENSION					
I	CREATE /	ANY DIR	ECTORY	0.01/751	-			
I				CONTEX	.1			
I		ANY IND						
I	CREATE /	ANY.IOF	3					
I	CREATE /	ANY LIB	- RARY					
I	CREATE /	ANY MAT	TERIALIZE	D VIEW				
I	·							
I					\otimes	\otimes		
I	Granted:							
I	System	n Privile _:	ge					
I	🛃 CREAT	FE ANY I	INDEX					
I								
I								
I								
I								
I								
					Crea	te	Cancel	Show
	•							D

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- 5. Click Create.
- 6. When the User created successfully message appears, click OK.



Set the Number of Open Cursors

1. Calculate the required number of open cursors using this formula:

open_cursors = number of WinSPC licenses * 50

Installation and Configuration Guide

2. Still in the **Oracle Enterprise Manager Console**, in the left pane, expand **Instance** and click **Configuration**.



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3. In the right pane, click **All Initialization Parameters** toward the bottom of the **General** tab.



4. In the Edit Database: Configuration prompt, scroll to open_cursors, replace the default number of open cursors in the Value column with the number you calculated in step 1 and click Apply.

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🕵 Edit Database : Configuration - SYS@WINSPC						
All Parameters						
	Running O SPFile					
		is currenny in e				
	Parameter Name	value	Default	Dynam		
	nls_time_tz_format		 ✓ 			
	nls_timestamp_format		 			
	nls_timestamp_tz_format		 			
	object_cache_max_size_percent	10	 ✓ 	🖌 🖌		
	object_cache_optimal_size	102400	× .	🗸 🗸 🖓		
	olap_page_pool_size	0	 Image: A set of the set of the	 Image: A second s		
	open_cursors	20000		🗸 🗸 🖓		
	open_links	4	× .			
	open_links_per_instance	4	× .			
	optimizer_dynamic_sampling	2	 Image: A set of the set of the	 Image: A second s		
	optimizer_features_enable	10.2.0.1	× .	 Image: A second s		
	optimizer_index_caching	0	× .	~		
	optimizer_index_cost_adj	100	× .	~		
	optimizer_mode	ALL_ROWS	 Image: A set of the set of the	~		
	optimizer_secure_view_merging	TRUE	 Image: A set of the set of the	~		
	os_authent_prefix	OPS\$	 Image: A second s			
	os_roles	FALSE	 Image: A second s			
	parallel_adaptive_multi_user	TRUE	 Image: A second s	~		
	narallel automatic tuning	FALSE	v			
			A	pply		

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5. When the **Parameters have been changed** message appears, click **OK**.



Close the Oracle Enterprise Manager Console by clicking File > Exit.

Test the Local Net Service Name

1. Still on the first client machine, click Start > All Programs > Oracle – OraClient10g_home1 > Configuration and Migration Tools > Net Configuration Assistant.

Installation and Configuration Guide

2.	In the Oracle Net Configuration Assistant: Welcome prompt,
	select Local Net Service Name configuration and click Next.

Oracle Net Configuration As	sistant: Welcome 🗾
	Welcome to the Oracle Net Configuration Assistant. This tool will take you through the common configuration steps, listed below. Choose the configuration you would like to do: Clistener configuration Naming Methods configuration Clocal Net Service Name configuration Directory Usage Configuration
Cancel Help) < Back Next >)

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3.	Select	Test	and	click	Next.

Oracle Net Configuration Assistant: Net Service Name Configuration				
	To access an Oracle database, or other service, across the network you use a net service name. The Oracle Net Configuration Assistant allows you to work with net service names resolved using local naming. Select what you want to do: Add Reconfigure Delete Rename Test			
Cancel Help				

Installation and Configuration Guide

4. Select the net service name you specified in step 2d of this chapter's **Create a Tablespace** section, if it isn't already selected, and click **Next**.

Oracle Net Configuration Assistant: Ne	et Service Name Configuration, Select Net Se 📧
	Select a net service name you want to test: WINSPC
Cancel Help	G Back Next D

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Oracle Net Configuration Assistant: Net Service Name Configuration, Connecting 🛛 🞫				
	Wait while the Oracle Net Details:			
	ConnectingORA-01017: invalid username/password; logon denied The test did not succeed.			
	Some of the information you provided may be incorrect. Click Back to review the information provided for net service name, or Change Login to change username.			
	Change Login			
Cancel Help	🔇 Back 📉 🔊			

5. In the next prompt, which indicates the test did not succeed, click the **Change Login** button.

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6. In the **Change Login** prompt, replace the default username and password with the username and password you created in step 2 of this chapter's **Create a Server Login** section and click **OK**.

Change Login 💽
Change Login
Username: JOHNDOE
Password: *******
OK Cancel

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Oracle Net Configuration A	ssistant: Net Service Name Configuration, Connecting	x
	Wait while the Oracle Net Details:	
	ConnectingTest successful.	
	Change Login	
Cancel Help	🕜 📴 ack 📃 Next 📎	

7. When the test is indicated as having succeeded, click **Next**.

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8. Click **Next** when the net service name configuration is indicated as complete.

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Oracle Net Configuration A	ssistant: Welcome
	Welcome to the Oracle Net Configuration Assistant. This tool will take you through the common configuration steps, listed below. Choose the configuration you would like to do: Clistener configuration Naming Methods configuration Local Net Service Name configuration Directory Usage Configuration
Cancel Help) < Back Next > Einish

9. On the **Welcome** prompt, click **Finish**.

THIS COMPLETES PHASE 1 OF 4. GO TO THE NEXT PAGE AND COMPLETE PHASE 2.

Installation and Configuration Guide

Phase 2 of 4 FIRST CLIENT INSTALL AND CONFIGURATION (INITIAL STEPS)

This section concerns the installation and configuration of WinSPC on the first WinSPC client. (See the third assumption at the beginning of this chapter for a definition of the first WinSPC client.)



Terminal Services

If your implementation employs Microsoft Terminal Services, see the discussion on page 1 of this guide for direction on whether to make your first client the Microsoft Terminal Services server or another computer.

- 1. Create a folder on a network file server accessible by all client stations that will run WinSPC. This folder's primary purpose is to facilitate the installation and configuration of WinSPC on all clients other than the first client. (The recommended name for this folder is **WinSPCRemote**.)
- Share this folder and grant domain administrators at least the minimum required permissions to it. For file servers running Windows Server 2003, the minimum *Share* permissions are **Change** and the minimum *Security* permissions are **Modify**. For file servers running Windows Server 2008, the minimum *Share* permissions are **Contributor** and the minimum *Share* permissions are **Contributor** and the minimum *Share* permissions are **Contributor** and the minimum *Share* permissions are **Modify**. (For a procedure on granting *Share* or *Security* permissions, see **Appendix D: Granting Share and Security Permissions**.)
 - NOTE: If your WinSPC implementation is part of a workgroup rather than a domain, grant these minimum permissions to the local administrator who will install and configure WinSPC on the first WinSPC client station.

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- 3. Log into Windows on the first WinSPC client station as a domain administrator who also has local administrator privileges.
 - NOTE: If the first WinSPC client is part of a workgroup instead of a domain, log in as a local administrator.
- 4. If you downloaded **Install.exe** from <u>winspc.com/downloads</u>:
 - a. Transfer this file to the first WinSPC client if it was downloaded to a different computer.
 - b. Double-click the file.
 - c. If an **Open File Security Warning** prompt appears, click **Run**.
 - d. Go to step 6.

Installation and Configuration Guide

- 5. If you have the WinSPC CD (whether as a result of receiving it from DataNet Quality Systems or burning it from the **WinSPC.iso** file at <u>winspc.com/downloads</u>) and you did not complete the preceding step:
 - a. Insert and run the CD.
 - b. On the **WinSPC Version 8.0** setup prompt that appears, click **Install or Upgrade**.

Version 8.0	Close X
 What's New ReadMe Installation & Configuration Guide Upgrade Instructions 	Install or Upgrade
Need Help? Dial 866.4WINSPC or 24	8.447.0140 www.winspc.com

c. Go to step 6.



- 6. Complete the WinSPC Installation Wizard.
 - NOTE: The prompts of this wizard are intended to be selfexplanatory. Consequently, they are not detailed here. If you have a question about a prompt or want to be directed step-by-step through the wizard, see **Appendix A: The WinSPC Installation Wizard**.
- 7. Complete Appendix B: Installing NJWin for an Asian Language if the first client station will need to run WinSPC in an Asian language or you would like to run the WinSPC Configuration Wizard in an Asian language. (The WinSPC Configuration Wizard is the tool you will use next in this first client configuration process.)
- 8. If you installed WinSPC from a CD, exit the **WinSPC Version 8.0** setup prompt by clicking **Close** in the upper right corner and remove the WinSPC CD from the CD-ROM drive.
- 9. Click **Start > All Programs > WinSPC > WinSPC.** This launches the WinSPC Configuration Wizard.

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10. On the **Language** prompt, from the **Select language** list, choose a language and click **Next**.



NOTE: The language selected here is the language in which the remainder of the WinSPC Configuration Wizard will run. It also becomes the system-wide default language for WinSPC. (This default language can be changed at any time following the completion of the WinSPC Configuration Wizard. Once the configuration of the first WinSPC client is complete, you can see the **WinSPC Help** for more information on default languages.)

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WinSPC Configuration V	Vizard	X
WINSPC	Database Server Type Microsoft SQL Server 2005 Microsoft SQL Server 2005 Express Microsoft SQL Server 2008 Microsoft SQL Server 2008 Express Oracle Database 10g Oracle Database 11g	
	< <u>B</u> ack Next > Can	icel

11. On the **Database Server Type** prompt, select **Oracle Database 10g** and click **Next**.

Installation and Configuration Guide

- 12. On the **Oracle Server Settings** prompt:
 - a. At Path of TNSNAMES.ORA, accept the default location.
 - b. In the **Database Alias** text box, enter the **Net Service Name** you chose in step 2d of this chapter's **Create a Tablespace** section.
 - c. Click Next.

WinSPC Configuration	Wizard	×
WINSPC [®]	Oracle Server Settings Enter the full path name for the location where your TNSNAMES.ORA file resides.	
	Path of TNSNAMES.ORA: C:\oracle\product\10.2.0\client_1\network\admin\	_
	Browse	
	Enter the SQL*Net alias of your database.	
	Database Alias: WinSPC	
	(e.g., WinSPC)	
	< <u>B</u> ack Next > Cano	cel

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13. On the **Database Server Log In** prompt, enter the server **User Name** and **Password** created in step 2 of this chapter's **Create a Server Login** section and click **Next**.

WinSPC Configuration	Wizard 🗾
WINSPC ⁻	Database Server Log In Enter the user name and password that you want WinSPC to use when logging into your database server.
	User Name: JOHNDOE (e.g., JOHNDOE) Password: ******* (e.g., password)
	< <u>B</u> ack Next > Cancel

Installation and Configuration Guide



14. On the Database Communications Test prompt, click Next.

In the event the test fails:

If the error message displayed reads ORA-12154: TNS: could not resolve the connect identifier specified., click the Back button three times and reenter the database alias, ensuring you have the correct name and that it is spelled correctly. Once you've reentered this information, advance through the WinSPC Configuration Wizard again by clicking Next, verifying the information on each prompt as you do.

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- If the error message reads ORA-01017: invalid username/password; logon denied, click the Back button twice and reenter the server user name and password, ensuring you have the correct user name and password and that these are spelled correctly. Also, since passwords are case sensitive, ensure the appropriate capitalization is used for the password. Once you've reentered this information, advance through the WinSPC Configuration Wizard again by clicking Next, verifying the information on each prompt as you do.
- 15. On the **Database Creation** prompt, click **Next**. This creates the WinSPC schema within the WinSPC database.

WinSPC Configuration	Wizard 💽
WINSPC	Database Creation A new, empty, WinSPC database will now be created on your database server. Your database server has the following characteristics:
	Database Type: Oracle Database 10g Database Name: WinSPC
	Press Next to continue.
	< <u>B</u> ack Next > Cancel

Installation and Configuration Guide

16. Allow the prompt's progress bar to comple	lete.
---	-------

WinSPC Configuration	Wizard	
WINSPC	Database Creation A new, empty, WinSPC database will n your database server. Your database s following characteristics:	ow be created on server has the
	Database Type: Oracle Database 10 Database Name: WinSPC Progress	g EVLOG
	< <u>B</u> ack Next >	Cancel

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- 17. If you selected a language other than English in step 10 of this section, an **Add Language** prompt appears once the WinSPC schema is created. In this case:
 - a. Insert the language disk for the selected language into your floppy drive and click the OK button. (Language disks are included in your WinSPC materials. If you didn't order a language disk and, consequently, did not receive one, click the Cancel button and complete the WinSPC Configuration Wizard without adding the language. Later, you can order the language disk and, once the disk arrives, add the language using the Add Language option on the Administrator window's Tools menu in WinSPC. Until the language is added, you'll be restricted to running WinSPC in English. The remainder of the WinSPC Configuration Wizard continues to run in the selected language whether or not a language is added from a language disk.)
 - b. In the message asking if you want to proceed with the addition of the detected language, click **OK**.
 - c. If a message indicating the detected language has already been installed appears, click **OK**.
 - d. Allow the Adding New Language progress bar to complete.
 - e. When the You may now select the desired language in the System Settings, Station Setup, or User Setup message appears, click OK.
 - f. If the Add Language prompt reappears, click Cancel.
 - g. Remove the language disk from the floppy drive.

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THIS COMPLETES PHASE 2 OF 4.

GO TO **CHAPTER 4: FIRST CLIENT CONFIGURATION (FINAL STEPS)** AND COMPLETE PHASE 3.

