

# **Installation guide and configuration of settings for Pervasive.SQL 7 in a Microsoft Windows NT/2000 environment**

This guide explains the different steps during the installation and configuration of Pervasive SQL settings in a Microsoft Windows NT/2000 environment; **it is not an installation guide of Cobra management software.**

1. Technical requirements
2. Pre-installation preparation
3. Installing the software (Pervasive)
4. Configuring the server settings
5. Table of all Pervasive SQL v7 settings
6. Installing the Post SP2 patch

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## 1. TECHNICAL REQUIREMENTS

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To install and configure Pervasive SQL, you must logon onto the server with an account that has "Administrative" or "Supervisor" privileges.

Verify before proceeding that you have the disk space requirements for the installation on both the server and workstations.

	Disk space required
Microsoft Windows server	110 Mb
Workstations - Windows 95/98 or Windows NT/2000/XP	22 Mb

### Technical requirements for the Server

For a minimum installation (3 user license), we recommend:

- ✍ Pentium II 500 or greater
- ✍ Minimum of 128 Mb RAM dedicated to the Pervasive database engine

The installation of all Service Packs and updates for Microsoft Windows NT/2000 should be completed prior to the installation of Pervasive SQL 7; you can find the latest updates for Windows NT/2000 on Microsoft's website.

For an installation larger than 3 users or on a server with other services installed, please contact Cobra's technical service department.

### Technical requirements for the workstations

- ✍ Windows 95 rev. B/98 or Windows NT/2000/XP
- ✍ Pentium II or better processor
- ✍ 64 Mb RAM dedicated to the software

## 2. PRE-INSTALLATION PREPARATIONS

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- ✍ The BTRIEVE or Pervasive.SQL or Scalable SQL services need to be stopped prior to the installation. ( If Pervasive was previously installed )
- ✍ The installation of Pervasive SQL requires you to logon to the server with an account that has Administrative privileges.
- ✍ To avoid any technical issues during the installation, we suggest you use the default directory offered by the installation wizard, **c:\ pvs**
- ✍ We recommend that you exit all other software before proceeding with the installation
- ✍ During the installation the progress windows may show 100% for a few minutes. This is normal, the installation is progressing.

### 3. INSTALLING THE SOFTWARE (PERVASIVE)

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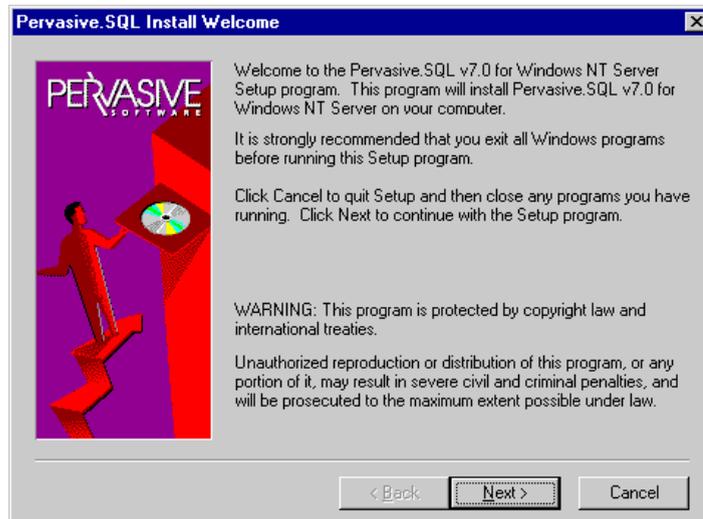
#### 1. Insert the CD into the CD-Rom reader of the workstation

If the PC is configured with «AutoPlay CDs », the installation will start automatically.

If the PC is not configured with «AutoPlay CDs » then simply browse to the CD-Rom and execute SETUP.EXE:

- ☞ Click on START
- ☞ Click on RUN
- ☞ Type: <drive letter of cdrom >:\SETUP.EXE (i.e. d:\setup.exe)

You should see the following window appear:



