

SIMS

Migrating SIMS to SQL 2008

SIMS 2009 Autumn Main
Release Onwards

**Mini
Guide**



CAPITA
CHILDREN'S SERVICES

Revision History

Version	Change Description	Date
1.0	Initial Release	01/10/09

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Capita Doc Ref: SIMSSQL2008Mig/HBK/011009/VB

Providing Feedback on Documentation

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Please ensure that you include the module name, version and aspect of documentation on which you are commenting.

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01 | Key Information

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Introduction

This chapter covers the key information required in order to migrate your SIMS database from SQL 2005 to SQL 2008.



NOTE: A separate guide Migrating FMS to SQL 2008 (FMSSQL2008M.pdf), is available for FMS migrations.

What SIMS Versions are Supported for the SQL Migration?

The SQL 2008 migration can be carried out on live systems from the SIMS 2009 Autumn Main Release until the SIMS 2010 Autumn Main Release.

When Should I do my Migration?

Support for SIMS on SQL 2008 begins in October 2009 for live systems. Between October 2009 and October 2010, support will be provided for SIMS on both SQL 2005 and SQL 2008. Support for SIMS on SQL 2005 will end in October 2010. All SIMS (and FMS) databases must be migrated by this time.

What is the Support for 32 and 64-bit SQL Server?

The following versions are supported for server operating systems:



NOTE: The SIMS minimum hardware and software requirements for workstations are available from www.sims.co.uk/hardware.

- Windows 2003 Server 64-bit
- Windows 2008 Server 64-bit
- Windows 2003 Server 32-bit
- Windows 2008 Server 32-bit
- Windows Vista 32-bit
- Windows XP 32-bit



NOTES: Windows XP 64-bit and Vista 64-bit are not supported.

Support is provided for 32-bit SQL Servers on a 64-bit platform, although this setup is not advised and offers no advantage to users.

What if I Use ADPS2 or SLG2?

Before migrating the SIMS database, SLG2 and ADPS2 customers must consider that additional tasks are required to update the settings for SLG2 and ADPS2 in order for them to access the new database location. There may be down-time as a result and this must be planned for, with the relevant users notified in advance.

For more information, please see *Additional Migration Tasks for ADPS2/SLG2 Users* on page 40.

Does the Migration Utility Work on Both SIMS and FMS Databases?

A single utility is provided that offers you the choice of installing a SQL 2008 Express instance and migrating a SIMS or an FMS database. One database can be migrated at a time. To migrate a SIMS database, select the **Move a SIMS Database to SQL 2008** radio button. The utility must be run again in order to migrate an FMS database.

Should SIMS and FMS Databases be Migrated at the Same Time?

Capita recognises that you may choose to migrate SIMS at a different time to FMS and it is possible to do this. However, this will mean that the server will have two instances of SQL in concurrent live operation. It is expected that most servers will perform less well when running two instances of SQL than they would for two databases running on a single instance. Therefore, where possible, we advise that both databases are migrated at the same time.

Should FMS and SIMS Databases be on Different SQL 2008 Instances?

No, unless you have a specific requirement to host them on different machines. Two SQL instances on the same machine will inevitably impact on the performance of the machine. There is no reason why FMS and SIMS cannot be on the same instance, assuming that the server is of an appropriate specification.

What does the Migration Utility Do?

The migration utility carries out the following:

- Installs SQL 2008 Express. This is optional and is not required if you have a full copy of SQL 2008 or if you have elected to install an alternative version of SQL 2008 Express.
- Migrates your SIMS database(s) to SQL 2008.
- Provides a redirection service. Please see the next section for more information.

What Does the Redirection Service Do?

The new SQL 2008 host will, inevitably, have a different identity on the network than the SQL 2005 host. A SQL Identity name consists of both the Machine Name and Instance Name (if it is not a default Instance).

The migration itself will, if possible, modify:

- the Document Server Storage Structure (the folder system is arranged by instance name and database name).

- scheduled tasks for SIMS applications, such as AutoReports, VLE, SIMS Scheduled Tasks, B2B, DBAttach, and SOLUS, which contain correctly formatted server and database parameters in their command line parameters.

If you subscribe to the redirection service during the migration, the SIMS clients will automatically update the `CONNECT.INI` files with the location of the migrated database. This process occurs the first time that a SIMS user on a particular machine uses SIMS after the migration. The activity is seamless to the user, but the login may take longer than normal.



NOTE: *None of the redirection facilities will be available if you do not opt to enable them during the migration. If you do not enable them during the migration, you will be responsible for updating your connection information. Please see Manually Redirecting SIMS and Remapping the Document Management Server on page 33 for more information.*

Who Can Run the Migration?

The migration must be run by a system administrator (sa) or by a user with equivalent rights.

How Much Disk Space is Required?

It is impossible to give exact disk space requirements as it depends on which version of SQL 2008 you are using, which options are selected and the size of your SIMS database. As a rough guide, you should have 1 Gb available for a SQL 2008 Express installation. For the database migration, you should have space for a backup (which can then be transferred to a different location), space for the .MDF and .LDF files and an additional 1 Gb of working room.

Do I Have to Use the Version of SQL Express 2008 Provided by Capita?

It is not necessary to use the version of SQL Express 2008 provided by the SIMS Migration Utility. The following alternatives are available:

- Where full SQL is in use, you can install full SQL 2008. This must be configured so that the server is suitable to host a SIMS database server.
- You can install a different version of SQL Express 2008 and configure it so that the server is suitable to host a SIMS database.



NOTE: *There are other versions of the SQL 2008 Express edition that provide advanced services and tools. Please refer to <http://www.microsoft.com/express/sql/download/> for more information. If you require these extra features, you should either manually download and install the appropriate version from the Microsoft website or install the tools as additions at a later date.*

Please see *Setting Up a New Machine as the SQL 2008 Host* on page 32 for more information.

Will SQL 2005 be Disabled Once I have Migrated?

No. SQL 2005 will continue to operate once the SIMS database has been migrated. In order for the redirection service to operate, SQL 2005 must be left running for a suitable period of time, i.e. until all users have logged into SIMS.

When SQL 2005 is no longer needed and only if it is not used for any other applications on your system, you are advised to disable the SQL Server Service for SQL 2005 for a period of time to check that it is no longer required and then to uninstall the instance as this will speed up the host machine.

Can I Set Up a new Machine as the SQL 2008 Host and Transfer the Database to it?

Yes. Please see *Setting Up a New Machine as the SQL 2008 Host* on page 32 for more information.

Will I Notice any Differences Following the Migration?