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CHAPTER 3: ORACLE 11g

ASSUMPTIONS

The instructions in this chapter are based on the following assumptions:

- Oracle Database 11g software is installed on your database server and the installation type is **Enterprise Edition**.
- Oracle Database 11g's **Starter** database is created and running on your database server and you have been authorized to use this database for WinSPC.
- **Oracle Net** from Oracle Database 11g Client is installed on the first WinSPC client machine. (The first WinSPC client machine simply refers to the first computer on which you want to install WinSPC. This computer can be any client machine on your network.)
- Oracle Provider for OLE DB from Oracle Database 11g Client is installed on all client machines which are to run WinSPC (including the first client). (Incidentally, if your organization's intended use of WinSPC includes taking data stored in an Oracle ODBC data source and collecting it into the Oracle database you are configuring, Oracle ODBC Driver from Oracle Database 11g Client will need to be installed on each WinSPC client to be used in collecting that stored data. Since the presence of this driver presents no complication, DataNet Quality Systems recommends installing it even if the use of WinSPC to collect data from an Oracle ODBC data source is only a possibility.)
- The default values presented by Oracle Database 11g during the installation process were accepted without modification.

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• Any firewalls between your database server and the client machines to be used for WinSPC are properly configured to permit database traffic.



- For implementations employing a Microsoft Terminal Services environment, Microsoft Terminal Services is properly installed and configured on the server designated as your Microsoft Terminal Services server.
 - NOTE: You may find that users who don't have administrative permissions to the Microsoft Terminal Services server are unable to launch WinSPC via a Remote Desktop Protocol session. This is a circumstance specific to Oracle Database 10g and Oracle Database 11g. It can be remedied by changing the **Permission Capability** on the Microsoft Terminal Services server from **Full Security** to **Relaxed Security**. Alternatively, consult your network administrator and/or Oracle DBA for other remedies.
- The operating system of your database server machine is Windows Server 2003.
- The operating system of the client machines to be used for WinSPC is either Windows Vista Business or Windows XP Pro. (Images of client machines included in this guide are from Vista Business.)

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NOTE: If a default value was modified during the installation of Oracle Database 11g or an operating system is different from that stated here, adapt the instructions in this guide as needed to accommodate the modified value or differing operating system. Prior to beginning this procedure, it's advised that you locate the hostname (or machine name) for the Oracle Database 11g machine and the global database name and SYS account password assigned during the installation of Oracle Database 11g. Your database administrator should be able to provide this information.

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Phase 1 of 4 SERVER CONFIGURATION

Create a Tablespace

- On the database server machine, launch Database Control for the database to be used by WinSPC. The default path for this is Start > All Programs > Oracle OraDB11g_home1 > Database Control orcl.
- 2. On the **Oracle Enterprise Manager 11***g* login page that is displayed:
 - a. At User Name, enter SYS.
 - b. At **Password**, enter the password for the **SYS** user name.
 - c. At Connect As, select SYSDBA.
 - d. Click Login.

ORACLE Enterprise M Database Control	anager 11 <i>g</i>
Login	
* User Name	SYS
* Password	
Corport As	
CONNECTAS	Login

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Server. ORACLE Enterprise Manager 11 g Setup Pr
 Database Instance: orcl

 Home
 Performance
 Availability
 Server
 Schema
 Data Movement
 Software and Support
 Latest Data Collected From Target Jul 28, 2009 5:50:24 AM PDT (Refresh) View Data Automatically (60 sec) Active Se SQL Re se Time (Shutdown) Black Out) 仚 2.8 Status Up Up Since Jul 28, 2009 5:41:33 AM PDT nos Name orci Version 11.1.0.6.0 Host Testserver testdomain gclab... Listener USTENER Testserver testdom... Server 2.1 1.5 1.0 0.5 1.4 0.0 0.0 View All Properties Load 6.00 Paging 7.06 Maximum CPU 1 SQL Response Time (%) 1123.85 (Edit Reference Collection) High Availability Instance Recovery Time (sec) 68 Last Backup n/a Usable Flash Recovery Area (%) 100 Flashback Database Logging Disabled
 Diagnostic Summary

 ADDM Findings
 No ADDM run available

 Alert Log
 No CRA- errors

 Active Incidents
 Q
 Space Summary Database Size (GB) Problem Tablespaces visor Recommendations Policy Violations Dump Area Used (%) Database Instance Health

3. On the Oracle Enterprise Manager 11g page that appears, click

- 4. On the Server page, under Storage, click Tablespaces.

ORACLE Enterprise Manager 11g		Setup Preferences Help Locout Database
Database Instance: orcl		Logged in As SYS
Home Performance Availability Server	Schema Data Movement Software and Support	
Storage	Database Configuration	Oracle Scheduler
Control Files Tablespaces Tempore Tempore Retables Segn Andreas Andrea	Afferenze Jobio Garagement Antolasion Farameters Intelligion Farameters Dacces	kbis Charlan Scharban Ba-Charlen Windows Windows Global Attractions Global Attractions Global Attractions
Statistics Management	Resource Manager	Security
Automatic Workload Repository AMR Baselines	Gettro Stand Consume Group Plans Blans Satirgs Statetics	Uters Bolas Ponfilas Add Schings Transarent Jata Encopation Yruba Praste Distabase Policies Agelication Contents
Query Optimizer	Change Database	
Manage Optimizer Statistics SOL Plan Control	Add Instance Delete Instance	

Installation and Configuration Guide

5. On the **Tablespaces** page, click **Create**.

abase I	nstance: of	cl >							Logged in As a
blespa	aces								
								Object Type Table	space
Search	h								
Enter an	object nan	ne to filter the data that	t is displayed in your	results set.			(A.		
Object	Name						1 01	reate	
	Go)							
By defaul	t, the search i	eturns all uppercase matche	es beginning with the st	ring you entered. To run an exact or	case-sensitive match, double quote the	search string.	You can use the wildcard	symbol (%) in a sec	
	-								Oreste
Selectio	on Mode S	ngle 🔽							Create
Selectio	on Mode S	ngle 💌 elete) Actions Add Dat	afile	Go					Create
Selection	on Mode S View D Name A	ngle 🔽 elete Actions Add Dat Allocated Size(MB)	afile Space Used(MB)	Go Allocated Space Used(%)	Allocated Free Space(MB	Status Da	atafiles Type	Extent Management	Create Segment Management
Selection Edit Select	Name A	ngle V elete Actions Add Dat Allocated Size(MB) 100.0	afile Space Used(MB) 77.4	Go Allocated Space Used(%)	Allocated Free Space(MB)	Status Da	atafiles Type 1 PERMANENT	Extent Management	Create Segment Management AUTO
Selection Edit Select	Name A	ngle v elete Actions Add Dat Allocated Size(MB) 100.0 605.0	afile Space Used(MB) 77.4 577.5	Go Allocated Space Used(%)	Allocated Free Space(MB) 7.4 22.6 5.5 27.5) Status Da	atafiles Type 1 PERMANENT 1 PERMANENT	Extent Management LOCAL LOCAL	Segment Managemen AUTO AUTO
Selection	Name A SYSAUX SYSTEM	ngle Actions Add Dat Allocated Size(MB) 100.0 605.0 699.0	afile Space Used(MB) 77.4 577.5 682.4	Coo Allocated Space Used(%) 7 9 9	Allocated Free Space (MB) 7.4 22.6 5.5 27.5 3.9 7.6	Status Da	atafiles Type 1 PERMANENT 1 PERMANENT 1 PERMANENT	Extent Management LOCAL LOCAL LOCAL	Create Segment Managemen AUTO AUTO MANUAL
Selection	Name A Name A EXAMPLE SYSAUX SYSTEM TEMP	ngle Actions Add Dat Allocated Size(MB) 100.0 605.0 690.0 20.0	afile Space Used(MB) 77.4 577.5 682.4 0.0	Co) Allocated Space Used(%) 9 9 0	Allocated Free Space(MB) 7.4 22.4 5.5 22.5 3.9 7.4 0 20.0	Status Da	atafiles Type 1 PERMANENT 1 PERMANENT 1 PERMANENT 1 TEMPORARY	Extent Management LOCAL LOCAL LOCAL LOCAL	Create Segment Managemen AUTO AUTO MANUAL MANUAL
Selection	Name A Name A EXAMPLE SYSAUX SYSTEM TEMP UNDOTBS1	ngle elete Actions Add Dat Allocated Size(MB) 100.0 605.0 699.0 20.0 140.0	afile Space Used(MB) 77.4 577.5 682.4 0.0 102.9	Co Allocated Space Used(%) 7 9 9 9 7 7	Allocated Free Space(MB) 7.4 22.6 5.5 27.5 3.9 7.6 0 20.0 3.5 37.7	Status Da	1 PERMANENT 1 PERMANENT 1 PERMANENT 1 PERMANENT 1 TEMPORARY 1 UNDO	Extent Management LOCAL LOCAL LOCAL LOCAL LOCAL	Create Segment Managemen AUTO AUTO MANUAL MANUAL MANUAL
Selection	Name A Name A EXAMPLE SYSAUX SYSTEM TEMP UNDOTBS1 USERS	ngle v elete Actions Add Dat Allocated Size(MB) 100.0 605.0 609.0 20.0 140.0 5.0	afile Space Used(MB) 77.4 577.5 682.4 0.0 102.9 3.1	Co Allocated Space Used(%) 9 0 0 7 7	Allocated Free Space(MB) 7.4 22.4 5.5 227.5 3.9 7.4 0 20.0 2.5 37.1 5 1.6	Status Da	1 PERMANENT 1 PERMANENT 1 PERMANENT 1 TEMPORARY 1 UNDO 1 PERMANENT	Extent Management LOCAL LOCAL LOCAL LOCAL LOCAL LOCAL	Create Segment Managemen AUTO AUTO MANUAL MANUAL AUTO
Selection	Name A EXAMPLE SYSAUX SYSTEM TEMP UNDOTBSI USERS Tabl All	ngle v elete Actions Add Dat Allocated Size(MB) 100.0 605.0 690.0 20.0 140.0 0 0 0 0 0 0 0 0 0 0 0 0 0	afile Space Used(MB) 77.4 577.5 682.4 0.0 102.9 3.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Allocated Space Used(%) 9 0 0 7 7 6	Allocated Free Space(MB 55 2275 39 774 0 2200 35 37.1 5 1.5	Status Da	atafiles Type 1 PERMANENT 1 PERMANENT 1 PERMANENT 1 TEMPORARY 1 UNDO 1 PERMANENT	Extent Management LOCAL LOCAL LOCAL LOCAL LOCAL LOCAL LOCAL	Create Segment Managemen AUTO AUTO MANUAL MANUAL AUTO

6. On the **Create Tablespace** page, at **Name**, enter a name for the tablespace to be used by WinSPC and then, in the bottom right corner, click **Add**.

DRACLE Enterprise Mana Database Control	nger 11 g		Setup Preferences Help Lopout Database
atabase Instance: ord > Tal	blespaces >		Logged in As SYS
reate Tablespace			(Show SOL) (Cancel) (OK)
General Storage			
Name WinSPC			
Extent Managen		Status	
Locally Managed	* Name MinSPC		
ODictionary Managed			
	Encryption (Encryption Options)	Offline	
	○ Temporary		
	Set as default temporary tablespace		
	O Undo		Add
	Undo Retention Guarantee O Yes No 		(
Datafiles			
Use bigfile tablespace Tablespace can have only one data	afile with no practical size limit.		Add
	(here)		(744

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- 7. On the **Add Datafile** page:
 - a. At **File Name**, enter a name for the datafile to be used by WinSPC.
 - b. At File Size, enter 5 MB.
 - c. At **Storage**, check the **Automatically extend datafile when full (AUTOEXTEND)** check box and specify an **Increment** amount of **5 MB**.
 - d. Click Continue.

ORACLE Enterprise Manager 11g		Setup Preferences Help Loqout Database
Database Instance: ord > Tablespaces >		Logged in As SYS
Add Datafile		
File Name (WINSPC File Directory (C:\APP\ADMINISTRATOR\ORADATA\CRCL\ Tablepace WINSPC		Continue
File Size 5 MB 💌	* File Name WinSPC	
Storage	File Directory C:\APP\ADMINISTRATOR\ORADATA\OR	CL
Automatically extend datafile when full (AUTOEXTEND) Increment 5 MB	Tablespace WINSPC	
Maximum File Size O Unlimited Value MB	File Size 5 MB	
TIP Changes made on this page will NOT take effect until you click	Reuse Existing File	
	Storage	(Cancel) (Continue)
Copyright (5) 1996, 2007, Oracle. All rights reserved. Oracle, D. Edwards, PeopleSoft, and Retek are registered trademarks of Oracle Corpora : Shout Oracle Deferencies Measure.	Automatically extend datafile when full (AUTOEXTI	END)

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8. On the **Create Tablespace** page, note the **Information** message that is displayed and click **OK**.

ORACLE Enterprise Mana Database Control	ger 11 g	Setup Preferences Help Logout Database
Database Instance: orcl > Tab	lespaces >	Logged in As SYS
Create Tablespace		
		(Show SQL) (Cancel) (OK)
(1) Information	ull post take offset until your stick VSVI by these	
Concerd	Ann because ensue on you cause one powers	
* Name WINSPC		(OK)
		(OK)
Extent Managem	(1) Information	
Locally Managed	Modification to the datafile will not take effect until you click "OK" button.	
O Dictionary Managed		
	Encryption (Encryption Options)	
	○ Temporary	
	Set as default temporary tablespace	
	© Undo	
	Undo Retention Guarantee O Yes No	

9. On the **Tablespaces** page, note the **Confirmation** message that appears and, directly above it, click **Database Instance**.