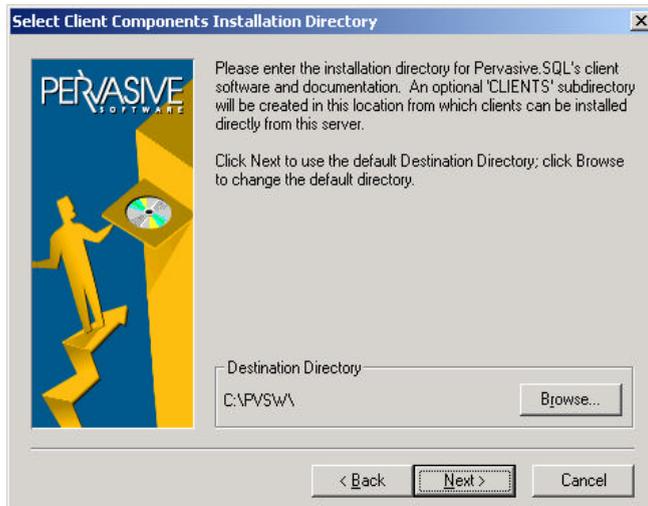
2. **Click on Next**

You should see the following window:



3. **Select « Typical »**

This window then appears:

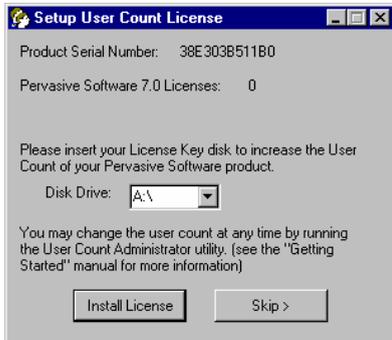


4. **Specify the destination directory the installation will use to install the software**

We suggest using the default suggestion of the installation wizard.

5. **Click Next**

This window will appear:



6. **Insert the License diskette into the floppy drive**

7. **Click Install Licence**

**Note:** use a working copy of this diskette to preserve the original one intact

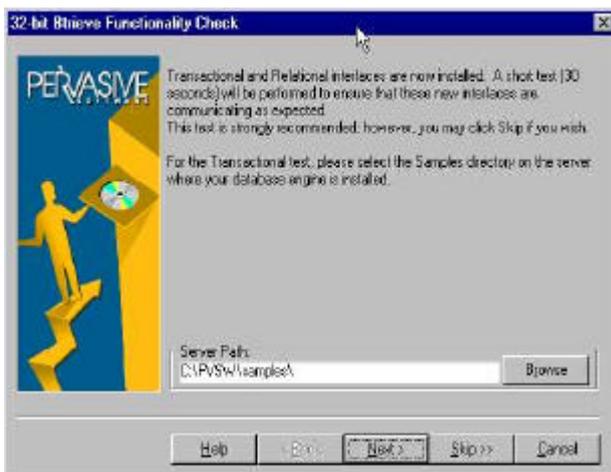
If this is your second attempt or a re-installation of the software you might receive the following message indicating that certain directories already exist. You should reuse the same directories. If the Pervasive SQL 7 directory (PVSW) already exists click « OK » and then « NO » to the following prompt to install into a different directory. Also Select Pervasive SQL 7 for the Start Menu shortcut.





8. Click **Next** and the installation will now proceed.

Do not change the Server Path and click **NEXT**.

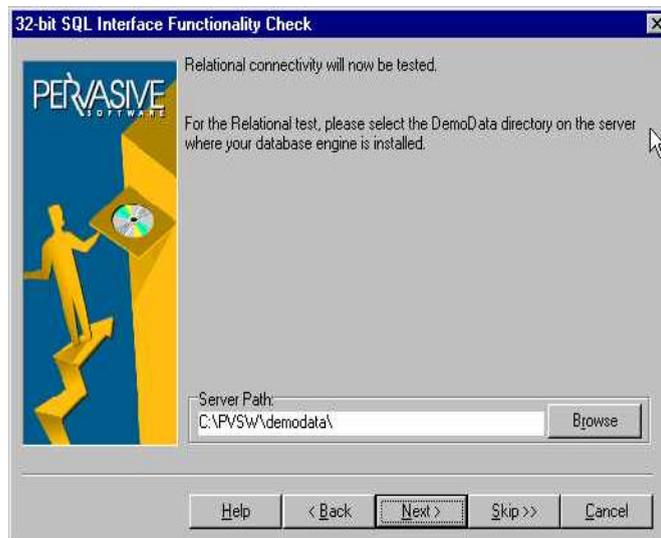


Once the Btrieve communication tests are completed, the following window will appear explaining the results.