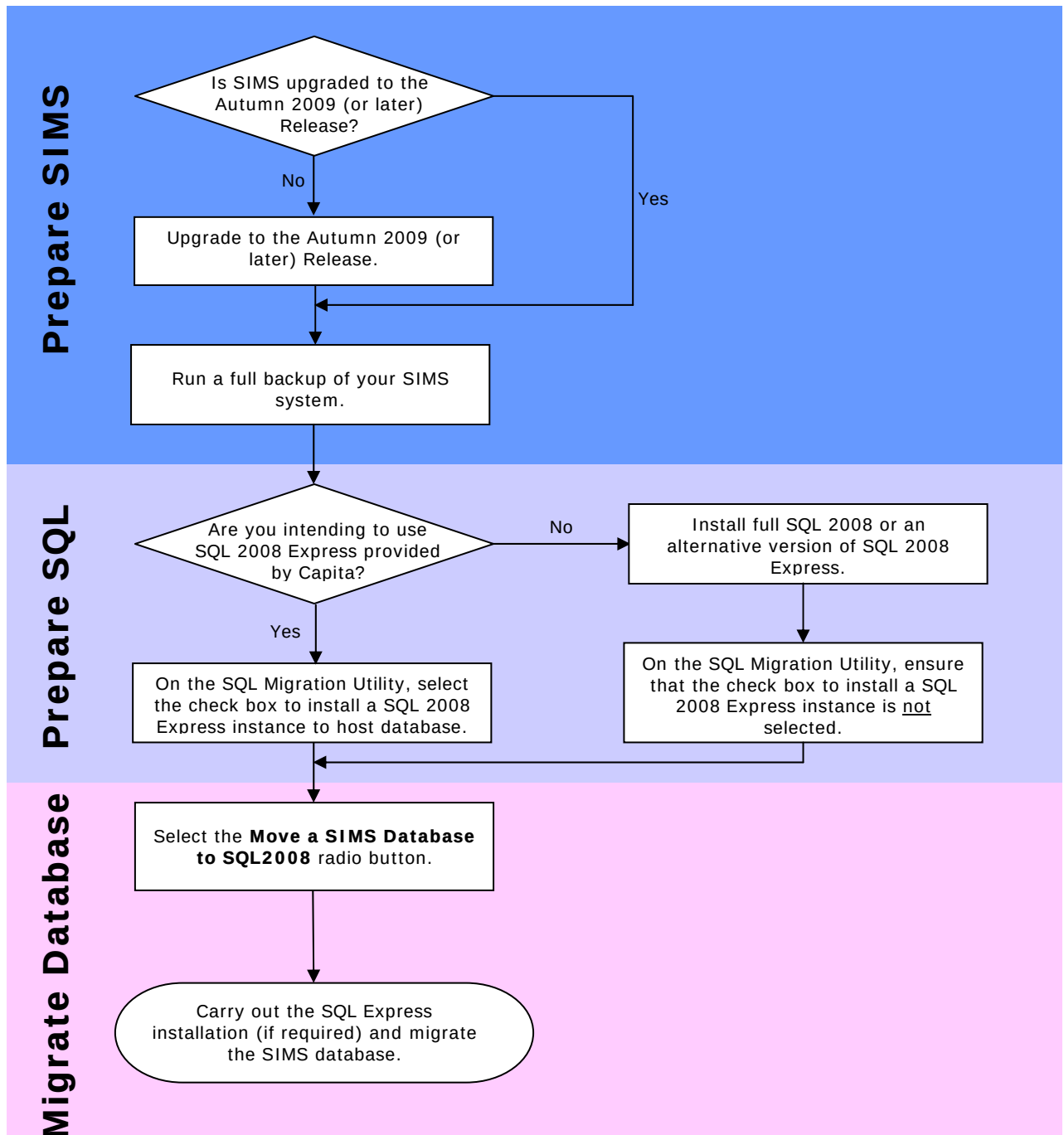
In the day-to-day use of SIMS, there are no changes in functionality. The only differences to be aware of are:

- Users of SQL Express will no longer write to the Log (.LDF) files.
- SIMS will no longer truncate the SQL Log file due to its deprecation of functionality by Microsoft in SQL 2008. Any customers installing a full version of SQL 2008 Server will need to manage this file. Customers using the version of SQL Express 2008 supplied by SIMS will not experience this issue as it will not grow (see point above).

What Information should I have Before I Start?

- The name of the SQL 2005 Instance that holds the SIMS database, e.g. SIMS2005.
- SQL 2005 SA (or equivalent) username and password.
- The name of the SIMS database(s) to be migrated.
- The location of the root directory for Data Files and Binary Files to be installed. A default location is provided (C:\Program Files\Microsoft SQL Server), which can be changed to any valid location on the target machine.
- If you already have SQL 2008 (full or Express) installed, you will need to have the SA (or equivalent) username and password and the name of the SQL 2008 Instance.

What is the Recommended Process?



IMPORTANT NOTE: You must ensure that your disaster recovery plan works correctly following the migration.

02 Installing SQL Express 2008 and Running the SIMS Migration

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Introduction



NOTE: The SIMS SQL Migration Utility is provided as a separate download from SOLUS.

Before beginning the migration, ensure you have taken a full backup and reviewed the information in chapter 1.

This process will optionally install and configure a Microsoft SQL 2008 Express Database Server Instance to act as a host for SIMS and migrate the existing SIMS database from the SQL 2005 host to SQL 2008 Express (or full SQL 2008).



NOTES: The SQL 2005 Database Server will remain available for all non-SIMS purposes during the entire migration process.

Although the SQL 2005 host and the SQL 2008 host can be on separate machines, the SIMS database migration routine functions in a fully automated manner only if both the SQL 2005 host and the SQL 2008 host exist on the same machine.

Users who have already installed SQL Express 2008 or full SQL 2008, should carry out the instructions outlined in *SQL 2008 Host Configuration Requirements* on page 34 and on the opening page of the SIMS SQL Migration Utility, deselect the **Install a new SQL Express Instance to host SIMS** check box.

Access Rights

The following access rights are required to carry out the processes described in this chapter:

- A user with System Administrator rights should install SQL Express 2008.
- The user who migrates the SIMS database will need to be logged into the SQL 2005/Express and SQL 2008/Express with Database Administrator, e.g. SA, rights. This user will also need Windows permissions to the Files system (data folders of both SQL Servers).

Running the SIMS SQL Migration Utility

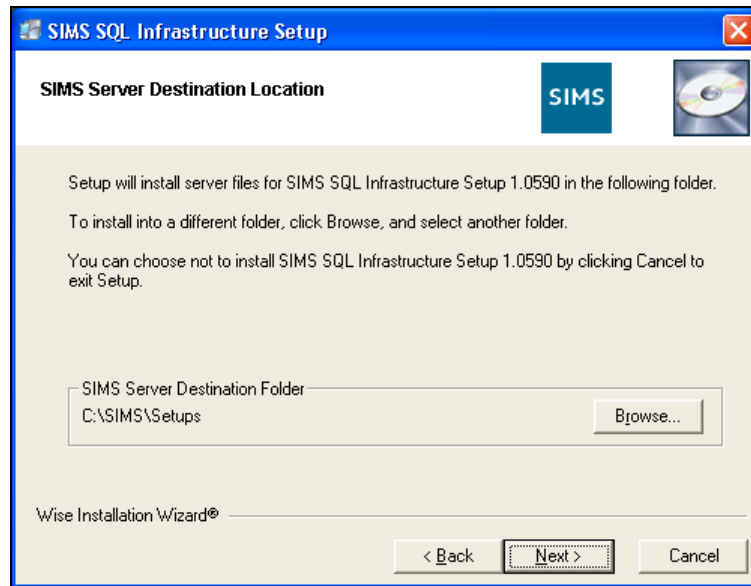


IMPORTANT NOTE: The SIMS SQL Migration Utility can only be run on the machine on which it is installed, i.e. the SIMS Server. It cannot be run from a mapped network drive.

1. On the machine that is intended to be used as the SIMS Database Server, close down all Windows programs, navigate to the SIMS\Setups folder in Windows Explorer and double-click the SIMSSQLInfrastructureSetup.EXE file.



2. The SIMS SQL Infrastructure screen is displayed. Click the **Next** button.

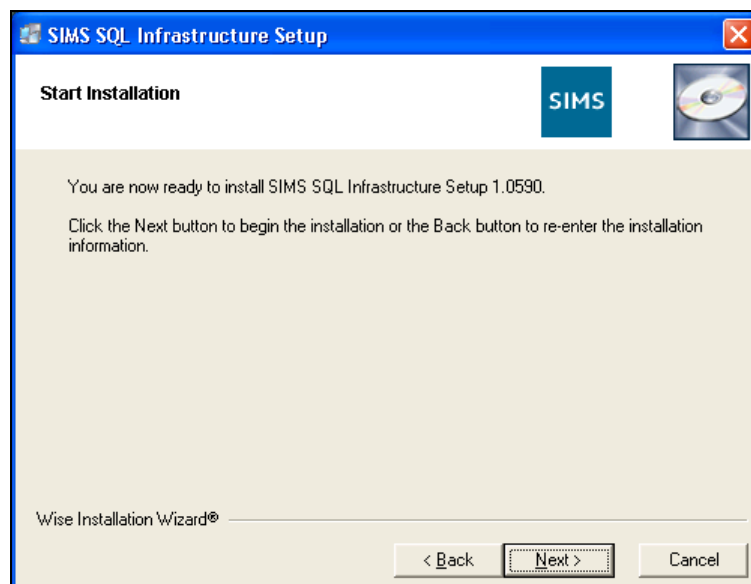


3. The **SIMS Server Destination Folder** defaults to the current location of the Setups folder. This can be changed, if required, by clicking the **Browse** button and selecting a different location.