Database	Enterp	rise Manager 11 g							Setup	Preferences Help Locout Database
Database	Instance: d	ord >								Logged in As SYS
(i) Con	firmatio	n								
The o	bject has b	een created successfully								Y
Tablesp									-	
									Object Type Tables	ipace 💙
Searc	h	Database 1	Instance	: orcl >						
Enter a	n ok i									
Object	Nam	(i) Con	firmati	ion						
		2000	minute							
By defau	It, the se	The c	biect has	been created :	su	ccessfully www	earch strin	ng. You can use the wildcard	symbol (%) in a double quote	ed string.
						,				Create
Select	on Mode				_					(010410)
(Edit	View)(I	Delete Actions Add Dat	afile	✓ (G0)						
Select	Name 🛆	Allocated Size(MB)	Space Used(MB)	Allocated Space Used(%)		Allocated Free Space(MB)	Status	Datafiles Type	Extent Management	Segment Management
۲	EXAMPLE	100.0	77.4	7.	7.4	22.6	~	1 PERMANENT	LOCAL	AUTO
0	SYSAUX	606.4	577.6	95	5.2	28.8	~	1 PERMANENT	LOCAL	AUTO
0	SYSTEM	690.0	682.4	98	8.9	7.6	~	1 PERMANENT	LOCAL	MANUAL
0	TEMP	20.0	0.0	0.	.0	20.0	~	1 TEMPORARY	LOCAL	MANUAL
0	UNDOTES	1 160.0	155.9	97	7.5	4.1	~	1 UNDO	LOCAL	MANUAL
0	USERS	5.0	3.1	63	2.5	1.9	~	1 PERMANENT	LOCAL	AUTO
0	LAND COC	EO	0.1	1	2			1 0001414 0017	1001	

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Create a Server Login

1. Back on the Server page, under Security, click Users.

ORACLE Enterprise Manager 11g		Setup Proferences Help Logout Database
Database Instance: orcl		Logged in As SYS
Home Performance Availability Server	Schema Data Movement Software and Support	
Storage	Database Configuration	Oracle Scheduler
Control Files Tablespace Corospi Catafiles Catafiles Bedo Log Corospi Archite Log Marchite Log Male Tablespace Locally Marsheet Male Tablespace Locally Marsheet	Mannor Advisor Automatik, Lixdo Managament Iotalalaatoon Peanettera View Database Feature Lisaga	2016 Channe Briogramm Briogramm Mindows Windows Cickal Attrusts Cickal Attrusts
Statistics Management	Resource Manager	Security
Automatic Workload Repository AVAR Baselines	Getting Stand Consumer Group Mappings Plans Sattings Statutos	Users Botie Droffie JuditSettrop Transparent Co. Varia Evication Conc. Agginaction Contexts
Query Optimizer Manage Optimizer Statistics SQL Plan Control	Change Database Add Instance Delete Instance	<u>Users</u>

2. On the Users page, click Create.

ORACL Database	.∈ Enterprise Manag Control	ger 11 <i>g</i>	E.				Setup Preferences Help Logout Database
Database	Instance: orcl >						Logged in As SYS
Users							
Searc Enter a	h n object name to filter	the data that is displaye	d in your results set.		_		Object Type User 🔽
Object By defau Selecti	Name (Bo) It, the search returns all up on Mode Single v	percase matches beginning a	with the string you entered. To run an ex	act or case-sensitive match, do	uble quote the search string. You ca	create	Create
Edit	View Delete Acti	ons Create Like 💌	Go	L	L	C) Previous 1-25 of 38 🖌 Next 13 @
Select	Username /	Account status	Expiration Date	Default Tablespace	Temporary Tablespace	Profile	Created
0	AREY, DUDUTE LICED	EXPIRED & LOCKED	30121, 2009 7:50:33 AM PDT	STSRUA LICERC	TEMP	DEFAULT	Oct 15, 2007 10:36:34 AM PDT
0	BIC FODLIC CODER	EXPIRED & LOCKED	341 21, 2009 7:50:33 AM PDT	U CERC	TEMP	DEFAULT	bi 21, 2000 7:45:59 AM PDT
0	CTXSVS	EXPIRED & LOCKED	Jul 21, 2009 7:50:33 AM PDT	SYSAUX	TEMP	DEFAULT	Ort 15, 2007 10:35:40 AM PDT
0	DBSNMP	OPEN	Jan 17, 2010 7:51:49 AM PST	SYSAUX	TEMP	MONITORING PROFILE	Oct 15, 2007 10:23:30 AM PDT
0	DIP	EXPIRED & LOCKED		USERS	TEMP	DEFAULT	Oct 15, 2007 10:11:17 AM PDT
0	EXESTS	EXPIRED & LOCKED	Jul 21, 2009 7:50:33 AM PDT	SYSAUX	TEMP	DEFAULT	Oct 15, 2007 10:35:14 AM PDT
0	FLOWS 030000	EXPIRED & LOCKED	Jul 21, 2009 7:50:33 AM PDT	SYSAUX	TEMP	DEFAULT	Oct 15, 2007 11:06:45 AM PDT
0	FLOWS FILES	EXPIRED & LOCKED	Jul 21, 2009 7:50:33 AM PDT	SYSAUX	TEMP	DEFAULT	Oct 15, 2007 11:06:44 AM PDT
0	HR	EXPIRED & LOCKED	Jul 21, 2009 7:50:33 AM PDT	USERS	TEMP	DEFAULT	Jul 21, 2009 7:45:58 AM PDT
0	<u>IX</u>	EXPIRED & LOCKED	Jul 21, 2009 7:50:33 AM PDT	USERS	TEMP	DEFAULT	Jul 21, 2009 7:45:58 AM PDT

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- 3. On the **Create User** page:
 - a. At **Name**, create and enter a name for the login. (The recommended user name is **JOHNDOE**.)
 - b. At **Enter Password**, create and enter a sufficiently strong password for the login.
 - c. At Confirm Password, reenter the password.
 - NOTE: The name and password entered here will be used by Oracle Database 11g to authentic WinSPC client machines and allow authenticated machines access to the WinSPC tablespace. This name and password combination is not directly used by WinSPC users. WinSPC users will, later, be assigned individual user IDs and passwords. They will use these individual user IDs and passwords to log into the WinSPC application on WinSPC client machines.
 - d. At **Default Tablespace**, enter the tablespace name specified in step 6 of this chapter's **Create a Tablespace** section.
 - e. At Temporary Tablespace, enter TEMP.

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- ORACLE Enterprise Manager 11g orcl > Users Create User Show SQL Cancel OK General Roles System Privileges Object Privileges Quotas * Name JOHNDOE Profile DEFAULT ~ Authentication Password 🛩 * Enter Password Confirm Password For Password choice, the role is authorized via p Expire Password now * Name JOHNDOE Default Tablespace WINSPC A Profile DEFAULT ~ Temporary Tablespace TEMP 1 Status O Locked O Unlocked Authentication Password 🔽 System Privileges General Roles Object Privileges * Enter Password * Confirm Password Roles Datal Copyright © 1996, 2007, Or Oracle, JD Edwards, Peoplet For Password choice, the role is authorized via password. ation and/or its Expire Password now R Default Tablespace WINSPC N. Temporary Tablespace TEMP Status 🔘 Locked 💿 Unlocked
- f. Without clicking **OK**, click the **Roles** tab.

4. On the Roles tab, click Edit List.

ORACLE Enterprise Database Control	Manager 11 <i>g</i>						Setup Preferen	Database
Database Instance: ord	> Users >							Logged in As SYS
Create Oser							Show SQL	Cancel OK
General Roles	System Privileges	Object Privileges	Quotas	Consumer Group Privileges	Proxy Users			
								(Edit List
Role				Admin 0	Option		Default	
CONNECT								
General Roles	System Privileges	Object Privileges	Ouotas	Consumer Group Privileges	Proxy Users			
			De	ttabase Setup Preferen	ices Help Looput	(Edit List	

Installation and Configuration Guide

5. On the **Modify Roles** page, from the **Available Roles** list, select **RESOURCE** and click **Move**.

Database Instance: ord > Users > Modify Roles	Database
	Logged in As SYS
Available Roles Selected Roles CONNECT	(Cancel) (OK)

This moves **RESOURCE** to the **Selected Roles** list.

- 6. Click **OK**.
- 7. Back on the Create User page, click System Privileges.

DRACLE Enterprise Manager 11g	Setup Preferences Help Locaus Database
Database Instance: orcl > Users >	Logged in As SYS
Create User	(Show SQL) (Cancel) (OK)
General Roles System Privilages Object Privilages Quotas Consumer Group Privilages Pro	vy Usars
	(Edit List)
Role Admin Opt	ion Default
connect Cycetore Drivilogoel	
RESOURCE	
General Roles System Privileges Object Privileges Quotas Consumer Group Privileges Pro	xy Users
	Show SQL Cancel OK
Database Setup Preferences	Help Logout

8. On the System Privileges tab, click Edit List.

Database Instance: orcl	> Users >					Log	ged in As Sh
Lreate User						(Show SQL) (Ca	ncel) (OK
General Roles	System Privileges	Object Privileges	Quotas	Consumer Group Privileges	Proxy Users		
austom Brivilago						Admin Ontion	Edit Lis
lo items found						Autor option	1
General Roles	System Privileges	Object Privileges	Ouotas	Consumer Group Privileges	Proxy Users		1-
						EditList	

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9. On the **Modify System Privileges** page, from the **Available System Privileges** list, select **CREATE ANY INDEX** and click **Move**.

DRACLE Enterprise Manager 11 g	-	Setua Preferences Hela Logout Database
atabase Instance: ord > Users > Andify System Privileges		Logged in As SYS
Available System Privileges OREATE ANY EXILIATION OREATE ANY EXALUATION CONTEXT OREA OREATE OREATE ANY OREATE ANY EXALUSION CREATE ANY EXAL OREATE ANY	Selected System Privileges	(Cancel) (OK)
	Database Setup Preferences Help Logout	Cancel OK

This moves **CREATE ANY INDEX** to the **Selected System Privileges** list.

- 10. Click **OK**.
- 11. Back on the Create User page, click OK again.

ORACLE Enterprise Manager 11 g	Setup Preferences Help Loncut Database
Database Instance: orcl > Users >	Logged in As SYS
Create User	
General Roles System Privileges Object Privileges Quotas Consumer Group Privileges Prosy Users	Showsgel Cancer (OK)
System Privilege	Admin Option
CREATE ANY INDEX	
General Roles System Privileges Object Privileges Quotas Consumer Group Privileges Proxy Users	(OK)
	(OK)
Database Setup Preferences Help Logout	

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12. On the **Users** page, note the **Confirmation** message that appears and, directly above it, click **Database Instance**.

