TECHNICAL BULLETIN

PEARSON

Upgrading to Microsoft SQL Server 2005

You can purchase Microsoft® SQL Server® 2005 from Microsoft.

This document describes the process required to upgrade from Microsoft SQL Server 2000 to SQL Server 2005. For detailed instructions on implementing Microsoft SQL Server 2005, go to the Microsoft SQL Server 2005 web site (http://www.microsoft.com/sqlserver/2005/en/us/upgrading.aspx).

Preparing for the Microsoft SQL Server 2005 upgrade

Microsoft recommends you complete certain tasks as part of the SQL Server 2005 upgrade. Depending on your specific architecture, some of these recommendations may not apply to your configuration. For more specific instructions for upgrading to Microsoft SQL Server 2005 in your environment, contact Microsoft.

Based on Microsoft recommendations, complete the following steps to successfully upgrade to Microsoft SQL Server 2005.

Changing SQL Server settings

To view or change SQL Server settings:

1   In Enterprise Manager, browse to your SQL Server database.
2   Right-click your database and choose **Properties**.
3   Click **Options**.
4   Click **Settings**.
5   Make sure **Auto update statistics** is selected. Click **OK**.

6 In **Enterprise Manager**, browse to your SQL Server.

7 Click **Properties**.

8 Click the **Memory** tab.

9 For **Maximum MB**, make note of the MB setting. You will need to reset Maximum MB to optimal settings for your environment after the SQL Server 2005 upgrade is complete [see *Resetting Memory to optimal settings*, p. 6].

10 Drag the pointer to the right to select the maximum available memory. For example, 511 MB.

11 Click the **Server Settings** tab.

12 For **Use query governor to prevent queries exceeding specified cost**, enter **0**. Click **OK**.

Preparing the database server

Prior to upgrading SQL Server, Microsoft recommends running diagnostics, such as the Microsoft Product Support Reporting Tool, to create a baseline. In addition, Microsoft recommends running hardware and operating system diagnostics. For more information, contact Microsoft.

To prepare the database server:

1 Verify database integrity: In Query Analyzer, execute `DBCC CHECKDB`. You must correct any errors before proceeding to the next step.

2 Following your regular procedure, make a backup of your Chancery SMS databases and system.

3 Verify the backup.

4 Make sure no jobs are scheduled to run during the time you are performing the SQL Server upgrade. You must disable all scheduled jobs for SQL Server Agent®, Windows®, and any third-party tools you have installed on your server.

5 Stop any third-party monitoring tools.

Stopping the Chancery SMS Task Manager service

Prior to upgrading SQL Server 2005, you must stop every instance of the Chancery SMS Task Manager on the Chancery SMS web servers.

To stop the Chancery SMS Task Manager server:

1 On each web server, from the Windows **Start** menu, click **Control Panel** > **Administrative Tools** > **Services**.

2 Right-click **Chancery Task Manager** and click **Stop**.

Disconnecting users and stopping services

Prior to upgrading to SQL Server 2005, perform the following steps:

1 Disconnect users from your server.

2 Stop all services that are not used by the SQL Server upgrade. The following services MUST be running:
   - Alerter
   - Computer Browser
   - Distributed File System
   - Distributed Link Tracking Client
   - Distributed Link Tracking Server
   - Domain Name System (DNS) Client
   - Event Log
   - Internet Protocol security (IPsec) Policy Agent

- ⓘ License Logging Service
- ⓘ Logical Disk Manager
- ⓘ Messenger
- ⓘ Net Logon
- ⓘ NTML Security Support Provider
- ⓘ Network Connectors
- ⓘ Plug and Play
- ⓘ Process Control
- ⓘ Remote Procedure Call (RPC) Locator
- ⓘ RPC Service
- ⓘ Remote Registry Service
- ⓘ Removable Storage
- ⓘ RunAs Service
- ⓘ Security Accounts Manager
- ⓘ Server
- ⓘ Spooler
- ⓘ TCP/IP NetBIOS Helper
- ⓘ Time Service
- ⓘ Windows Management Instrumentation Driver Extensions
- ⓘ Windows Time
- ⓘ Workstation

3 As recommended by Microsoft, you must stop any other services and set them to manual.

4 Take note of any services you change because you will need to turn these back on after the SQL Server upgrade is complete.

5 Stop all web and application servers and disable any anti-virus programs.

6 Set all server databases to **Auto-grow**.

7 Restart the server.

Installing the SQL Server 2005 upgrade

Before installing SQL Server 2005 upgrade, ensure you have restarted the server.

To install the SQL Server 2005 upgrade:

1 Double-click the **Microsoft SQL Server 2005** installer.

2 In the End User License Agreement dialog, select **I accept the licensing terms and conditions**. Click **Next**.

3 In the Installing Prerequisites dialog, click **Install**. SQL Server Component Update installs the following components:
- ⓘ .NET Framework
- ⓘ Microsoft SQL Native Client
- ⓘ Microsoft SQL Server 2005 Setup Support Files

4 Click **Next**.

5 In the Welcome dialog, click **Next**.

6 In the System Configuration Check dialog, when system checking is complete, click **Next**.

7 In the Registration Information dialog, enter a **Name** and **Company**. Click **Next**.

8 In the Components to Install dialog, select **SQL Server Database Services**.

9 Make sure the **SQL Server Database Services option** is selected, other services are optional:
   - ⓘ Analysis Services
   - ⓘ Reporting Services
   - ⓘ Notification Services
   - ⓘ Integration Services
   - ⓘ Workstation components, Books Online and development tools

   Note: On a Production server, we recommend that you do not install Workstation components, Books Online and development tools. We recommend installing Workstation components on test servers only.