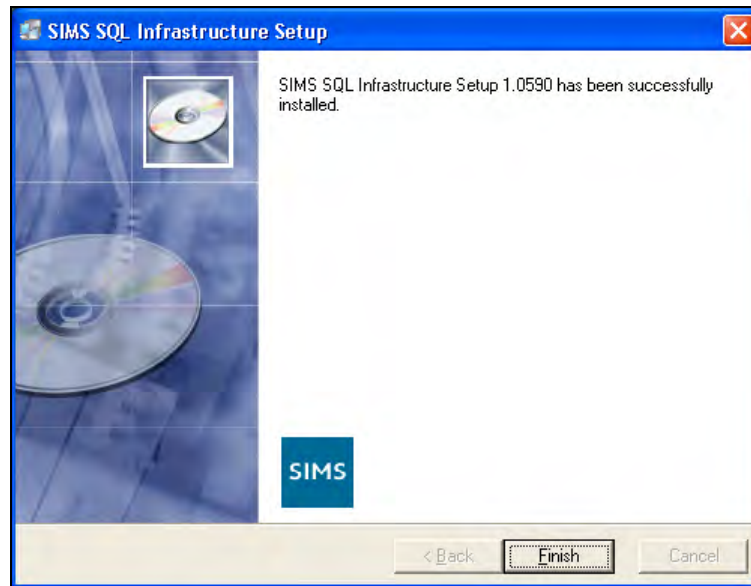


IMPORTANT NOTE: If a different location to the default is chosen here, the SIMS.INI file on this machine is edited to display this new location.

4. Click the **Next** button.



5. On the **Start Installation** screen, click the **Next** button to continue or the **Back** button to make any amendments to the previous screen.



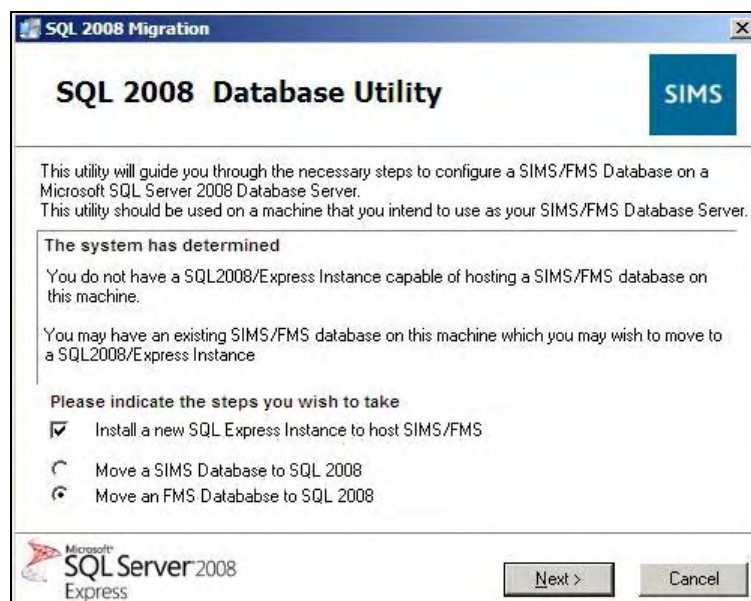
6. Click the **Finish** button once the process has completed.

The SIMS-FMS SQL2008.exe file will now be present into your SIMS\Setups folder (or in the location specified).



NOTE: If you wish to install SQL Express 2008 only (i.e. without migrating), double-click on CCSSQLEXPRESSINST.EXE in the SIMS\Setups folder.

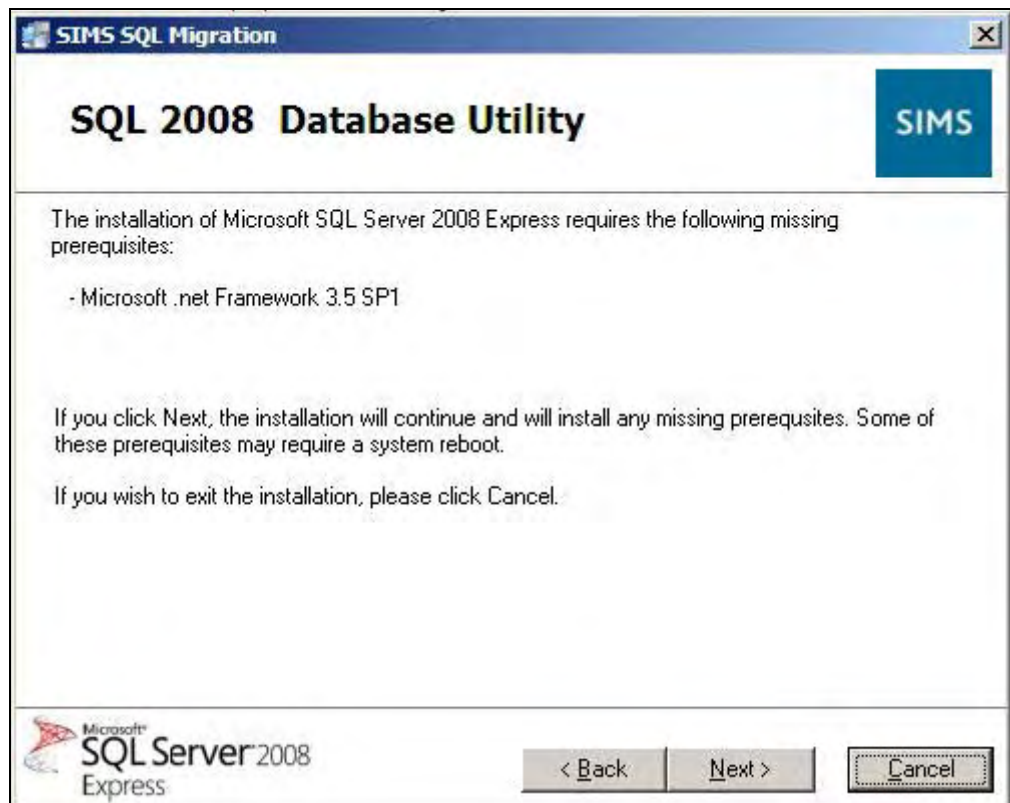
7. Double-click SIMS-FMS SQL2008.EXE in the SIMS\Setups folder to open the utility.



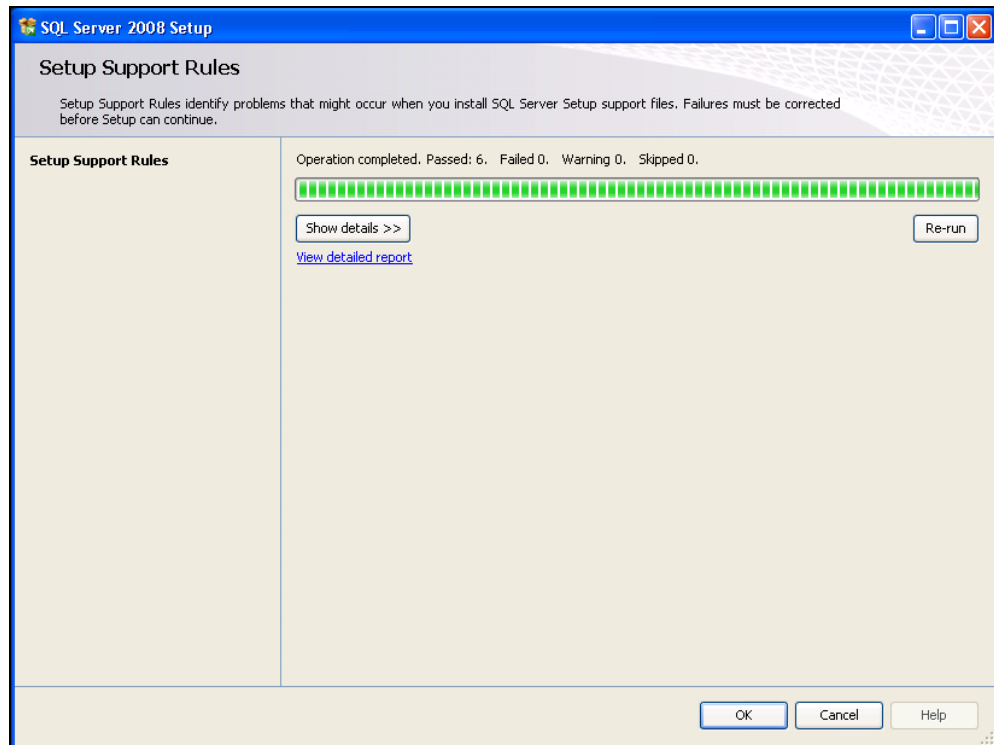
The utility now checks your system.

8. If you already have an installation of SQL Server 2008, for example if you have already installed one for FMS, deselect the **Install a new SQL Express Instance to host SIMS/FMS** check box and proceed to *Migrating the SIMS Database to SQL 2008* on page 23.
9. To migrate a SIMS database at this time, select the **Move a SIMS Database to SQL 2008** radio button.
10. Click the **Next** button. Any pre-requisites required are displayed.