abase							
base I	instance: orcl >						Logged in A
Con	firmation						
The o	bject has been created	1 successfully					
rs							
							Object Type User
eard	h						
nter ar	object name	Database I	Instance: orcl	>			
Object	Name	00	<i>c</i> , , , ,				
		(i) (i)	tirmation				
	(30)						
v defaul	Go	2001	minicicion		c u histring, You ca	n use the wildcard symbol (%) in	a double guoted stripg.
y defaul	t, the search returns a	The c	bject has been	created succ	essfully hstring. You ca	n use the wildcard symbol (%) in	a double quoted string.
y defaul Selecti	t, the search returns a	The o	bject has been	created succ	essfully ^{histring, You ca}	n use the wildcard symbol (%) in	a double quoted string.
y defaul Selecti (Edit	t, the search returns a on Mode Single M View Delete Acti	The o	bject has been	created succ	essfully ^{histring, You co}	n use the wildcard symbol (%) in	a double quoted string. Cres Previous 1-25 of 39 Vext 3
y defaul Selecti (Edit Select	t, the search returns a on Mode Single ⊻ View Delete Acti UserName △		bject has been	Created SUCC	essfully hatring. You ca	n use the wildcard symbol (%) in © Profile	e double quoted string. Cress Previous 1-25 of 39 V Next 3 Created
y defau Gelecti CEdit Gelect	(30) t, the search returns c on Mode Single ▼ (View) Delete Acti UserName △ ANONYMOUS	Create Like Account Status EXPIRED & LOCKED	bject has been (<u>Go</u>) Expiration Date Jul 21, 2009 7:50:33 AM PDT	Default Tablespace	essfully Temporary Tablespace	n use the wildcard symbol (%) in Profile DEFAULT	e double quoted string. Crea Previous 1-25 of 39 V Next 3 Created Oct 15, 2007 10:36:34 AM PDT
y defaul Gelecti Gelect Gelect	t, the search returns a on Mode Single View Delete Acti UserName A ANONYMOUS APEX PUBLIC USER	Create Like Account Status EXPIRED & LOCKED EXPIRED & LOCKED	Bject has been Expiration Date Jul 21, 2009 7:50:33 AM PDT Jul 21, 2009 7:50:33 AM PDT	Default Tablespace	essfully Temporary Tablespace	n use the wildcard symbol (%) in Profile DEFAULT DEFAULT	a double quoted string. Creat Provious 1-25 of 39 International Interna
y defaul Gelecti Gelect Select	t, the search returns a on Mode Single View Delete Acti UserName A ANONYMOUS APEX PUBLIC USER BI	Account Status EXPIRED & LOCKED EXPIRED & LOCKED EXPIRED & LOCKED	Og Og Expiration Date Di 21, 2009 7:50:33 AM POT Dii 21, 2009 7:50:33 AM POT Dii 21, 2009 7:50:33 AM POT	Default Tablespace SYSAUX USERS	Essfully Temporary Tablespace	n use the wildcard symbol (%) in Profile DEFAULT DEFAULT DEFAULT	a double quated string. Created Providuat 1-25 of 39 V Mext J Created Oct 15, 2007 10:36:34 AM PDT Oct 15, 2007 11:36:44 AM PDT Oct 15, 2007 71:36:38 AM PDT
electi Edit Selecti	t, the seerch returns c on Mode Single V View Delete Acti UserName A ANONMOUS APEX PUBLIC USER BI CIXSYS	Create Like Account Status EXPIRED & LOCKED EXPIRED & LOCKED EXPIRED & LOCKED	Biget has been Spiration Date Jul 21, 2009 7:50:33 AM PDT	Default Tablespace SYSAUX USERS SYSAUX	Essfully Temporary Tablespace TEMP TEMP TEMP	n use the wildcard symbol (%) in Profile DEFAULT DEFAULT DEFAULT DEFAULT	a double quated string. Creat Providus 1-25 of 39 text 1 Created Oct 15, 2007 11:36:34 AM PDT Oct 15, 2007 11:36:44 AM PDT Jul 21, 2009 7:45:58 AM PDT Oct 15, 2007 10:36:40 AM PDT
electi Edit Selecti	(so) on Mode Single View Delete Arti UserName A ANCNMACUS APEX PUBLIC USER BI CTUSYS CSSIME	The construction of the second status expired a locked expired a locked expired a locked expired a locked open	Biget has been Expiration Date Jul 21, 2009 7:50:33 AM POT	Default Tablespace SYSAUX USERS USERS SYSAUX SYSAUX SYSAUX	Temporary Tablespace TEMP TEMP TEMP TEMP	n use the wildcard symbol (%) in Profile DEFAULT DEFAULT DEFAULT DEFAULT MONITORINS_PROFILE	a double quated string. Creat Created Oct 15, 2007 10:36:34 AM PDT Oct 15, 2007 11:06:44 AM PDT Jul 21, 2009 7:45:58 AM PDT Oct 15, 2007 10:36:40 AM PDT Oct 15, 2007 10:36:340 AM PDT Oct 15, 2007 10:36:340 AM PDT Oct 15, 2007 10:36:340 AM PDT
electi Edit Selecti	Go an Mode Single Acti UserName A ANONYMOUS APEX PUBLIC USER 81 CTXSYS DBSDMP DIP	Create Like Account Status EXPIRED & LOCKED EXPIRED & LOCKED EXPIRED & LOCKED EXPIRED & LOCKED OPEN EXPIRED & LOCKED	bject has been Ispiration Date Jul 21, 2009 7:50:33 AM PDT Jan 17, 2010 7:51:149 AM PST	Created Succ	essfully temporary Tablespace TEMP TEMP TEMP TEMP TEMP	nuse the wildcard symbol (%) in Profile DEFAULT DEFAULT DEFAULT DEFAULT DEFAULT DEFAULT DEFAULT DEFAULT DEFAULT	a double quated string. Creat Created Cot 15, 2007 10:36:34 AM PDT Cot 15, 2007 10:36:34 AM PDT Cot 15, 2007 10:36:34 AM PDT Lot 15, 2007 10:35:40 AM PDT Cot 15, 2007 10:33:30 AM PDT Cot 15, 2007 10:31:11:14 AM PDT
electi Edit Selecti	to o control of the search returns of the search	The construction of the second	Use Use Use	Created succ Default Tablespace SISAUX USERS SISAUX SISAUX SISAUX USERS SISAUX	essfully temporary Tablespace TEMP TEMP TEMP TEMP TEMP TEMP TEMP	Luse the wildcard symbol (%) in Profile OEFAULT OEFAULT OEFAULT DEFAULT MONITORINS_PROFILE DEFAULT DEFAULT OEFAULT	a double quarted string. Created Created Cot 15, 2007 10:36:34 AM POT Cot 15, 2007 11:36:44 AM POT Cot 15, 2007 11:36:44 AM POT Cot 15, 2007 10:36:34 AM POT Cot 15, 2007 10:36:30 AM POT Cot 15, 2007 10:36:33:30 AM POT Cot 15, 2007 10:36:33:30 AM POT Cot 15, 2007 10:36:33:44 AM POT Cot 15, 2007 10:36:34 AM POT Cot 15, 2007 10:36:34 AM POT
electi Edit Selecti	Go	The c The c The c Account Status EXPIRED & LOCKED EXPIRED & LOCKED EXPIRED & LOCKED EXPIRED & LOCKED EXPIRED & LOCKED EXPIRED & LOCKED	Use Use (35) Expiration Date (34) 2,2009 7:50:33 AM PDT	Created succ	essfully harring. You can temporary Tablespace TEAP TEAP TEAP TEAP TEAP TEAP	C Profile DEFAULT	a doùle quated string. Created Created Coci 15, 2007 10:36:34 AM POT Coci 15, 2007 11:36:44 AM POT Di 21, 2007 74:35:84 AM POT Coci 15, 2007 10:31:17 AM POT Coci 15, 2007 10:35:14 AM POT Coci 15, 2007 10:35:45 AM POT Coci 15, 2007 10:35 AM POT Coci 15, 2007 10:35 AM POT Coci 15, 2007 10:35 AM POT

Set the Number of Open Cursors

1. Calculate the required number of open cursors using this formula:

open_cursors = number of WinSPC licenses * 50

2. On the Server page again, under Database Configuration, click Initialization Parameters.

ORACLE Enterprise Manager 11g		Setup Preferences Hela Locout Database
Database Instance: orcl		Logged in As SYS
Home Performance Availability Server Schema	Data Movement Software and Support	
Storage Control Elias Tahlespaces Tamporary Tahlespace Groups Datafiles Bedra Log Migrate Do, ASM Make Tahlespace Locally Managed Make Tahlespace Locally Managed Statistics Management Automate: Workload Repository AMM: Baselona	Detabase Configuration Menora Automatic Undo Management Intialization arameters View Database View Database View Control Configuration Consumer Group Mapping Consumer Group Mapping Consumer Group Mapping Consumer Group Mapping Consumer Group Mapping Consumer Group Mapping	Oracle Scheduler Zda Chara Schedula Erogram Angene Moder Gouse
Query Optimizer Manage Cotimizer Statistics SOL Plan Control	Statistics Change Database Add Instance Delete Instance	Virtual Private Database Policies Application Contexts

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Database Control	Manager 11 g					Setup Pref	erence	s Help Logout Database
Database Instance: orcl	>						-	Logged in As SYS
Taitialization Deser					1	Show SQI		Revert Apply
Initialization Paral	neters							
Current SPElle								
The parameter values list	ed here are currently	used by the running instance(s). You can change static param	eters in SPFile mode.					
Name	Basic f	Modified Dynamic Category						
	All 💌	All 🗸 All 🗸 All	0)					
Filter on a name or partial nam	10							
Norma (h tetelesed	-tbr-t	la sur) Previou	1-50 of	288	Next 50 @
Name 🛆	Helpikevi	sions Value	Lomments	Туре	Basic Mo	dified by	nami	Luategory
audit_file_dest	D	C:\APP\ADMINISTRATOR\ADN		String		~	~	Auditing
audit_trail	Ð	DB		String		~		Security and Auditing
diagnostic_dest		C:\APP\ADMINISTRATOR		String		1	~	Miscellaneous
dispatchers	Ð	(PROTOCOL=TCP) (SERVICE=		String		~	~	Shared Server
compatible	D	11.1.0.0.0		String	~	1		Miscellaneous
control_files	٩	C:\APP\ADMINISTRATOR\ORADATA\ORCL\CONTROL02 C:\APP\ADMINISTRATOR\ORADATA\ORCL\CONTROL03 C:\APP\ADMINISTRATOR\ORADATA\ORCL\CONTROL01	сть', сть', сть'	String	*	*		File Configuration
db_block_size	Ð	8192		Integer	~	~		Memory
db_domain	Ð			String	~	~		Database Identification

This causes the Initialization Parameters page to appear.

3. On this page, scroll down until, in the **Name** column, you see **open_cursors** and, in this row's **Value** column, enter the number you calculated in step 1 of this section above.

memory_target		412M		Big	ar 🗸	1	-	Memory
open_cursors	D	300		Integ	ar 🧹		~	Cursors and Library Cache
processes				Integ	er 🗸	~		Processes and Sessions
remote_login_passwc				String	~	~		Security and Auditing
undo_tablespace			_	200				atic Undo ement
cluster_database	obeu	_cursors	<u></u>	300				ise
db_create_file_dest	Ð			String			~	File Configuration
db_create_online_log_dest_1	D			String	-		~	File Configuration
db_create_online_log_dest_2	D			String	-		-	File Configuration
instance_number	Ð	0		Integ	ar 🗸			Cluster Database
log_archive_dest_1	D			String	~		~	Archiving
log_archive_dest_2	Ð			String	-		~	Archiving
log_archive_dest_state_1	D	enable 💌		String	~		~	Archiving
log_archive_dest_state_2	D	enable 🖌		String	1		~	Archiving
nls_language	Ð	AMERICAN		String	1 1			NLS
nls_territory	Ð	AMERICA		String	1			NLS
pga_aggregate_target	D	0		Big	er 🗸		~	Hash Joins, Bitmap Indexes
remote_listener	Ð			String	-		~	Network Registration
rollback_segments	D			String	1			Automatic Undo

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4. Scroll back up to the top of the page and click **Apply**, noting the **Update Message** that appears as a result.

Database Control	e Manager 11 <i>g</i>					Setup	Preferenc	Database
Database Instance: ord	>					Show	SQL)	Logged in As S Revert (Appl
Update Messa The changes have b	ige been made successfully	. It may take a while before the changes take effect.						
Initialization Current			-		=(A	ppl	y)=
The parameter values lis						-		_
Name		Indate Message						
	~ <u>-</u>	paaroniossago						
-								
Apply changes in curr	rent runnin y mownwo(s) Houd to orme, non-static parameters, you must restart the database.				(Save to	File Show All
Apply changes in curr	rent runnin g mownco(s	y mode to on men numeratic parennetere, you muscreatere are oatabaar.) Previ	(ous 1-5	Save to	File) (Show All
∐Apply changes in curr Name △	rent runnin g misianco(s Help Revis	y mode lo arrier na sala, paralezara, you makriesia (re daabaara) iions value	Comments	Туре) Previ	(Dus 1-5 Modified	Save to 0 of 288 1 Dynam	File Show All
∐Apply changes in cun Name ∕ audit_file_dest	Help Revis	ions Value C:\PPP\CMINISTRATOR\CDN	Comments	Type) Previ	(Dus 1-5 Modified	Save to 0 of 288 1 Dynam	File Show All Next 50 Category Security and Auditing
L_Apply changes in curi	Help Revis	ions Value C:\APP\ACMIMISTRATOR\ACM DB	Comments	Type String String) Previ	(ous 1-5 Modified	Save to 0 of 288 1 Dynam	File Show All Next 50 ic Category Security and Auditing Security and Auditing
Apply changes in curr Name A audit_file_dest audit_trail diagnostic_dest	Help Revis	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Comments	Type String String String	⊙ Previt Basic ↑	(ous 1-5 Modified	Save to 0 of 288 Dynam	File Show All Next 50 (ic Category Security and Auditing Security and Auditing Miscellaneous
Apply changes in curi Name Audit_file_dest audit_trail diagnostic_dest dispatchers	Help Revis	inns/Value C:\u00e4PGANUSTRATOR\u00 C:\u00e4PGANUSTRATOR\u00 C:\u00e4PGANUSTRATOR (C:\u00e4PGANUSTRATOR (REOTOCCL=TCP) (SERVICE=	Comments	Type String String String	3 Previ	(ous 1-5 Modifier	Save to 0 of 288 1 Dynam	File Show All Next 50 ic Category Security and Auditing Security and Auditing Miscellaneous Shared Server
∐Apply changes in curr Name △ audit, frile_dest audit, trail diagnostic_dest dispatchers compatible	Help Revis	IIIIII Value C:\AFP\ACMIINISTRATOR\ACN D8 C:\AFP\ACMIINISTRATOR (PROTOCOL=TCP) (SERVICE= 11.1.0.0	Comments	Type String String String String	⊙ Previt Basic M	(cus 1-5 Modified	Save to 0 of 288 1 Dynam	File Show All <u>Vect 50</u> (c Category Security and Auditing Security and Auditing Miscellaneous Shared Server Miscellaneous

- 5. Click **Logout** in the top right corner of the **Oracle Enterprise Manager 11***g* page.
- 6. Close your browser.

Add the Local Net Service Name

 On the first client machine, launch Net Configuration Assistant, the default path for which is Start > All Programs > Oracle – OraClient11g_home1 > Configuration and Migration Tools > Net Configuration Assistant.

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2. In the **Oracle Net Configuration Assistant** prompt, on the **Welcome** prompt, select **Local Net Service Name configuration** and click **Next**.



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3. On the **Net Service Name Configuration** prompt, accept the **Add** default and click **Next**.

Oracle Net Configuration Ass	istant: Net Service Name Configuration
	To access an Oracle database, or other service, across the network you use a net service name. The Oracle Net Configuration Assistant allows you to work with net service names resolved using local naming.
	Select what you want to do:
,	Add
	O Reconfigure
	O Delete
	O Rename
	O Test
Cancel Help) G Back Next >

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4. On the **Net Service Name Configuration, Service Name** prompt, at **Service Name**, enter the service name assigned during the setup of Oracle 11g Database—which, by default, is the same as the global database name—and click **Next**. (If the default global database name, **ORCL**, was accepted during the setup of Oracle 11g Database, enter **ORCL** as the service name.)

Oracle Net Configuration Assist	ant: Net Service Name Configuration, Service Name	3
	Each Oracle database or service has a service name. An Oracle database's service name is normally its global database name. Enter the service name of the database or other service you want to access.	
	Service Name: ORCL	
Cancel Help	S Back Next ≫	-

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5. On the **Net Service Name Configuration, Select Protocols** prompt, select **TCP** and click **Next**.