10 Click **Next**. In the Existing Components dialog, existing SQL components display.

11 Click **Next**.

12 In the Upgrade Logon Information dialog, select **SQL Server Authentication Mode**. Enter the **sa Username** and **Password**. Click **Next**.

13 In the Service Account dialog, select **Use a domain user account**.
   - ⓘ Caution: After installing SQL Server 2005, use the SQL Server Configuration Manager utility to make all changes to the services associated with the SQL Server. This utility ensures that all changes to the account name or password are correctly propagated to all components. Do not make any changes directly in the control panel, otherwise services might not operate as expected.

14 Enter a Username, Password, and Domain.
   - ⓘ Caution: You must use a valid account for both the domain and the local machine. The account you use must be in the local Administrator group and the password must be set to **Never expires**. We recommend that you create an account for the SQL Server installation process instead of using an existing user's account.

15 In the **Start services at the end of setup**, select **SQL Server** and **SQL Server Agent**.

16 Click Next.

17 In the Error and Usage Report Settings dialog, deselect all available options. Click **Next**.

18 In the Ready to Install dialog, click **Install**. The Setup Progress dialog displays the components and setup status.

19 When the installation is complete, click **Next**.

20 In the Completing Microsoft SQL Server 2005 Setup dialog, click **Finish**.

21 Restart the database server.

Setting the SQL Server Compatibility Level

Chancery SMS requires you to set the SQL Compatibility Level for your database.

To set the SQL Server Compatibility Level:

1 Start **Microsoft SQL Server Management Studio**.

2 In the **Object Explore** view, expand **Databases**.

3 Right-click the **Chancery SMS database**. Click **Properties**.

4 Click **Options**.

5 Set the **Compatibility Level** to **SQL Server 2005 (90)**. Click **OK**.

6 After Microsoft SQL Server 2005 is successfully installed, you must apply Microsoft SQL Server 2005 Service Pack 2 [see *Preparing to Install SQL Server 2005 SP2*, p. 5].

Preparing to Install SQL Server 2005 SP2

When working with Microsoft SQL Server 2005, you must install Microsoft SQL Server Service Pack 2.

Prior to installing SQL Server 2005 SP2, do the following:

1 Verify database integrity. In Query Analyzer, execute `DBCC CHECKDB`. You must correct any errors before proceeding to the next step.
2 Following your regular procedure, make a backup of your database and system.

Caution: When you make a backup, do not overwrite the backup you completed prior to installing SQL Server 2005. Instead, we recommend that you keep a separate backup.

Installing SQL Server 2005 SP2

1 Start your browser and point it to http://www.microsoft.com/.
2 Search for, download, and extract SQL Server 2005 Service Pack 2.
3 Double-click **Microsoft SQL Server 2005 Service Pack 2** installer.
4 In the Welcome dialog, click **Next**.
5 In the License Terms dialog, after reading the license terms, select **I accept the agreement**. Click **Next**.
6 In the Feature Selection dialog, click **Next**.
7 In the Authentication dialog, select **Apply selection to all instances**.
8 From the Authentication dropdown, select **SQL Authentication**.
9 Enter the **sa username** and **password**. Click **Next**.
10 In the Error and Usage Report Settings dialog, deselect all available options. Click **Next**.
11 In the Running Processes dialog, stop any services which are locking files required by the SQL server 2005 Service Pack 2 installation. Click **Next**.
12 In the Ready to install dialog, click **Install**.
13 In the Installation Progress dialog, click **Next**.
14 In the Installation Complete dialog, click **Next**.
15 In the Additional Information dialog, click **Finish**.

Completing Additional SQL Server 2005 setup tasks

After upgrading SQL Server, Microsoft recommends running diagnostics, such as the Microsoft Product Support Reporting Tool, to create a baseline. In addition, Microsoft recommends running hardware and operating system diagnostics. For more information, contact Microsoft.

To complete additional SQL Server 2005 setup tasks:

1 Restart any required services you stopped to complete the SQL Server upgrade. [see *Disconnecting users and stopping services*, p. 2].
2 Start your web and application servers.
3 If applicable, start your anti-virus programs and any required monitoring tools.
4 Enable required scheduled jobs in SQL Agent, Windows, and any third-party programs, as required.

Starting the Chancery SMS Task Manager service

After upgrading SQL Server 2005, you must start the Chancery SMS Task Manager.

To start the Chancery SMS Task Manager service:

1   From the Windows **Start** menu, click **Control Panel** > **Administrative Tools** > **Services**.
2   Right-click **Chancery Task Manager Service** and click **Stop**.

Resetting Memory to optimal settings

Prior to installing the SQL Server upgrade, you selected the maximum available memory [see *Changing SQL Server settings*, p. 1]. Now, reset Maximum MB to optimal settings for your environment.

To reset Memory to optimal settings:

1   In **Enterprise Manager**, browse to your SQL Server.
2   Click **Properties**.
3   Click the **Memory** tab.
4   Reset **Maximum MB** to optimal settings for your environment.
5   Drag the pointer to select the appropriate setting.
6   Click OK.