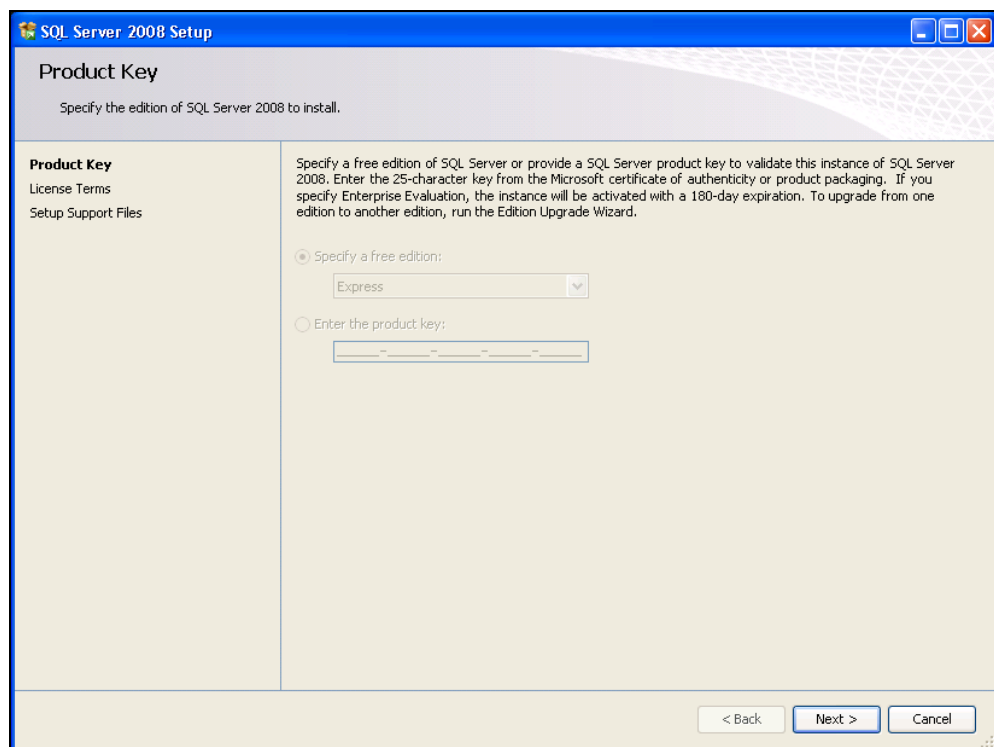
For example:



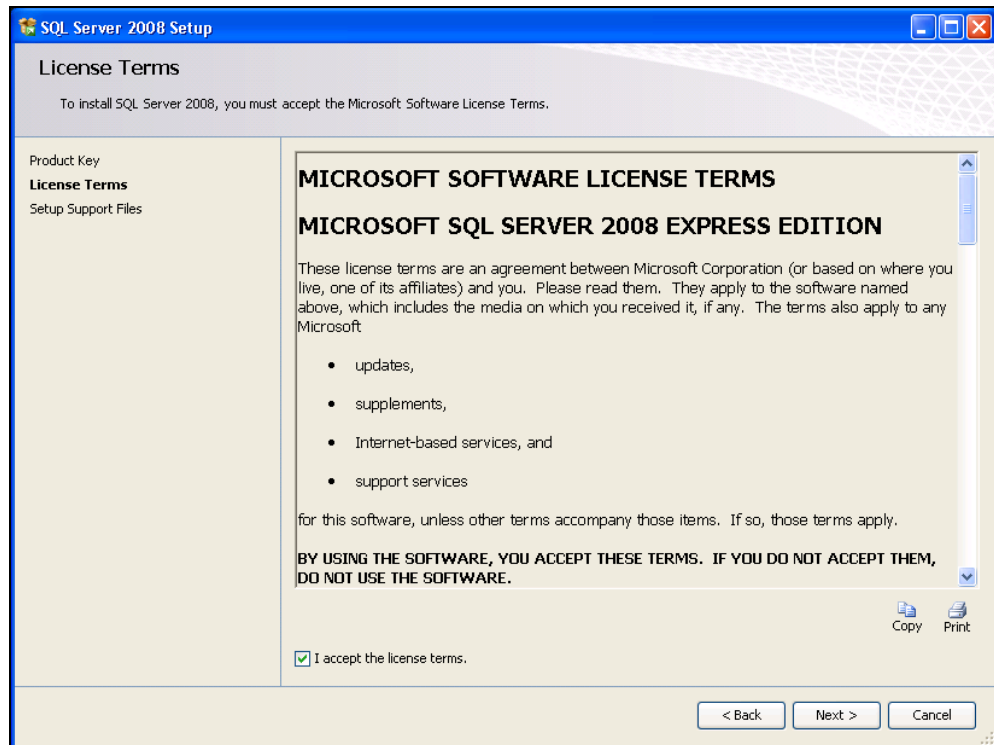
Click the **Next** button to continue the installation, including any missing prerequisites.