Oracle Net Configuration Assistant: Net Service Name Configuration, Select Protocols
Image: Select the protocol used for the database you want to access. Image: Select the protocol used for the database you want to access. Image: Select the protocol used for the database you want to access.
Cancel Help <u>Sack Next S</u>

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6. On the **Net Service Name Configuration, TCP/IP Protocol** prompt, at **Host Name**, enter the name of the database server machine and click **Next**.

Oracle Net Configuration Assis	tant: Net Service Name Configu	ration, TCP/IP Protocol
	To communicate with the dat database computer's host na for the computer where the da	abase using the TCP/IP protocol, the me is required. Enter the host name atabase is located.
3	Host name:	TESTSERVER
	A TCP/IP port number is also standard port number should	required. In most cases the I be used.
	Use the standard port num	ber of 1521
	O Use another port number:	1521
Cancel Help	(«	Back Next >

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7. On the Net Service Name Configuration, Test prompt, select Yes, perform a test and click Next.



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8. On the **Net Service Name Configuration, Connecting** prompt, which indicates the test did not succeed, click the **Change Login** button.



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9. In the **Change Login** prompt, replace the default username and password with the username and password you created in step 3 of this chapter's **Create a Server Login** section and click **OK**.

Change Login 💽
Change Login
Username: JOHNDOE
Password: *******
OK Cancel

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10. On the **Net Service Name Configuration, Connecting** prompt, when the test is indicated as having succeeded, click **Next**.



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11. On the **Net Service Name Configuration, Net Service Name** prompt, at **Net Service Name**, rename the default net service name and click **Next**. (The suggested name is **WinSPC**.)



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Oracle Net Configuration Assistant:	Net Service Name Configuration, Another Net Service Name?
	Would you like to configure another net service name? [@] Νο Ο Yes
Cancel Help	G Back Next >

12. On the Net Service Name Configuration, Another Net Service Name prompt, accept the No default and click Next.

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13. On the Net Service Name Configuration Done prompt, click Next.

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Oracle Net Configuration Assistant:	Welcome
	Welcome to the Oracle Net Configuration Assistant. This tool will take you through the common configuration steps, listed below. Choose the configuration you would like to do: Clistener configuration Naming Methods configuration
	Local Net Service Name configuration
	C Directory Usage Configuration
Cancel Help	Sext Next S

14. On the Welcome prompt again, click Finish.

THIS COMPLETES PHASE 1 OF 4. GO TO THE NEXT PAGE AND COMPLETE PHASE 2.

Installation and Configuration Guide

Phase 2 of 4 FIRST CLIENT INSTALL AND CONFIGURATION (INITIAL STEPS)

This section concerns the installation and configuration of WinSPC on the first WinSPC client. (See the third assumption at the beginning of this chapter for a definition of the first WinSPC client.)



If your implementation employs Microsoft Terminal Services, see the discussion on page 1 of this guide for direction on whether to make your first client the Microsoft Terminal Services server or another computer.

Terminal Services

1. Create a folder on a network file server accessible by all client stations that will run WinSPC. This folder's primary purpose is to facilitate the installation and configuration of WinSPC on all clients other than the first client. (The recommended name for this folder is **WinSPCRemote**.)

- Share this folder and grant domain administrators at least the minimum required permissions to it. For file servers running Windows Server 2003, the minimum *Share* permissions are **Change** and the minimum *Security* permissions are **Modify**. For file servers running Windows Server 2008, the minimum *Share* permissions are **Contributor** and the minimum *Security* permissions are **Modify**. (For a procedure on granting *Share* or *Security* permissions, see **Appendix D: Granting Share and Security Permissions**.)
 - NOTE: If your WinSPC implementation is part of a workgroup rather than a domain, grant these minimum permissions to the local administrator who will install and configure WinSPC on the first WinSPC client machine.

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- 3. Log into Windows on the first WinSPC client machine as a domain administrator who also has local administrator privileges.
 - NOTE: If the first WinSPC client machine is part of a workgroup instead of a domain, log in as a local administrator.
- 4. If you downloaded Install.exe from winspc.com/downloads:
 - a. Transfer this file to the first WinSPC client if it was downloaded to a different computer.
 - b. Double-click the file.
 - c. If an **Open File Security Warning** prompt appears, click **Run**.
 - d. Go to step 6.

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- 5. If you have the WinSPC CD (whether as a result of receiving it from DataNet Quality Systems or burning it from the **WinSPC.iso** file at <u>winspc.com/downloads</u>) and you did not complete the preceding step:
 - a. Insert and run the CD.
 - b. On the **WinSPC Version 8.0** setup prompt that appears, click **Install or Upgrade**.

Version 8 STATISTICAL PROCESS CONTROL	Close X
 What's New ReadMe Installation & Configuration Guide Upgrade Instructions 	Install or Upgrade
Need Help? Dial 866.4WINSPC or 2	248.447.0140 www.winspc.com

c. Go to step 6.



- 6. Complete the WinSPC Installation Wizard.
 - NOTE: The prompts of this wizard are intended to be selfexplanatory. Consequently, they are not detailed here. If you have a question about a prompt or want to be directed step-by-step through the wizard, see **Appendix A: The WinSPC Installation Wizard**.
- 7. Complete **Appendix B: Installing NJWin for an Asian Language** if the first client machine will need to run WinSPC in an Asian language or you would like to run the WinSPC Configuration Wizard in an Asian language. (The WinSPC Configuration Wizard is the tool you will use next in this first client configuration process.)
- 8. If you installed WinSPC from a CD, exit the **WinSPC Version 8.0** setup prompt by clicking **Close** in the upper right corner and remove the WinSPC CD from the CD-ROM drive.
- 9. Click **Start > All Programs > WinSPC > WinSPC.** This launches the WinSPC Configuration Wizard.

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10. On the **Language** prompt, from the **Select language** list, choose a language and click **Next**.



NOTE: The language selected here is the language in which the remainder of the WinSPC Configuration Wizard will run. It also becomes the system-wide default language for WinSPC. (This default language can be changed at any time following the completion of the WinSPC Configuration Wizard. Once the configuration of the first WinSPC client is complete, you can see the **WinSPC Help** for more information on default languages.)

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WinSPC Configuration V	Vizard	X
WINSPC	Database Server Type Microsoft SQL Server 2005 Microsoft SQL Server 2005 Express Microsoft SQL Server 2008 Microsoft SQL Server 2008 Express Oracle Database 10g Oracle Database 11g	
	< <u>B</u> ack Next > Car	icel

11. On the **Database Server Type** prompt, select **Oracle Database 11***g* and click **Next**.

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- 12. On the **Oracle Server Settings** prompt:
 - a. At Path of TNSNAMES.ORA, accept the default location.
 - b. In the **Database Alias** text box, enter the **Net Service Name** you chose in step 11 of this chapter's **Add the Local Net Service Name** section.
 - c. At **Oracle Driver**, leave the default **OCI.DLL** selected.
 - d. Click Next.

WinSPC Configuration \	Vizard 💌
WINSPC ⁻	Oracle Server Settings Enter the full path name for the location where your TNSNAMES.ORA file resides.
	Path of TNSNAMES.ORA: C:\app\DomainAdmin\product\11.1.0\client_1\network\ Browse
	Enter the SQL*Net alias of your database.
	Database Alias: WinSPC
	(e.g., WinSPC)
	< <u>B</u> ack Next > Cancel

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13. On the Database Server Log In prompt, enter the tablespace login User Name and Password created in step 3 of this chapter's Create a Server Login section and click Next.

WinSPC Configuration	Wizard 🗾
WINSPC ⁻	Database Server Log In Enter the user name and password that you want WinSPC to use when logging into your database server.
	User Name: <mark>JOHNDOE</mark> (e.g., JOHNDOE) Password:
	(e.g., password)

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14. On the Database Communications Test prompt, click Next.

In the event the test fails:

If the error message displayed reads ORA-12154: TNS:could not resolve the connect identifier specified, click the Back button three times and reenter the database alias, ensuring you have the correct name and that it is spelled correctly. Once you've reentered this information, advance through the WinSPC Configuration Wizard again by clicking Next, verifying the information on each prompt as you do.

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- If the error message reads ORA-01017: invalid username/password; logon denied, click the Back button twice and reenter the server user name and password, ensuring you have the correct user name and password and that these are spelled correctly. Also, since passwords are case sensitive, ensure the appropriate capitalization is used for the password. Once you've reentered this information, advance through the WinSPC Configuration Wizard again by clicking Next, verifying the information on each prompt as you do.
- 15. On the **Database Creation** prompt, click **Next**. This creates the WinSPC schema within the WinSPC database.

WinSPC Configuration	Wizard 💽
WINSPC	Database Creation A new, empty, WinSPC database will now be created on your database server. Your database server has the following characteristics:
	Database Type: Oracle Database 11g Database Name: WinSPC
	Press Next to continue.
	< <u>B</u> ack Next > Cancel

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TO. Anow the prompt's progress bar to complete	16.	Allow	the	prompt's	s progress	bar to	complete
--	-----	-------	-----	----------	------------	--------	----------

WinSPC Configuration	Wizard	
WINSPC	Database Creation A new, empty, WinSPC databa your database server. Your dat following characteristics:	se will now be created on tabase server has the
	Database Type: Oracle Datal Database Name: WinSPC	base 11g
	Progress	
	< <u>B</u> ack N	lext > Cancel

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- 17. If you selected a language other than English in step 10 of this section, an **Add Language** prompt appears once the WinSPC schema is created. In this case:
 - a. Insert the language disk for the selected language into your floppy drive and click the OK button. (Language disks are included in your WinSPC materials. If you didn't order a language disk and, consequently, did not receive one, click the Cancel button and complete the WinSPC Configuration Wizard without adding the language. Later, you can order the language disk and, once the disk arrives, add the language using the Add Language option on the Administrator window's Tools menu in WinSPC. Until the language is added, you'll be restricted to running WinSPC in English. The remainder of the WinSPC Configuration Wizard continues to run in the selected language whether or not a language is added from a language disk.)
 - b. In the message asking if you want to proceed with the addition of the detected language, click **OK**.
 - c. If a message indicating the detected language has already been installed appears, click **OK**.
 - d. Allow the Adding New Language progress bar to complete.
 - e. When the You may now select the desired language in the System Settings, Station Setup, or User Setup message appears, click OK.
 - f. If the Add Language prompt reappears, click Cancel.
 - g. Remove the language disk from the floppy drive.

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THIS COMPLETES PHASE 2 OF 4.

GO TO **CHAPTER 4: FIRST CLIENT CONFIGURATION (FINAL STEPS)** AND COMPLETE PHASE 3.

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CHAPTER 4: FIRST CLIENT CONFIGURATION (FINAL STEPS)

This chapter consists of the final steps to configure the first WinSPC client. With a few exceptions, these steps are common to all database servers. They begin midway through the WinSPC Configuration Wizard, just after the creation of the WinSPC schema.

- 1. On the Remote Configuration Image Directory prompt:
 - a. Click the Browse button.
 - b. In the Directory Selection prompt that opens, navigate to and select the shared folder created for WinSPC, then click OK. This closes the Directory Selection prompt and populates the Directory text box of the Remote Configuration Image Directory prompt with the network path to the shared folder.
 - NOTE: The shared folder referred to here is the one created in step 1 of the **First Client Install and Configuration** (**Initial Steps**) section you completed prior to coming to this chapter.

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c. Click Next.

WinSPC Configuration V	Vizard	X
WINSPC	Remote Configuration Image Directory Enter the directory where you want the rest of the WinSPC work-stations to be configured from. This directory must be accessible to all stations.	
	Directory: Browse.	
	NOTE: If installing for single user operation, use C:\Program Files\DQS\WinSPC\Remote. Otherwise, a valid network path.	. use
	< <u>B</u> ack Next > Cano	el

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2. On the **Remote Configuration Image Copy** prompt, click **Next.** This copies the necessary files to the shared folder.



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3. Allow the prompt's progress bar to complete.



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4. On the **Custom Web Reporter Setup** prompt, if you want to install Custom Web Reporter on the first client or you think you may, at some point, want to install and run it on an additional client, click **Next.** Otherwise, click **Skip** and advance to step 8 of this procedure.



Custom Web Reporter is an advanced analytics and web reporting package that can be used with WinSPC. A free 60-day license for it comes with the purchase of WinSPC. For information on purchasing permanent licenses, contact DataNet Quality Systems at 1-866-4WINSPC.

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5. On the **Statit(r) Licensing Information** prompt, read the license agreement and, if you agree, click **I Agree**.

Statit(r) Licensing Information				
Statit Gustom QC Statit Gustom QC Statit QC	LICENSE AGREEMENT AND LIMITED WARRANTY Please carefully read this agreement before using the software being provided to you by Statware, Incorporated. Using the software indicates your acceptance of this agreement. If you do not agree to all of the terms and conditions of this license, you must discontinue use of the software, removing any content installed on your system(s), and returning any media, packaging and accompanying items (including written materials) within 30 days of your purchase. You must also include a letter confirming that you have discontinued use of the software and are requesting a refund. On meeting these obligations, your money will be refunded. In consideration of the payment of the per copy license fee, Statware, Incorporated ("Statware") grants to you a license to use the Software under the following terms and conditions. 1. DEFINITIONS. a. "Software" refers to the software accompanying this License together with all accompanying documentation and manuals and any updates and future software provided to you by Statware or a Statware authorized reseller. b. "You" means the corporation, partnership or individual which or who	4 III •		

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6. On this **Custom Web Reporter Setup** prompt, click **Next**. This installs Custom Web Reporter on the first client and copies the installation files for Custom Web Reporter to the shared folder.