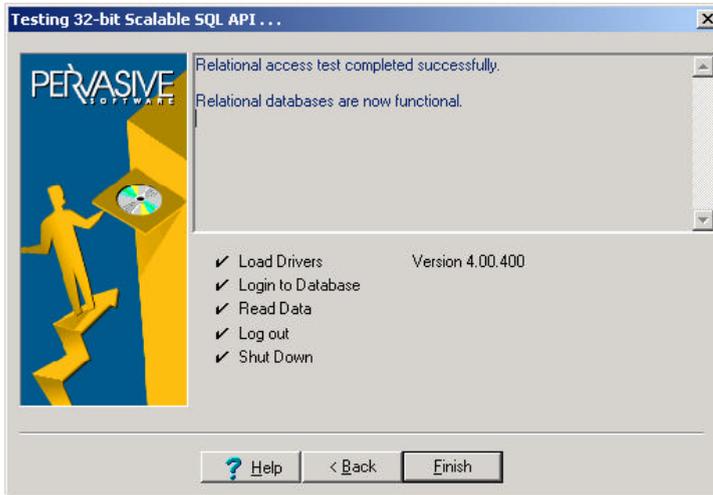


Verify that all the tests completed successfully.

Do not change the Server Path and click NEXT.

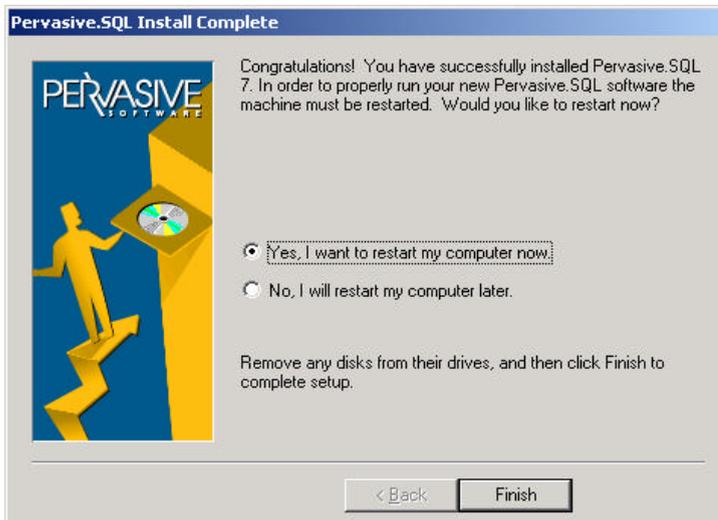


9. Once the Btrieve communications tests are completed the Scalable SQL tests will begin; once they are completed they will display the results in the following window.



Verify that all the tests completed successfully and click Finish

10. Select YES, I want to restart my computer now and click FINISH

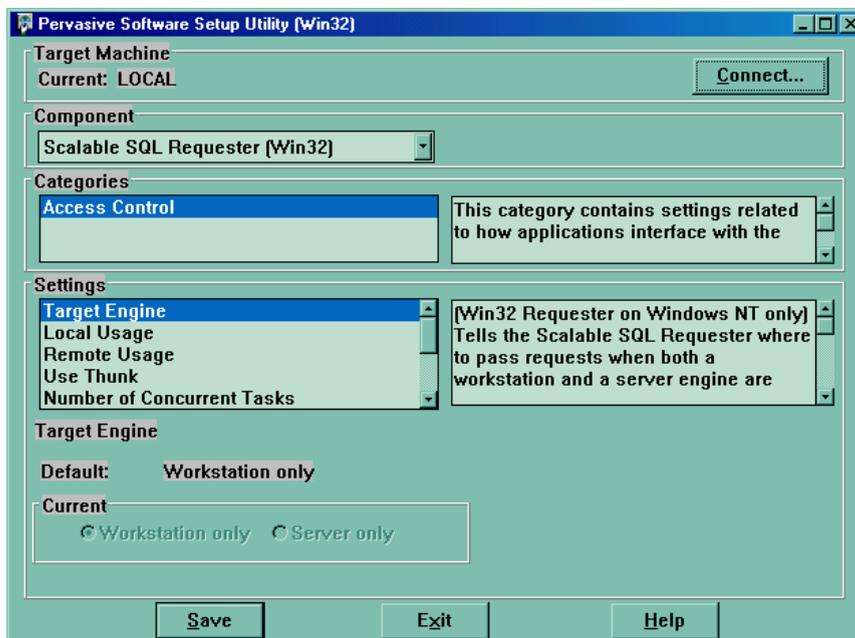


#### 4. CONFIGURATION OF THE SERVER SETTINGS

The configuration of the server is necessary only once, at the time of installation. No other maintenance need be done other than adding licenses as needed.