11. On the **Setup Support Rules** page, click the **OK** button to proceed.

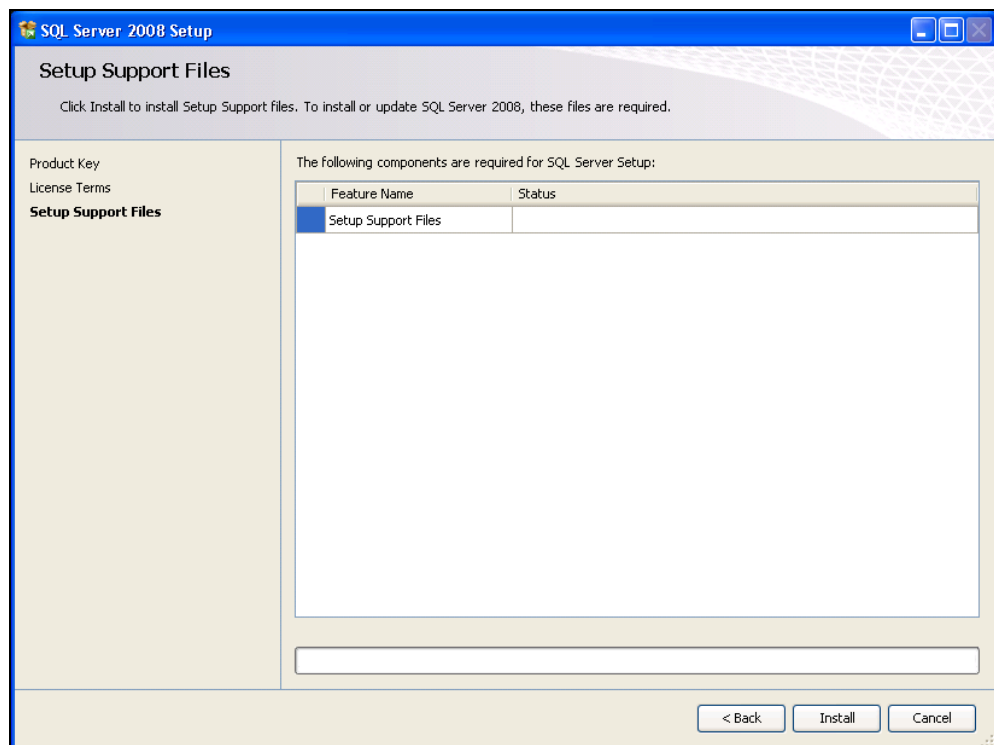


12. The **Product Key** page is read-only. Click the **Next** button.

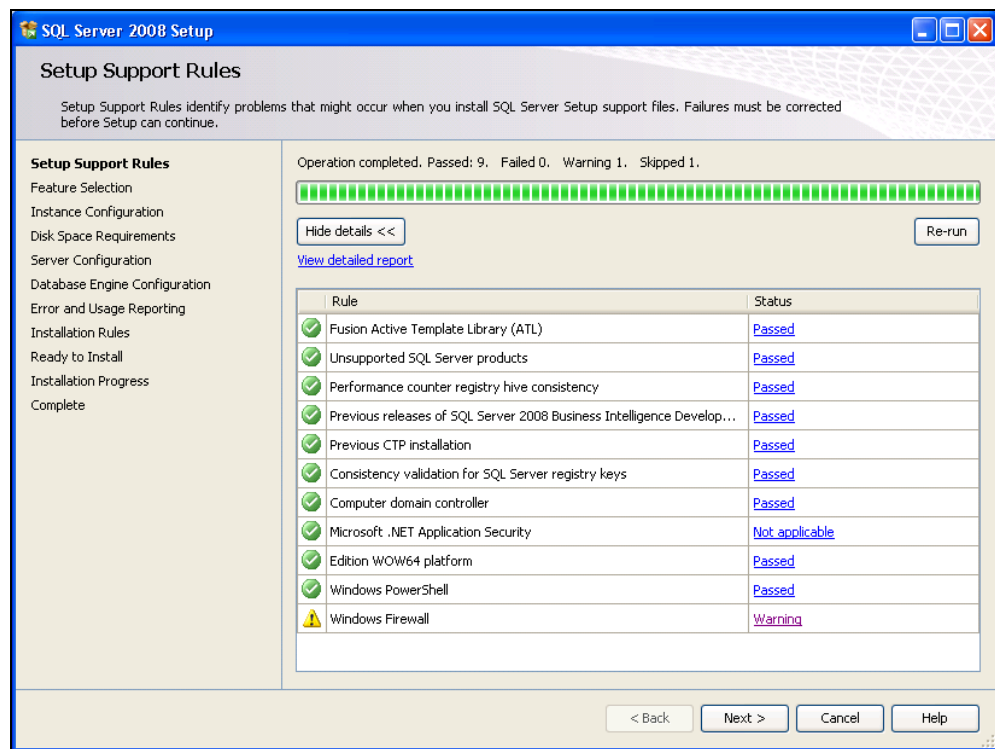


13. Read the **License Terms** and select the **I accept the license terms** check box.

14. Click the **Next** button.

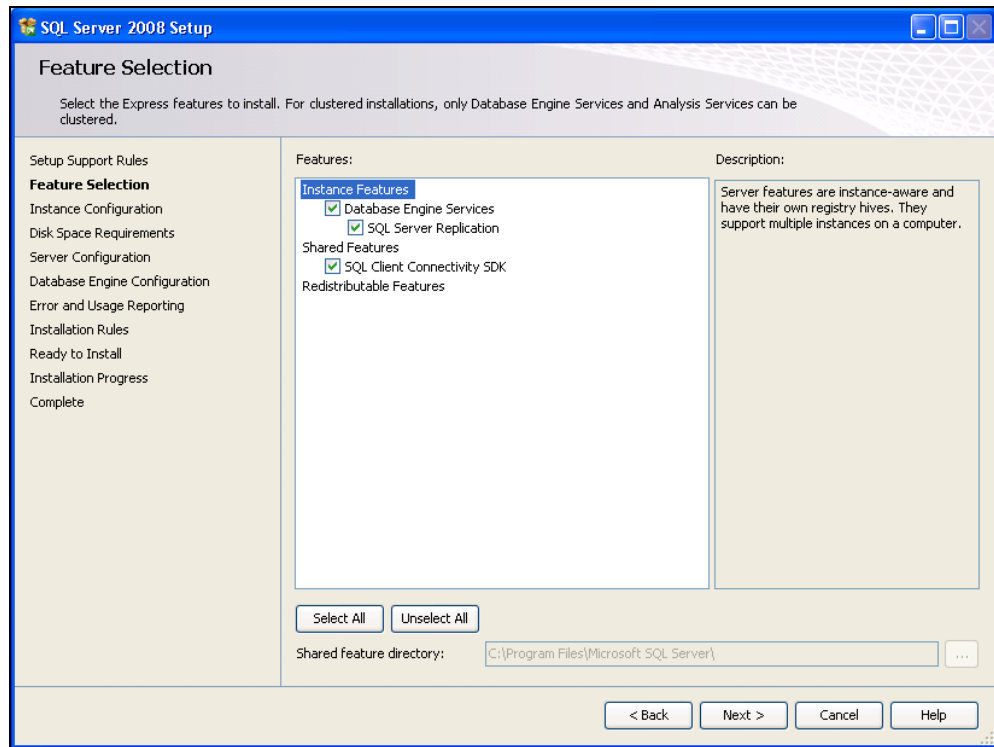


15. Click the **Install** button to install the Setup Support Files.

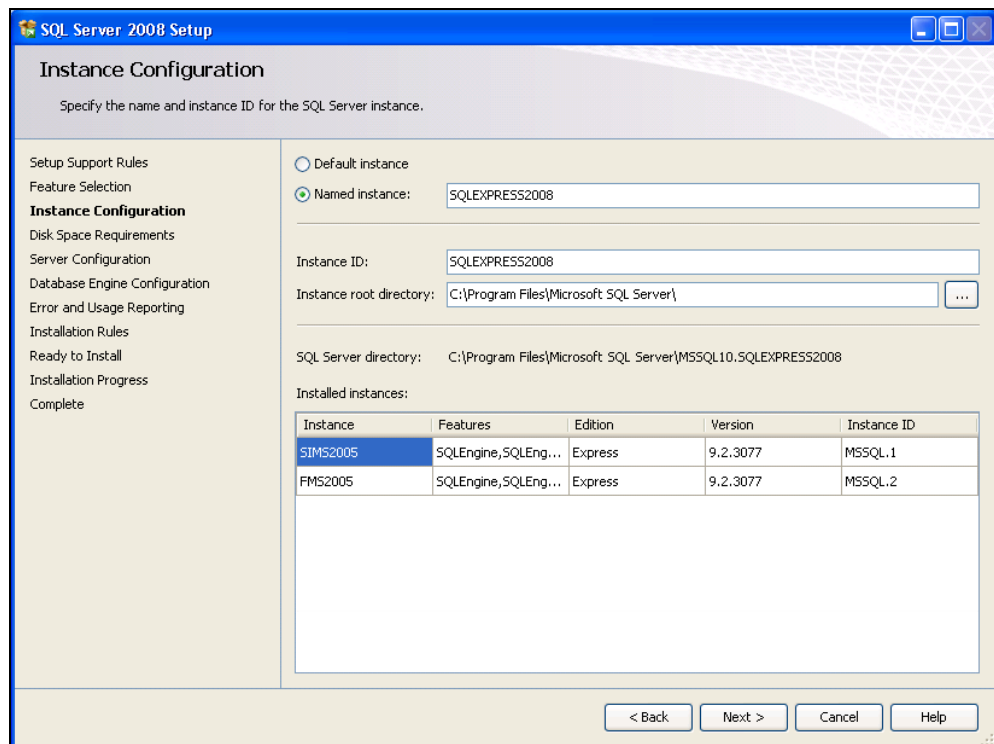


The **Setup Support Rules** page lists all the rules and the **Status**. More information can be obtained by clicking the links.

16. Click the **Next** button to continue.



17. On the **Feature Selection** page, all the available check boxes should be selected. Click the **Next** button.

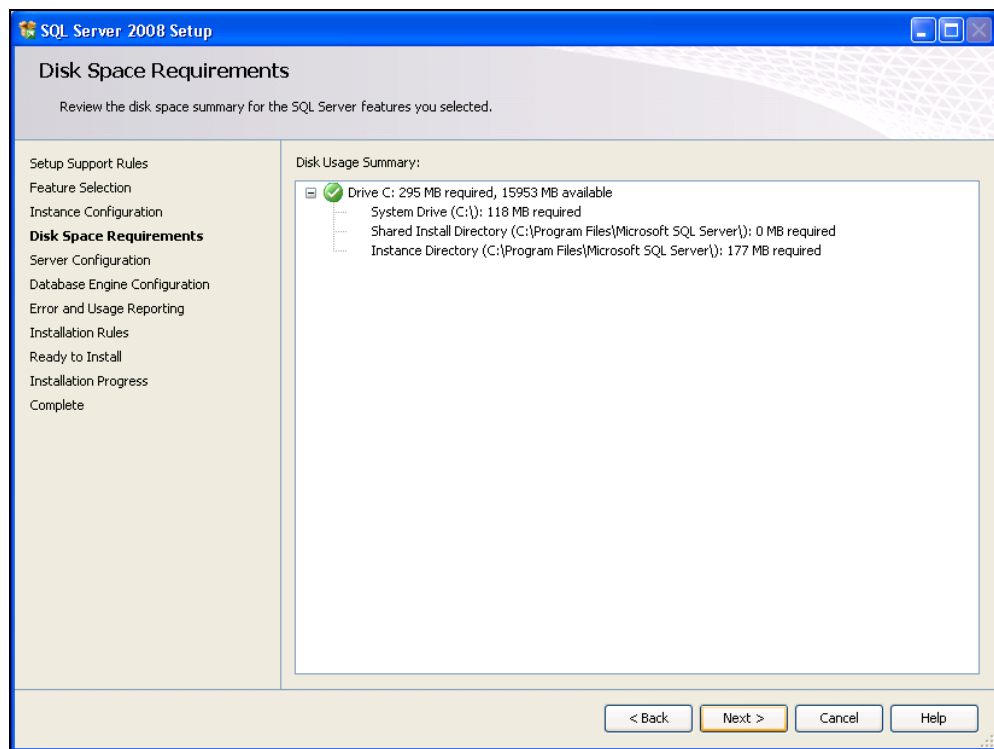


18. The **Instance Configuration** page enables you to name the new instance or to select a **Default instance**. If you install a **Named instance**, the default name provided is SQLEXPRESS2008. This can be edited, as required, e.g. SIMS2008.