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7. Allow the prompt's progress bar to complete.

WinSPC Configuration W	/izard
CUSTOM WEB REPORTER	Custom Web Reporter Setup Custom Web Reporter will now be installed for use with WinSPC.
	Progress

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8. On the **System Administrator Password** prompt, create and enter a sufficiently strong, case-sensitive password for the WinSPC **Admin** user in both the **Password** and **Confirm Password** text boxes. Then, click **Next**.

WinSPC Configuration	Wizard 💌		
WINSPC	System Administrator Password An administrator user has been created for you. If you choose, you may assign a password to restrict access to this user login.		
	User Name: Admin Password: Confirm Password:		
	< <u>B</u> ack Next > Cancel		

NOTE: This **Admin** user is the only user with complete WinSPC permissions.

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9. On the **Finished** prompt that appears, click **Finish**. This causes the WinSPC Configuration Wizard to close.

WinSPC Configuration W	lizard	X
WINSPC	Finished! This completes the installation of WinSPC.	
	< <u>B</u> ack Finish Car	ncel

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WinSPC Access Center	r - Station:	CLIENT	L
<u>U</u> ser Name: 			Log In
	E <u>x</u> it		<u>H</u> elp <u>A</u> bout

It also causes the **WinSPC Access Center** to open.

- 10. In the Access Center, click the Exit button.
- 11. If your first client is the Microsoft Terminal Services server:
 - a. Navigate to and double-click winspc.ini. The default installation location for this file is C:\Program Files > DQS > WinSPC > winspc.ini.
 - b. Insert a blank line directly below this file's [System] heading.



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c. On that line, enter **TerminalServices=1**. This informs WinSPC at startup that the environment is a Microsoft Terminal Services environment.



d. Indicate whether WinSPC is to name stations based on the connecting *station* or the connecting *user*. This is done by specifying either *station* mode or *user* mode as the mode in which WinSPC is to run. In station mode, WinSPC uses the ID of the station RDPing into the Microsoft Terminal Services server as the station name. In user mode, WinSPC uses the ID of the user (i.e. the login ID with which a user logs into Windows on the Microsoft Terminal Services server via a RDP session) as the station name. For example, say *Bob* logs into a

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station named *Finishing* and then, via RDP, logs into the Microsoft Terminal Services server as *Sally*. With station mode enabled, WinSPC will use *Finishing* as the station name. With user mode enabled, WinSPC will use *Sally* as the station name. Station mode is the default mode in which WinSPC runs and, consequently, nothing needs to be done to enable it. To enable user mode, directly beneath the **TerminalServices=1** line entered in the preceding step, enter a **UserMode=1** line.

- NOTE: To disable user mode in the future and have WinSPC run in station mode, delete the UserMode=1 line or change it to UserMode=0.
- e. If you enabled user mode in the preceding step, configure Microsoft Terminal Services to disallow simultaneous sessions from a user. To do this:
 - On the Microsoft Terminal Services server, launch Terminal Services Configuration, the default path for which in Windows Server 2003 is Start > All Programs > Administrative Tools > Terminal Services Configuration.
 - ii. In the left pane of the **Terminal Services Configuration** prompt, single-click the **Server Settings** folder.
 - iii. In the right pane, right-click Restrict each user to one session and, from the shortcut menu that appears, click Yes.
 - iv. Close Terminal Services Configuration.
- f. Save and close winspc.ini.

- NOTE: The remaining steps of this procedure concern granting permissions for users of WinSPC on the first client. The permissions granted by these steps are the minimum permissions required to run WinSPC. These steps assume your WinSPC implementation employs network domains. If your implementation employs workgroups, instead of completing these steps, complete **Appendix C: WinSPC Security for Workgroups**.
- 12. If you are logged into Windows on the first WinSPC client machine as anything other than a domain administrator, log out and log back in as a domain administrator. (This is necessary because you will be creating a user group for WinSPC users on the domain controller.)
- 13. Navigate to the shared folder created for WinSPC and, within this folder's **Utility** folder, double-click **WinSPCSecurity**.

💓 WinSPCSecurity

14. In the **WinSPC Security** utility that launches, toward the bottom of the **Groups** tab, at **Group Name**, enter a name for a user group that will consist of WinSPC users. (The recommended name for this user group is **WinSPC Users**.)

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inSPC Security - TESTDOMAIN	×
Groups Users	_
The following is a list of all user groups that exist within your Windows domain. Users that are members of one of the checked groups have all the necessary permissions to run WinSPC. Click the check boxes next to the items to grant WinSPC permissions to additional groups or to remove WinSPC permissions from groups.	
 TESTDOMAIN\DnsUpdateProxy TESTDOMAIN\Domain Admins TESTDOMAIN\Domain Computers TESTDOMAIN\Domain Guests TESTDOMAIN\Domain Users TESTDOMAIN\Enterprise Admins TESTDOMAIN\Group Policy Creator Owners TESTDOMAIN\Schema Admins 	
Group Name:	
WinSPC Users Create New Group Apply Updates	

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15. Click the Create New Group button.

Create New Group

This causes the user group to be added to the list of groups above and creates the user group on the domain controller.

16. Check the check box for the new user group.

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Inspec Security - TESTDOMAIN		
Inoups Users Inoups Users The following is a list of all user groups that exist within your Windows domain. Users that are members of one of the checked groups have all the necessary permissions to run WinSPC. Click the check boxes next to the items to grant WinSPC permissions to additional groups or to remove WinSPC permissions from groups. TESTDOMAIN\DonsupdateProxy TESTDOMAIN\Domain Computers TESTDOMAIN\Domain Computers TESTDOMAIN\Domain Guests TESTDOMAIN\Domain Guests TESTDOMAIN\Schema Admins TESTDOMAIN\Domain Guests TESTDOMAIN\Schema Admins TESTDOMAIN\Schema Admins	ISPC Security - TESTDOMAIN	3
The following is a list of all user groups that exist within your Windows domain. Users that are members of one of the checked groups have all the necessary permissions to run WinSPC. Click the check boxes next to the items to grant WinSPC permissions to additional groups or to remove WinSPC permissions from groups. TESTDOMAIN\DnsUpdateProxy TESTDOMAIN\Domain Admins TESTDOMAIN\Domain Computers TESTDOMAIN\Domain Computers TESTDOMAIN\Domain Controllers TESTDOMAIN\Domain Controllers TESTDOMAIN\Domain Controllers TESTDOMAIN\Domain Guests TESTDOMAIN\Schema Admins TESTDOMAIN\Schema Admins TESTDOMAIN\Schema Admins TESTDOMAIN\Schema Admins TESTDOMAIN\WinSPC Users	iroups Users	-
TESTDOMAIN\DnsUpdateProxy TESTDOMAIN\Domain Admins TESTDOMAIN\Domain Computers TESTDOMAIN\Domain Controllers TESTDOMAIN\Domain Guests TESTDOMAIN\Concup Policy Creator Owners TESTDOMAIN\Schema Admins TESTDOMAIN\WinSPC Users	The following is a list of all user groups that exist within your Windows domain. Users that are members of one of the checked groups have all the necessary permissions to run WinSPC. Click the check boxes next to the items to grant WinSPC permissions to additional groups or to remove WinSPC permissions from groups.	
TESTDOMAIN\WinSPC Users	TESTDOMAIN\DnsUpdateProxy TESTDOMAIN\Domain Admins TESTDOMAIN\Domain Computers TESTDOMAIN\Domain Controllers TESTDOMAIN\Domain Guests TESTDOMAIN\Domain Users TESTDOMAIN\Domain Users TESTDOMAIN\Enterprise Admins TESTDOMAIN\Enterprise Admins TESTDOMAIN\Group Policy Creator Owners TESTDOMAIN\Schema Admins	
Group Name:		-
	Group Name:	
WinSPC Users Create New Group Apply Undates	WinSPC Users Create New Group Apply Updates	

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17. Click the Apply Updates button.

Apply Updates

This causes an Applying Permissions progress bar to appear.



- 18. When the **Applying Permissions** progress bar closes, close the **Security Utility** by clicking the X in the upper right corner.
- 19. Close the window showing the contents of the Utility folder.
- 20. Grant the user group for WinSPC users at least the minimum required permissions to the shared folder. For file servers running Windows Server 2003, the minimum *Share* permissions are **Change** and the minimum *Security* permissions are **Modify**. For file servers running Windows Server 2008, the minimum *Share* permissions are **Contributor** and the minimum *Security* permissions are **Modify**. For servers are **Modify**. For a procedure on granting permissions, see **Appendix D: Granting Share and Security Permissions**.
- 21. On your domain controller, add all local administrators who will install and configure WinSPC on additional clients and all domain users who, on any client, will be running WinSPC to the newly created user group. For a procedure on adding users to a user group, see **Appendix E: Adding Users to a User Group**.

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THIS COMPLETES PHASE 3 OF 4.

GO TO **CHAPTER 5: ADDITIONAL CLIENT INSTALLS AND CONFIGURATIONS** AND COMPLETE PHASE 4.

IF YOU DON'T NEED TO INSTALL AND CONFIGURE WINSPC ON ADDITIONAL CLIENTS, THIS CONCLUDES THE ENTIRETY OF THE SETUP REQUIRED TO BEGIN USING WINSPC. FOR INSTRUCTIONS ON LAUNCHING AND LOGGING INTO WINSPC, SEE **APPENDIX F: LAUNCHING AND LOGGING INTO WINSPC**.

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CHAPTER 5: ADDITIONAL CLIENT INSTALLS AND CONFIGURATIONS

If your WinSPC implementation utilizes the conventional client/server architecture exclusively, meaning it does not employ Microsoft Terminal Services at all, complete the procedure in this chapter on each additional client station that is to run WinSPC.

If your implementation utilizes Microsoft Terminal Services exclusively, meaning all client stations other than the Microsoft Terminal Services server connect to the WinSPC database through the Microsoft Terminal Services server, it is not necessary to complete the procedure in this chapter.

If your implementation employs a mix of the conventional client/server architecture and a Microsoft Terminal Services architecture, complete this chapter for any client station that will be connecting to the WinSPC database directly rather than through the Microsoft Terminal Services server. This includes completing the procedure on the Microsoft Terminal Services server itself if WinSPC was not installed on this server as part of the first client configuration.

- 1. Log into Windows on the additional client machine as a local administrator.
- 2. Using Windows Explorer, navigate to the shared folder created for WinSPC and double-click **WinSPC.exe**.

WinSPC

3. Complete the WinSPC Installation Wizard. For detailed information on this prompt, see Appendix A: The WinSPC Installation Wizard.

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Terminal Services

Phase 4 of 4

- 4. Launch and exit WinSPC once while logged into Windows as a local administrator. To do this:
 - a. Click **WinSPC**. The default path for this is **Start > All Programs > WinSPC**.
 - b. In the **WinSPC Access Center** that appears, click the **Exit** button.

WinSPC Access Center	- Station:	CLIENT2	
User Name: Password:			Log In <u>R</u> eturn
	E <u>x</u> it		<u>H</u> elp <u>A</u> bout

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- 5. If you don't want to install Custom Web Reporter on the additional client, go to step 6. If you want to install Custom Web Reporter:
 - a. Navigate to the shared folder for WinSPC.
 - b. In the shared folder's **STATIT** subfolder, double-click **CustomQC5410EM.exe**. When the **Installing** progress bar that appears closes, the Custom Web Reporter installation is complete.

Installing	×
Copying file: C:\Program Files\Statit 5.41\hyperhelp\cpmdsktp.hlp	
13%	
Cancel	

- NOTE: For the **STATIT** subfolder to exist in the shared folder, Custom Web Reporter must have been installed during the first client configuration. If this was not the case and you want to install Custom Web Reporter on the additional client, contact DataNet Quality System's Product Support Help Desk at (248)-447-0140.
- 6. If the additional client is your Microsoft Terminal Services server:
 - a. Navigate to and double-click winspc.ini. The default installation location for this file is C:\Program Files > DQS > WinSPC > winspc.ini.



b. Insert a blank line directly below this file's [System] heading.

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c. On that line, enter **TerminalServices=1**. This informs WinSPC at startup that the environment is a Terminal Services environment.



d. Indicate whether WinSPC is to name stations based on the connecting *station* or the connecting *user*. This is done by specifying either *station* mode or *user* mode as the mode in which WinSPC is to run. In station mode, WinSPC uses the ID of the station RDPing into the Microsoft Terminal Services server as the station name. In user mode, WinSPC uses the ID of the user (i.e. the login ID with which a user logs into Windows on the Microsoft Terminal Services server via a RDP session) as the station name. For example, say *Bob* logs into a

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station named *Finishing* and then, via RDP, logs into the Microsoft Terminal Services server as *Sally*. With station mode enabled, WinSPC will use *Finishing* as the station name. With user mode enabled, WinSPC will use *Sally* as the station name. Station mode is the default mode in which WinSPC runs and, consequently, nothing needs to be done to enable it. To enable user mode, directly beneath the **TerminalServices=1** line entered in the preceding step, enter a **UserMode=1** line.

- NOTE: To disable user mode in the future and have WinSPC run in station mode, delete the **UserMode=1** line or change this line to **UserMode=0**.
- e. If you enabled user mode in the preceding step, configure Microsoft Terminal Services to disallow simultaneous sessions from a user. To do this:
 - On the Microsoft Terminal Services server, launch Terminal Services Configuration, the default path for which in Windows Server 2003 is Start > All Programs > Administrative Tools > Terminal Services Configuration.
 - ii. In the left pane of the **Terminal Services Configuration** prompt, single-click the **Server Settings** folder.
 - iii. In the right pane, right-click Restrict each user to one session and, from the shortcut menu that appears, click Yes.
 - iv. Close Terminal Services Configuration.
- f. Save and close winspc.ini.