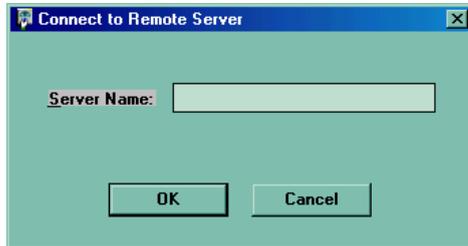
1. Consult the configuration guide on pages 12 to 14
2. Launch the Setup utility by :  
Start  
Programs  
Pervasive SQL 7  
Setup (Win32)

The following window will appear:



3. **To start the configuration of the server, click on CONNECT**

The following window should appear:



4. **Enter the Server Name and click OK**

The configuration utility will connect to the server and display its settings.

To configure the various settings, simply choose the appropriate parameter: «Component», «Category» and « Settings» and then select the setting you wish to modify and enter the new value.

**Example :**

To set the amount of Open Files permitted by the engine, simply choose : Component -> Microkernel Database Engine

Category -> File Settings

Settings -> Open Files

In the Current field enter the appropriate value (500 per Coba application)

5. **Once all the settings have been modified, click on Save and then Exit**
6. **Restart the server to insure that all settings will be applied**
7. **The installation is now complete**

## 5. TABLE OF PERVASIVE SQL SETTINGS

Component	Categories	Settings	Current
Scalable SQL Engine	System Configuration	Enable External Procedures	Off
		External Sort File Directory	Default
		Isolation Level	Cursor Stability
		Communications Buffer Size	32767
		Worker Threads	25
		Check Table Definitions	Off
	Trace File Control	Scalable SQL Logins/Logouts	Off
		Failed Scalable SQL Logins	Off
		All Other Scalable SQL Calls	Off
Trace File		Default	
Scalable SQL Communications Manager	Server Communication Configuration	Number of Sessions	= 6 X the licensed users <sup>1</sup>
		Communications Buffer Size	32767
		Number of Communications Threads	64
		Accept Remote Requests	On
		Supported Protocols	See notes <sup>2</sup>
		Read Buffer Size	4096
Microkernel Database Engine	File Settings	Open Files	500 per COBA application.
		Handles	= 240 x the licensed users <sup>1</sup>
		Index Balancing	Off
		Archival Logging of Selected Files	Off
		Create File Version	6.X
		System Data	If needed
		Maximum Databases	10

### Notes

1. In this context it is the licensed users of Pervasive SQL 7 not the Windows server.
2. Enable only the network protocols active on your network. Typically in a Windows NT/2000 environment it is TCP/IP.

Component	Categories	Settings	Current
	Memory Resources	Cache Allocation	<b>32767</b> <sup>3</sup>
		Communication Buffer Size	35
		Largest Compressed Record Size	1
		Extended Operation Buffer Size	35
		Sort Buffer Size	0 <sup>4</sup>
	Client/System Transactions	Transaction Durability	Off
		Operation Bundle Limit	1000
		Initiation Time Limit	10 000
		Log Buffer Size	64
		Transaction Log Size	512
	System Resources/Directories	Active Clients	6 X the licensed users <sup>1</sup>
		I/O Threads	15
		Wait Lock Timeout	1
		System Cache	On
		Allocate Resources at Start-up	On
		Back to Minimal State if Inactive	Off
		Minimal State Delay	30
		Worker Threads	15
		Home Directory	Default
		Transaction Log Directory	Default
		Working Directory	Default
	Trace Btrieve Operations	Trace Operations	Off
		Trace File	Default
Select Operations		ALL	
Number of Bytes From Data Buffer		32	
Number of Bytes From Key Buffer		32	

## Notes

3. The cache allocation setting will depend on the total available memory (RAM) installed on the server. The minimum value needed is 32768. A higher value will improve the performance of the Coba applications
4. This value should be set to zero (0), the Microkernel will use the amount of resources necessary

Component	Categories	Settings	Current
Btrieve Communications Manager	Server Communication Configuration	Number of sessions	6 X the licensed users <sup>1</sup>
		Communications Buffer Size	63
		Number of Communications Threads	30
		Accept Remote Requests	On
		Supported Protocols	See Notes <sup>2</sup>
		Read Buffer Size	35

## 6. INSTALLING THE POST SP2 PATCH

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1. The NTSSQL4.DLL file can be found on the Pervasive SQL 7 Cdrom in the Patches directory.
2. If the Pervasive SQL 7 services(2) are started, proceed to stop them by:  
*Control Panel*  
*Services*  
Stop **Btrieve and Scalable SQL** services
3. Copy the updated file (NTSSQL4.DLL) into the WINNT\SYSTEM32 directory of the server. When prompted to overwrite the existing file, click YES
4. Restart the Pervasive SQL services on the server by :  
*Control Panel*  
*Services*  
Start **Btrieve and Scalable SQL** services