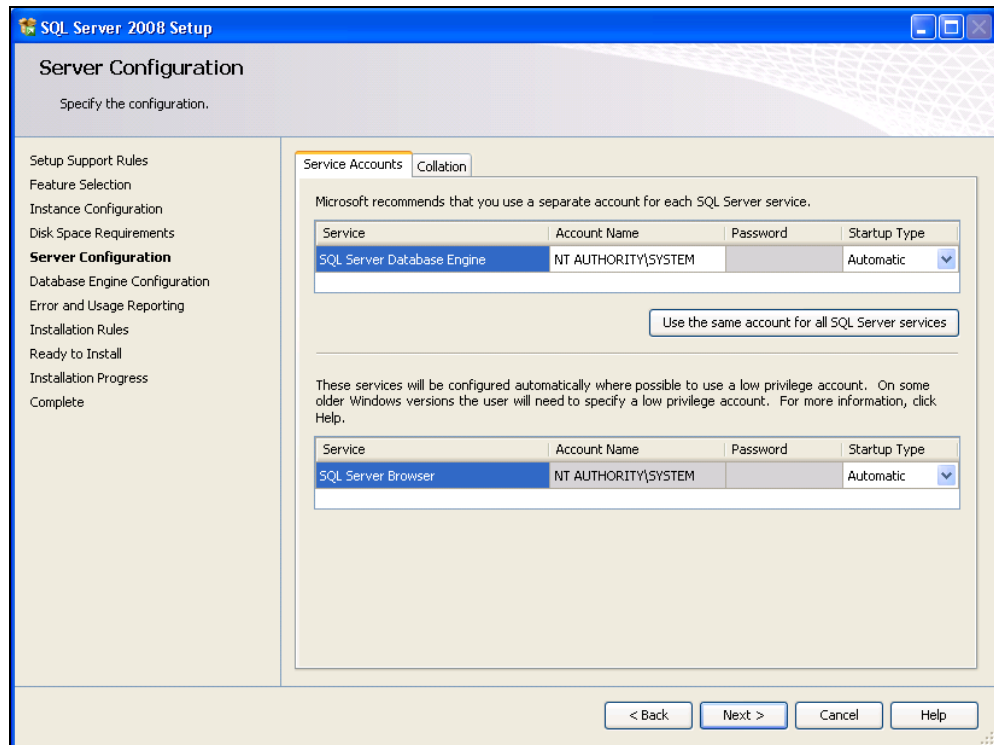


NOTE: The Instance Name must be unique across all instances of SQL on the host system, i.e. different to any existing SQL 2000, SQL 2005 and SQL 2008 instances already on the host machine. Please see Instance Naming Guidelines on page 34 for more information.

19. The **Instance root directory** defaults to the existing Microsoft SQL Server folder. This can be changed to any valid location by clicking the **Browser** button and selecting an alternative location.
20. Click the **Next** button to continue.

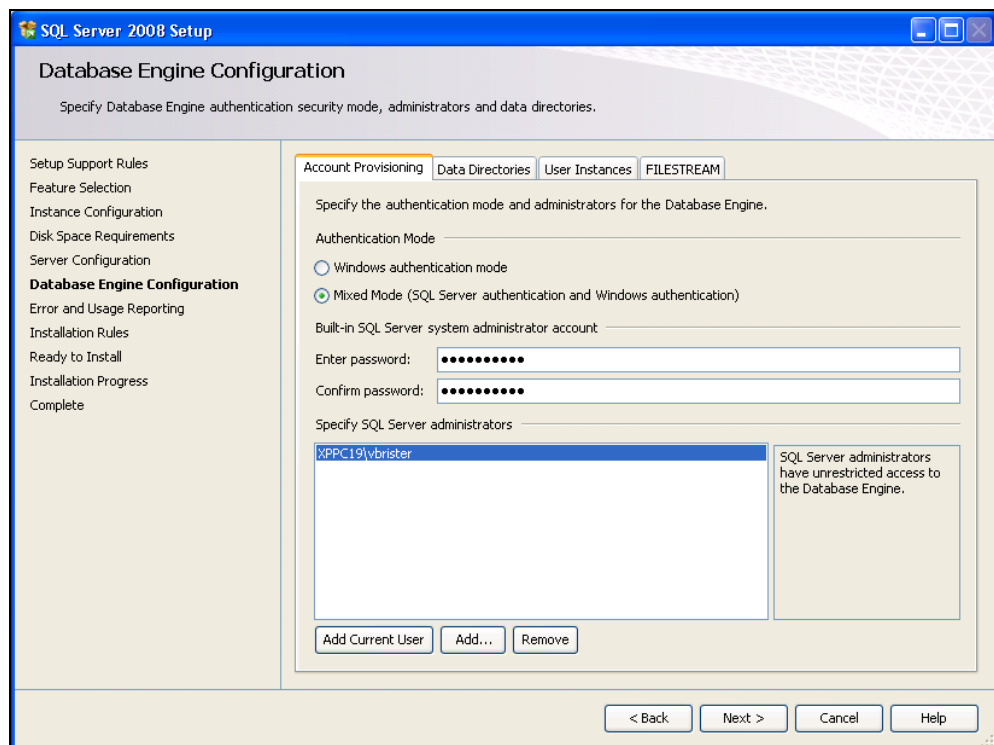


21. Click the **Next** button on the **Disk Space Requirements** page.



The SQL installation is normally run under the local system account, so no action should be taken on the **Server Configuration** page.

22. Click the **Next** button.



The **Database Engine Configuration** screen initially displays the **Account Provisioning** tab.

The **Mixed Mode (SQL Server authentication and Windows authentication)** radio button is selected by default and must remain selected.

23. Enter a System Administrator SQL 2008 Express password and confirm the password in the fields provided. Passwords should be memorable (this password will be required again later in the migration process and for other SQL System Administrator tasks), be more than eight characters long and should satisfy the following Strong Password criteria:

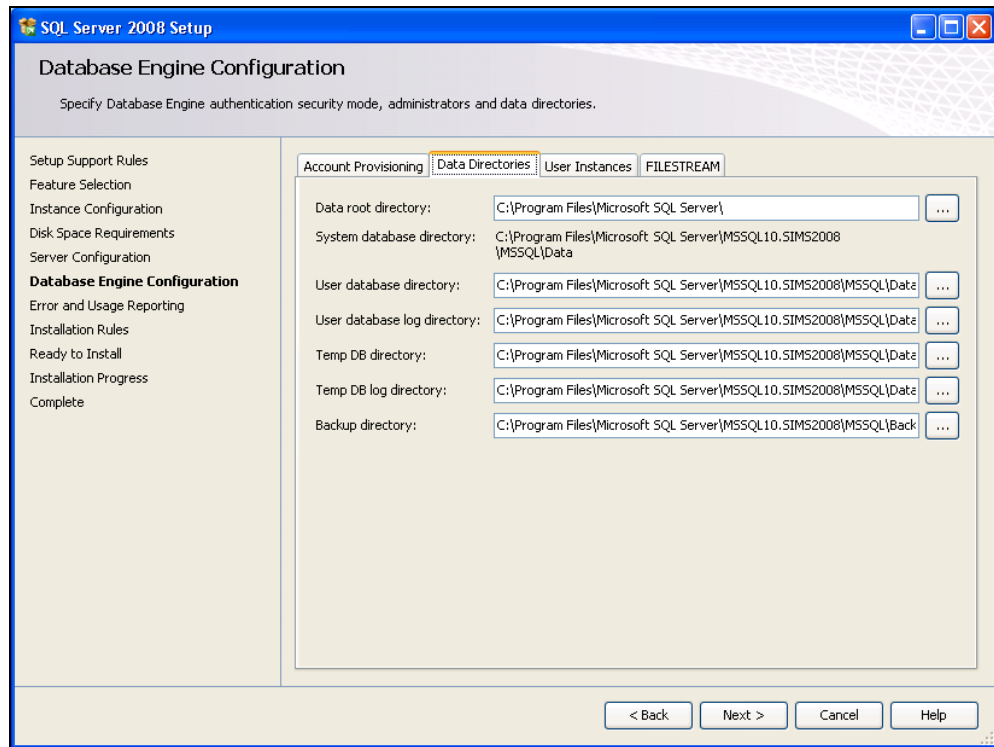
- Must contain uppercase letters
- Must contain lowercase letters
- Must contain numbers
- Must contain non-alphanumeric characters, e.g. .#_~!.