- 7. Complete **Appendix B: Installing NJWin for an Asian Language** if the additional client machine will need to run WinSPC in an Asian language.
- NOTE: The remaining steps of this procedure concern granting permissions for WinSPC users on the additional client machine. The permissions granted are the minimum permissions required to run WinSPC. These steps assume your WinSPC implementation employs network domains. If your implementation employs workgroups, instead of completing these steps, complete **Appendix C: WinSPC Security for Workgroups**.

(These steps and Appendix C can be disregarded if every user of the WinSPC client has local administrator privileges on the client machine. In such a case, close the WinSPC shared folder and see **Appendix F: Launching and Logging Into WinSPC** to begin using WinSPC.)

8. Within the WinSPC shared folder, double-click **Utility > WinSPCSecurity**.

💓 WinSPCSecurity

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9. In the message indicating the application (i.e. security utility) may not run properly if you are not logged into Windows as an administrator, click **Yes**. (The administrator referred to in this message is a domain administrator. Being logged in as a local administrator, however, is sufficient for the remainder of this procedure.)

Error	
	This application may not run properly if you are not logged into Windows as the administrator. Do you wish to continue?
	<u>Yes</u> <u>N</u> o

 In the WinSPC Security utility, on the Groups tab, check the check box that corresponds to the name of the user group created for WinSPC users. This name was entered in step 14 of Chapter 4: First Client Configuration (Final Steps).

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NinSPC Security - TESTDOMAIN
Groups Users
The following is a list of all user groups that exist within your Windows domain. Users that are members of one of the checked groups have all the necessary permissions to run WinSPC. Click the check boxes next to the items to grant WinSPC permissions to additional groups or to remove WinSPC permissions from groups.
TESTDOMAIN\DnsUpdateProxy TESTDOMAIN\Domain Admins TESTDOMAIN\Domain Computers TESTDOMAIN\Domain Controllers TESTDOMAIN\Domain Guests TESTDOMAIN\Domain Users TESTDOMAIN\Enterprise Admins TESTDOMAIN\Centerprise Admins TESTDOMAIN\Schema Admins TESTDOMAIN\Schema Admins
Group Name:
Create New Group Apply Updates

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11. Click the **Apply Updates** button.

Apply Updates

This causes an Applying Permissions progress bar to appear.



- 12. When the **Applying Permissions** progress bar closes, close the **Security Utility** by clicking the X in its upper right corner.
- 13. Close the window showing the contents of the Utility folder.
- 14. If the additional client station will be used by any users who were not added to the user group for WinSPC users created during the first client configuration process, go to the domain controller and add them. (For a procedure on adding users to a user group, see **Appendix E: Adding Users to a User Group**.)

THIS COMPLETES PHASE 4 OF 4.

NO FURTHER SETUP IS REQUIRED TO BEGIN USING WINSPC. FOR INSTRUCTIONS ON LAUNCHING AND LOGGING INTO WINSPC, SEE APPENDIX F: LAUNCHING AND LOGGING INTO WINSPC.

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APPENDIX A: THE WINSPC INSTALLATION WIZARD

This appendix details the prompts encountered in the WinSPC Installation Wizard.

1. On the first prompt of the WinSPC Installation Wizard, click Next.



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2. If a **License Agreement and Limited Warranty** prompt is displayed—which will be the case when the WinSPC Installation Wizard is being run on the first WinSPC client—read the agreement and, if you accept its terms, click **Yes**.

🖪 WinSPC Installation Wizard	x
License Agreement and Limited Warranty	
LICENSE AGREEMENT AND LIMITED WARRANTY IMPORTANT Carefully read the following terms and conditions of this License Agreement and Limited Warranty ("Agreement") prior to opening, installing, copying or using the accompanying software program(s), associated media or printed documentation (collectively referred to as the "Software Product"). If you do not agree with the terms and conditions contained herein, promptly return all components of the Software Product to the place of purchase or to DataNet Quality Systems ("DataNet"). By opening, installing, copying or using the Software Product, you agree to be bound by the terms and conditions of this Agreement.	
Click Yes if you accept the terms of the license agreement and limited warranty. Click No to close the WinSPC Installation Wizard	

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3. On the **Installation Folder** prompt, accept the default installation folder and click **Next** or click **Browse**, select a different folder and click **Next**. (The installation folder is the folder into which WinSPC will be installed.)

🕼 WinSPC Installation Wizard		×
Installation Folder		Ó
Installation Folder		
C:\Program Files\DQS\WinSPC		Browse
To Change the folder into which WinSPC wi to and double-click the desired installation fo	I be installed, click the Browse Ider	button, navigate
Wise Installation Wizard®		
	< <u>B</u> ack <u>N</u> ext>	Cancel

Installation and Configuration Guide

🖅 WinSPC Installation Wizard	
Install WinSPC	I all a construction of the construction of th
Thank you. That is all the information required to install	WinSPC. Click Next to continue.
Wise Installation Wizard® < <u>B</u> a	ck Next> Cancel

4. On the Install WinSPC prompt, click Next.

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5. Allow the installation to occur.

WinSPC	
Installing	
Current File	
Copying file: C:\Program Files\DQS\WinSPC\Rave\RvGra	phics70.bpl
All Files	
Time Remaining 0 minutes 30 seconds	
Wise Installation Wizard®	
	< Back Next > Cancel

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6. When the installation completes, click **Finish**.

THIS COMPLETES APPENDIX A.

RETURN TO AND COMPLETE THE **FIRST CLIENT INSTALL AND CONFIGURATION (INITIAL STEPS)** SECTION OF THE CHAPTER YOU WERE ON BEFORE COMING TO THIS APPENDIX.

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APPENDIX B: INSTALLING NJWIN FOR AN ASIAN LANGUAGE

Complete this appendix if you want to run WinSPC or the WinSPC Configuration Wizard in an Asian language on a client machine that is running a Romance-language version of Microsoft Windows.

As you may know, Microsoft Windows is available in several sets of languages. One of these sets is the Romance set, a set which includes the English language. When some non-Romance language translations of WinSPC, Asian language translations particularly, are run on a Romance-language version of Windows, the characters of the WinSPC translation are improperly displayed. Installing and running NJWin remedies this for an Asian language. (The East Asian language set of Microsoft Windows may not require NJWin.)

For your convenience, a trial version of NJWin is included on the WinSPC CD. If you install and like this trial version, you can purchase a license at <u>www.njstar.com</u>.

- 1. Copy the NJWin executable to the WinSPC shared folder. To do this:
 - a. If you downloaded your WinSPC Version 8 installation materials from <u>www.winspc.com</u>:
 - i. Right-click the downloaded zip file and select **WinZIP** > **Open with WinZIP**.
 - ii. In the **WinZIP** window that appears, single-click the **Name** heading at the top of the **Name** column. This lists the files in the column in descending alphabetical order.
 - iii.Scroll down the Name column until you locate the njwin183.exe file.

Installation and Configuration Guide

- iv. Right-click this file and select Copy.
- v. Navigate to the shared folder for WinSPC.
- vi. Right-click this folder and select Paste.
- b. If you received your WinSPC Version 8.0 materials on CD:
 - i. With the CD in your CD-ROM drive, right-click **Computer** (Vista) or **My Computer** (XP) and click **Explore**.
 - ii. In the window that appears, right-click your CD-ROM drive and click **Explore**.
 - iii.Double-click the Extra Files folder.
 - iv. Double-click the NJWin folder.
 - v. Right-click njwin183.exe and select copy.
 - vi. Navigate to the WinSPC shared folder.
 - vii.Right-click the shared folder and select Paste.
- NOTE: Completing this step (i.e. 1a or 1b), which eliminates the need to bring the WinSPC CD to each client machine on which NJWin is to be installed, only needs to be done once.
- 2. From a client machine on which you want to install NJWin, navigate to the shared folder and double-click **njwin183.exe**.

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3. When the **Welcome** prompt of the NJWin setup wizard appears, click **Next**.



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4. Read the License Agreement and, if you agree, click Next.



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5. Specify the folder to which you want the NJWin application files copied and click **Next**.



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6. When the **Ready** prompt appears, click **Next**. This installs NJWin.

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- Image: NJWIN NJStar CJK Viewer 1.83 Shareware Setup

 Image: NJWIN NJStar CJK Viewer Viewer was successfully set up on your computer.

 Image: NJWIN NJStar CJK Viewer was successfully set up on your computer.

 Image: NJWIN NJStar CJK Viewer was successfully set up on your computer.

 Image: NJWIN NJStar CJK Viewer was successfully set up on your computer.

 Image: NJWIN NJStar CJK Viewer was successfully set up on your computer.

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 Image: NJWIN NJStar CJK Viewer was successfully set up on your computer.

 Image: NJWIN NJStar CJK Viewer was successfully set up on your computer.

 Image: NJWIN NJStar CJK Viewer was successfully set up on your co
- 7. On the Setup was successful prompt, click Close.

Installation and Configuration Guide

8. On the NJWIN – NJStar CJK Viewer prompt that is displayed, select the Asian language in which you intend to run WinSPC (or the WinSPC Configuration Wizard) and click OK. This closes the viewer and launches NJWin. (See the First Client Install and Configuration (Initial Steps) section of the chapter specific to your database server for information on the WinSPC Configuration Wizard.)

NJWIN - NJStar CJK Viewer 💦 🔀
Please select your defaut language:
Chinese Simplified
C Chinese Traditional
C Japanese
C Korean
ОК

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9. Close the NJWin – NJStar CJK Viewer folder.

10. Close the WinSPC shared folder.

NOTE: NJWin must be running when WinSPC is running for WinSPC to properly display Asian language characters. If the operating system of the client machine on which NJWin is installed is Windows XP Pro and the default storage location was accepted during the installation procedure, NJWin can be launched by clicking Start > All Programs > NJWIN – NJStar CJK Viewer > NJWIN – NJStar CJK Viewer. Alternatively, WinSPC can be set up to launch NJWin automatically. This is accomplished through the Use NJWin check box, a check box found on the setup prompts for system settings, station groups, stations, user groups and users. See WinSPC's Help for more information on this check box. (If you're ever in doubt as to whether or not NJWin is running, press <Ctrl+Alt+Del> and check the Applications tab of the Task Manager.)

THIS COMPLETES APPENDIX B.

RETURN TO AND COMPLETE THE PROCEDURE YOU WERE WORKING ON PRIOR TO COMING TO THIS APPENDIX.

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APPENDIX C: WINSPC SECURITY FOR WORKGROUPS

This appendix details the procedure for granting permissions to WinSPC users on a client machine that is part of a workgroup as opposed to a domain. The permissions granted are the minimum permissions required to run WinSPC. It is to be completed after step 11 of **Chapter 4: First Client Configuration (Final Steps)** or after step 7 of **Chapter 5: Additional Client Installs and Configurations**.

- 1. Navigate to the WinSPC shared folder created during the installation and configuration of the first WinSPC client.
- 2. Double-click the **Utility** folder.
- 3. Within the Utility folder, double-click the WinSPCSecurity icon.

WinSPCSecurity

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4. If an error message indicating the application (i.e. security utility) may not run properly if you are not logged into Windows as an administrator appears, click **Yes**. (The administrator referred to in this message is a domain administrator. Being logged in as a local administrator, however, is sufficient for this procedure.)

Error	
	This application may not run properly if you are not logged into Windows as the administrator. Do you wish to continue?
	<u>Yes</u> <u>N</u> o

5. In the **WinSPC Security** utility that appears, on the **Users** tab, click the **Refresh User List** button.

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Groups Us	ers		1	
The followin within your \ necessary p the items to remove Win	he following is a list of all users that exist on this local machine and within your Windows domain. Users that are checked have all the necessary permissions to run WinSPC. Click the check boxes next to he items to grant WinSPC permissions to additional users or to emove WinSPC permissions from users.			
	Apply Updates	Refresh User List		

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6. Check the check box for each user you want to be able to run WinSPC on the client station.

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aroups	Users			
The fo within ; neces: the iter remove	llowing is a list of all us your Windows domain. sary permissions to run ms to grant WinSPC pe e WinSPC permissions	ers that exist on this loc Users that are check WinSPC. Click the ch ermissions to additional from users.	cal machine and ed have all the eck boxes next to users or to	
	NT1\Administrator			
	NT1\localuser			

Installation and Configuration Guide

7. Click the **Apply Updates** button. This causes a progress bar to appear.

Applying Permissions - CLIENT1\Administrator

- 8. Once permissions are applied to all selected users, exit the **WinSPC Security** utility by clicking the **X** in the upper right corner. (Later, if you wish to remove previously applied permissions, simply uncheck the appropriate check box and click the **Apply Updates** button.)
- 9. Close the **Utility** folder.

THIS COMPLETES APPENDIX C.

IF YOU NEED TO INSTALL AND CONFIGURE ADDITIONAL CLIENTS, GO TO **CHAPTER 5: ADDITIONAL CLIENT INSTALLS AND CONFIGURATIONS** AND COMPLETE PHASE 4.

IF YOU DON'T NEED TO INSTALL AND CONFIGURE ADDITIONAL CLIENTS, THIS CONCLUDES THE ENTIRETY OF THE SETUP REQUIRED TO BEGIN USING WINSPC. FOR INSTRUCTIONS ON LAUNCHING AND LOGGING INTO WINSPC, SEE **APPENDIX F: LAUNCHING AND LOGGING INTO WINSPC**.

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APPENDIX D: GRANTING SHARE AND SECURITY PERMISSIONS

This appendix details one method of granting a user or user group *Share* permissions to a folder and one method of granting a user or user group *Security* permissions to a file or folder. These methods are applicable to both Windows Server 2003 and Windows XP Pro.

TO GRANT SHARE PERMISSIONS TO A FOLDER

- 1. Log into Windows on the computer containing the folder to which you want to grant *Share* permissions as an administrator with sufficient privileges to grant permissions.
- 2. Using **Windows Explorer**, navigate to and right-click the file or folder to which you want to grant *Share* permissions and, from the shortcut menu, select **Sharing and Security.**
- 3. On the **Sharing** tab of the **<Folder Name> Properties** prompt that is displayed, select the **Share this Folder** option, if it isn't already selected.
- 4. Click the **Permissions** button.
- 5. In the **Permissions for <Folder Name>** prompt, click the **Add** button.
- 6. In the **Select Users, Computers, or Groups** prompt that appears, enter the first letter of the user or user group to whom you want to grant *Share* permissions and click **OK**.
- 7. If a **Multiple Names Found** prompt is displayed, locate and double-click the user or user group.

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- 8. With the user or user group selected in the **Permissions for <Folder Name>** prompt, in the bottom pane, single-click the **Allow** check box for the desired permissions.
- 9. Click OK.
- 10. If you also want to grant *Security* permissions for the folder, click the Security tab in the <Folder Name> Properties prompt and, beginning at step 4 below, complete the To Grant Security Permissions to a Folder or File procedure.
- If you don't want to grant *Security* permissions for the folder, click OK in the <Folder Name> Properties prompt.

TO GRANT SECURITY PERMISSIONS TO A FOLDER OR FILE

- 1. Log into Windows on the computer containing the folder or file to which you want to grant *Security* permissions as an administrator with sufficient privileges to grant permissions.
- 2. Using **Windows Explorer**, navigate to and right-click the folder or file to which you want to grant *Security* permissions and, from the shortcut menu, select **Properties.**
- 3. In the **<Folder Name> Properties** prompt that is displayed, click the **Security** tab.
- 4. On the **Security** tab, click the **Add** button.
- 5. In the **Select Users, Computers, or Groups** prompt that appears, enter the first letter of the user or user group to whom you want to grant *Security* permissions and click **OK**.
- 6. If a **Multiple Names Found** prompt is displayed, locate and double-click the user or user group.

- 7. With the user or user group selected in the top pane of the **Security** tab, single-click the **Allow** check box for the desired permissions in the bottom pane.
- 8. If it is a folder to which you've just granted *Security* permissions and you need to propagate those permissions to the folder's child folders and files:
 - a. On the **Security** tab, with the user or user group still selected, click the **Advanced** button.
 - b. Check the check box labeled **Replace permission entries on** all child objects with entries shown here that apply to child objects.
 - c. Click Apply.
 - d. In the **Security** warning that is displayed, click **Yes**. This initiates the propagation of permissions to child folders and files.
 - e. When the propagation completes, click the **Advanced Security Settings for <Folder Name>** prompt's **OK** button.
- 9. Click OK in the <Folder Name> Properties prompt.

THIS COMPLETES APPENDIX D.

RETURN TO AND COMPLETE THE PROCEDURE YOU WERE WORKING ON PRIOR TO COMING TO THIS APPENDIX.

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APPENDIX E: ADDING USERS TO A USER GROUP

This appendix details one method of adding users to a user group on a domain controller. It applies to Windows Server 2003.

- 1. On your domain controller, click **Start > Administrative Tools > Active Directory Users and Computers.**
- 2. In the left pane of the Active Directory Users and Computers prompt that appears, expand the node for the domain used for your WinSPC implementation.
- 3. Single-click Users.
- 4. In the right pane:
 - a. Multi-select all users who will run WinSPC and all local administrators who will install and configure WinSPC.
 - b. Right-click any of the selected users and, from the shortcut menu, select **Add to a group**.
- 5. In the **Select Group** prompt, enter the first letter of the user group to which you want to add the users and click **OK**.
- 6. If a **Multiple Names Found** prompt appears, double-click the user group.
- 7. In the message indicating that the Add to Group operation was successfully completed, click **OK**.
- 8. Close the Active Directory Users and Computers prompt.

THIS COMPLETES APPENDIX E.

GO TO **CHAPTER 5: ADDITIONAL CLIENT INSTALLS AND CONFIGURATIONS** AND COMPLETE PHASE 4.

IF YOU DON'T NEED TO INSTALL AND CONFIGURE ADDITIONAL CLIENTS, THIS CONCLUDES THE ENTIRETY OF THE SETUP REQUIRED TO BEGIN USING WINSPC. FOR INSTRUCTIONS ON LAUNCHING AND LOGGING INTO WINSPC, SEE APPENDIX F: LAUNCHING AND LOGGING INTO WINSPC.

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APPENDIX F: LAUNCHING AND LOGGING INTO WINSPC

If you are launching WinSPC in a Microsoft Terminal Services environment, connect to the Microsoft Terminal Services server using Remote Desktop before beginning this procedure.

- 1. From the client machine, run **WinSPC**. The default path for doing this is **Start > All Programs > WinSPC > WinSPC**.
- 2. In the WinSPC Access Center that is displayed:
 - a. At User Name, enter a valid user name
 - NOTE: If this is the first time WinSPC is being logged into, the only valid user name is **Admin**.
 - b. At **Password**, enter the password associated with the user name entered above.
 - NOTE: The password for the Admin user is the password created in step 8 of Chapter 4: First Client Configuration (Final Steps).



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c. Click Log In.

WinSPC C/S Access C	enter - Station	: Test1
<u>U</u> ser Name: admin		<u>L</u> og In
Password:	1	<u>R</u> eturn
		<u>H</u> elp
	E <u>x</u> it	<u>A</u> bout

- d. If a message appears indicating that you have one or more unread messages, click **OK**.
- NOTE: For help on using WinSPC, see WinSPC's context sensitive Help system. This Help system can be accessed from within WinSPC by clicking a **Help** button wherever one appears, pressing the **F1** key or selecting **Contents** from the **Help** menu.

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APPENDIX G: HARDWARE REQUIREMENTS AND RECOMMENDED PLATFORMS

This appendix is provided to assist companies in the selection of hardware, operating systems and a database server for their WinSPC implementation. It consists of two sections, one for each of the architectures that can be adopted for WinSPC. These architectures are:

- Conventional Client/Server Architecture
- Microsoft Terminal Services Architecture
- NOTE: The absence of an operating system or database server from any of the below lists means that the operating system or database server is not tested in DataNet Quality Systems' lab. It does not mean that the operating system or database server is known to be incompatible with WinSPC or that DataNet Quality Systems will not do its best to support implementations using the operating system or database server.

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CONVENTIONAL CLIENT/SERVER ARCHITECTURE

Minimum Hardware Requirements

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Recommended Platforms

Server Operating	Database Server	Client Operating
System		System
Windows Server 2008	Microsoft SQL Server	Windows Vista
	2008	Business
Windows Server 2008	Microsoft SQL Server	Windows XP Pro
	2008	
Windows Server 2008	Microsoft SQL Server	Windows Vista
	2008 Express	Business
Windows Server 2008	Microsoft SQL Server	Windows XP Pro
	2008 Express	
Windows Server 2008	Microsoft SQL Server	Windows Vista
	2005	Business
Windows Server 2008	Microsoft SQL Server	Windows XP Pro
	2005	
Windows Server 2008	Microsoft SQL Server	Windows Vista
	2005 Express	Business
Windows Server 2008	Microsoft SQL Server	Windows XP Pro
	2005 Express	
Windows Server 2008	Oracle Database 11g	Windows Vista
		Business
Windows Server 2008	Oracle Database 11g	Windows XP Pro
Windows Server 2008	Oracle Database 10g	Windows Vista
		Business
Windows Server 2008	Oracle Database 10g	Windows XP Pro
Windows Server 2003	Microsoft SQL Server	Windows Vista
	2008	Business
Windows Server 2003	Microsoft SQL Server	Windows XP Pro
	2008	
Windows Server 2003	Microsoft SQL Server	Windows Vista
	2008 Express	Business
Windows Server 2003	Microsoft SQL Server	Windows XP Pro
	2008 Express	

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Windows Server 2003	Microsoft SQL Server	Windows Vista
	2005	Business
Windows Server 2003	Microsoft SQL Server	Windows XP Pro
	2005	
Windows Server 2003	Microsoft SQL Server	Windows Vista
	2005 Express	Business
Windows Server 2003	Microsoft SQL Server	Windows XP Pro
	2005 Express	
Windows Server 2003	Oracle Database 11g	Windows Vista
		Business
Windows Server 2003	Oracle Database 11g	Windows XP Pro
Windows Server 2003	Oracle Database 10g	Windows Vista
		Business
Windows Server 2003	Oracle Database 10g	Windows XP Pro



TERMINAL SERVICES ARCHITECTURE

Minimum Hardware Requirements

Same minimum client station and database server requirements as for *Conventional Client/Server Architectures*.

For the *Microsoft Terminal Services Server* itself, the primary limiting factor is RAM. Approximately 25MB of RAM are consumed by each *Remote Desktop* launch of WinSPC. If a *Microsoft Terminal Services* server has 2GB of available RAM, then, it could potentially host 80 simultaneous user sessions. Additional sessions could be hosted by increasing RAM or using server clusters.

Beyond RAM, the minimum hardware requirements for the *Microsoft Terminal Services* server are:

Server Class processor – 800MHz

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- 200MB available local hard disk space (beyond operating system recommended space)
- VGA monitor and video adapter
- Keyboard
- Mouse or other pointing device
- CD-ROM or DVD-ROM drive
- NOTE: One matter that bears mention but doesn't qualify as a minimum requirement is the *Microsoft Terminal Services* server's number of CPU cores. It is possible that, even with sufficient RAM, server performance could degrade unacceptably once a certain volume of simultaneous sessions is reached. It isn't practical to state what this volume is because it depends in part on how active those sessions are. A reasonable starting allowance would be 10 sessions for each CPU core.

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Recommended Platforms

The operating system for the *Microsoft Terminal Services* server *must* be *Windows Server 2003 (with Service Pack 1)* or newer. Other than this, the recommended platforms for a *Microsoft Terminal Services* architecture are the same as those listed above for a conventional client/server architecture.

HOW TO ESTIMATE DATABASE STORAGE REQUIREMENTS

This estimation procedure applies equally to conventional client/server and Microsoft Terminal Services architectures.

- 1. Multiply the average subgroup size by 37. (E.g. 5x37=185.)
- 2. Multiply the average percentage of subgroups in violation by 66. (E.g. 2%x66=1.32.)
- 3. Multiply the average number of tag values per subgroup by 17.4. (E.g. 4x17.4=69.6.)
- 4. Add the products from the above three steps. (E.g. 185+1.32+69.6=255.92.)
- 5. Add 141.88 to the sum from step 4. (E.g. 141.88+255.92=397.80.)
- 6. Multiply the sum from step 5 by the average number of subgroups collected per day. (E.g. 397.80x10,000=3,978,000.)
- 7. Divide the product from step 6 by 1,000,000. (E.g. 3,978,000/1,000,000=3.978.)

The answer you get from step 7 is the number of MB of disk space you can expect to be consumed per day of WinSPC operation.

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APPENDIX H: SPECIAL CONSIDERATIONS REGARDING VISTA BUSINESS

By taking three considerations into account, WinSPC can be deployed and fully used on client stations running Microsoft's Vista Business operating system. The first consideration concerns User Account Control and affects all Vista Business stations. The second consideration concerns archives and, similarly, applies to all Vista Business stations. The third consideration concerns database server connections and affects only implementations consisting of a Microsoft SQL Server 2005 database server on a Windows Server 2003.

CONSIDERATION REGARDING USER ACCOUNT CONTROL (UAC)

UAC is a security control in Vista Business. When enabled, it precludes WinSPC users from:

- Upgrading WinSPC.
- Exporting text files of data or specifications.
- Installing Custom Web Reporter.
- Collecting data from an OPC server when that server is running on a computer different from the WinSPC client using it to collect data *and* the WinSPC client has the Use Data Advise option enabled.

To be able to perform these functions, with the exception of the final one, UAC must be disabled. For the final function, while disabling UAC certainly permits it to be performed, it is also possible that your network administrator, depending on your network security, may be able to configure DCOM settings on your client and OPC server so that it can be performed with UAC enabled.

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The procedure for disabling UAC is:

- 1. Log into the Vista Business client station as a local administrator.
- 2. From the Control Panel click User Accounts.
- 3. In the User Accounts prompt that appears, click Turn User Account Control on or off.
- 4. If a **Windows needs your permission to continue** message appears, click the **Continue** button.
- 5. In the **Turn User Account Control On or Off** prompt, uncheck the **Use User Account Control (UAC) to help protect your computer** check box.
- 6. Click OK.
- 7. When the message indicating your computer must be restarted, click **Restart Now**.

CONSIDERATION REGARDING MICROSOFT SQL SERVER 2005 DATABASE SERVER ON WINDOWS SERVER 2003

When a WinSPC client running Vista Business connects to a Microsoft SQL Server 2005 database server and that database server is running on a Windows Server 2003 operating system, WinSPC may on occasion display the following error:

General SQL error. Possible network error. Write to SQL Server failed. General network error. Check your documentation.

Modifying a particular registry key resolves this issue.

WARNING: Please consult your network administrator prior to completing the below procedure. Modifying the registry key referred to disables one of Windows Server 2003's security measures.

- 1. Log into Windows Server 2003 as an administrator.
- 2. Using the Regedit utility, Navigate to the following registry key: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Ser vices\Tcpip\Parameters.
- 3. To this key, add the following DWORD value:
 - Name: SynAttackProtect
 - Value: 0
- 4. Restart the Windows Server 2003 machine.

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