NOTE: Some non-alphanumeric characters have specific meanings in batch files, e.g. &. Therefore, if batch files are used for SQL 2008 maintenance, care must be taken on the selection of any non-alphanumeric characters used in the password.

- Must not be:
 - 'Password'
 - 'Admin'
 - 'Administrator'
 - 'sa'
 - 'sysadmin'
 - the name of the user currently logged onto the machine
 - the machine name
 - a blank or NULL condition.

24. Select the **Data Directories** tab.



25. The locations listed follow on from the **Data root directory** specified. Alternative locations can be specified by clicking the appropriate **Browse** button and selecting a different folder.

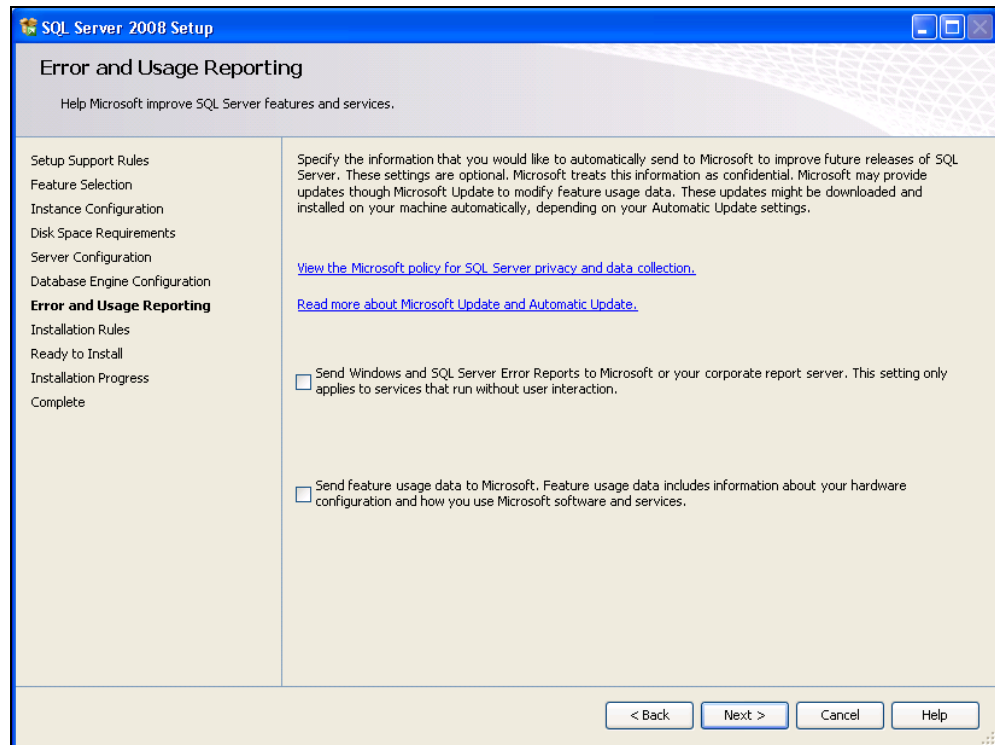


NOTES: Before changing any locations, you are advised to ensure that there is sufficient disk space in that location for the specified function.

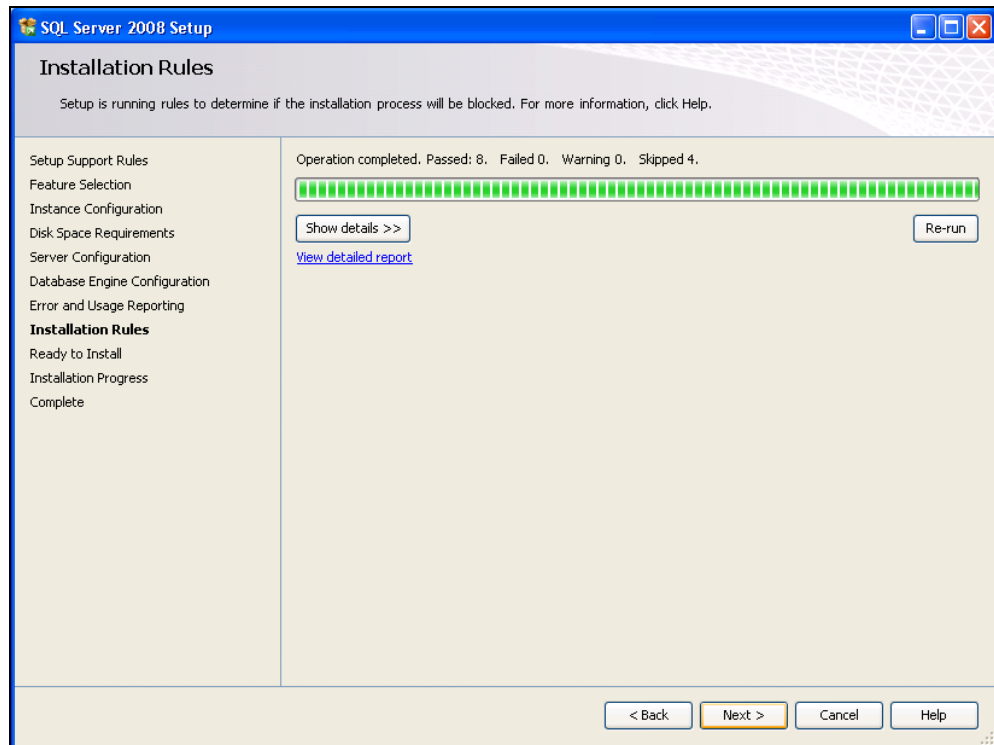
From the SIMS 2009 Autumn Main Release onwards, SIMS backups can be directed to any appropriate drive/folder and will ignore the **Backup directory** specified here.

It is not anticipated that any changes are made on the **User Instances** and **FILESTREAM** tabs. If changes are required, please refer to the appropriate SQL documentation.

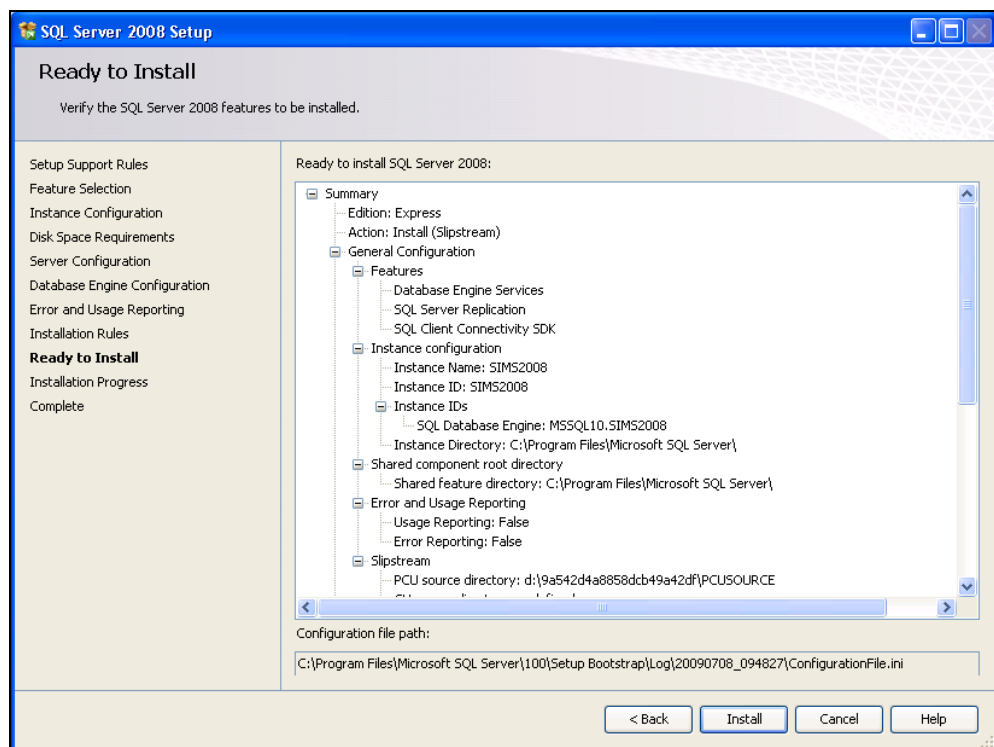
26. Click the **Next** button.



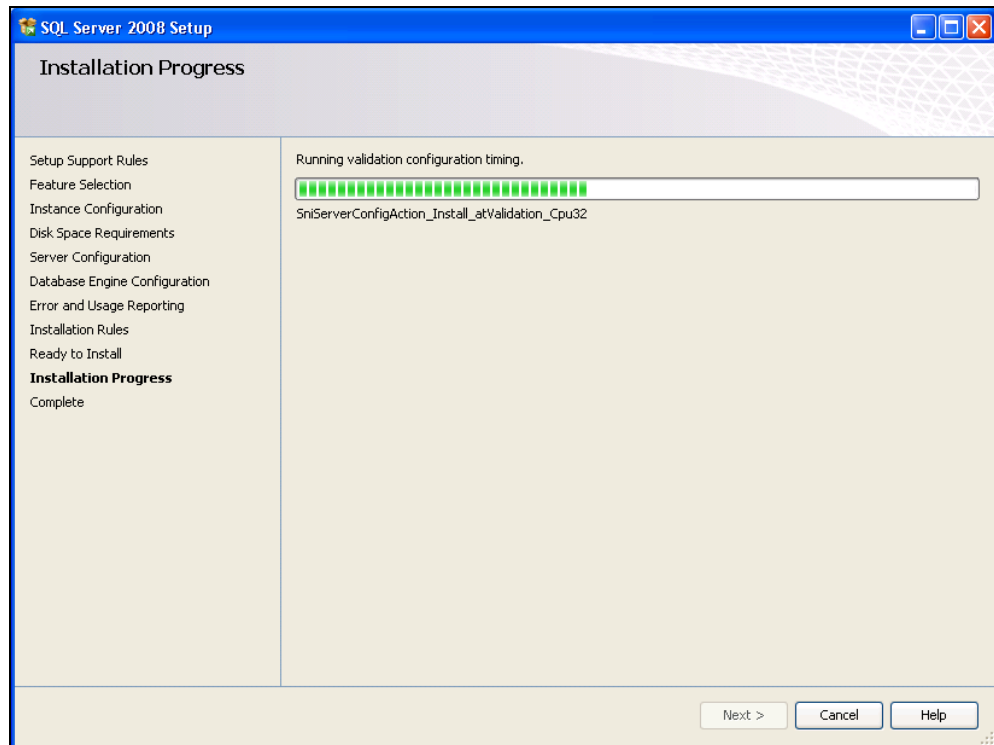
27. On the **Error and Usage Reporting** page, you can view more information on the Microsoft policy for SQL Server privacy and data collection and Microsoft updates by clicking the appropriate links. If required, select the required check box(es).
28. Click the **Next** button.



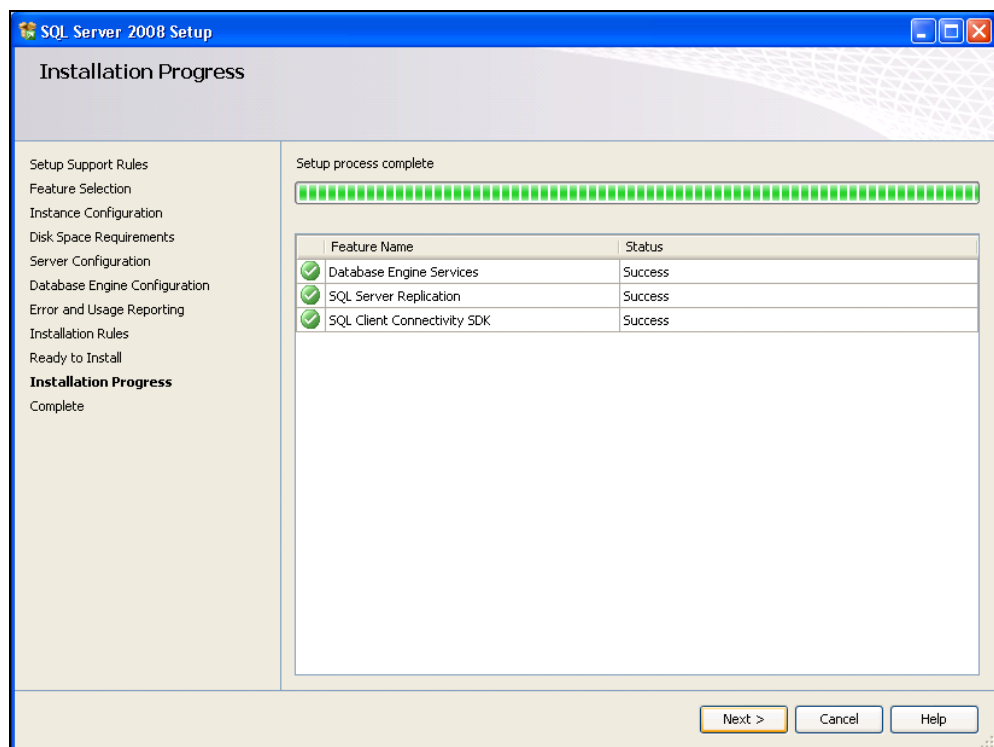
29. Click the **Next** button.



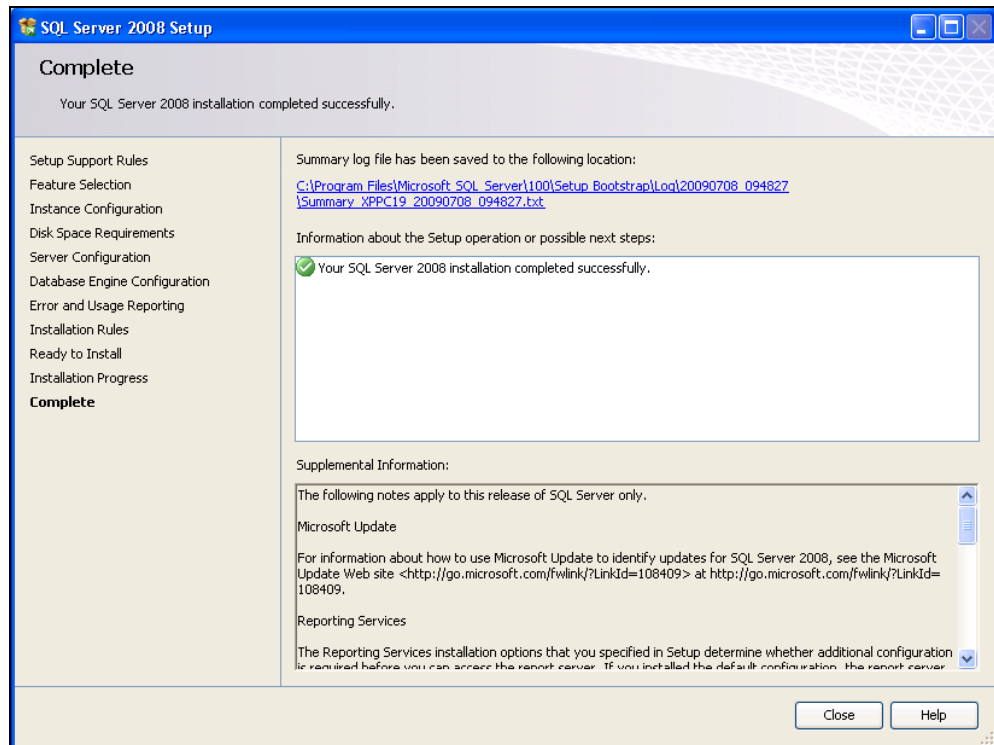
30. The **Ready to Install** page lists the activities to be carried out. Click the **Install** button to install SQL Express 2008 or the **Back** button to return to any previous screens to change any settings.



The **Installation Progress** screen is displayed during the installation.



31. Once the **Installation Progress** screen shows that the processes have been successfully carried out, click the **Next** button.



32. Read the information provided on the **Complete** screen and click the **Close** button.

Migrating the SIMS Database to SQL 2008

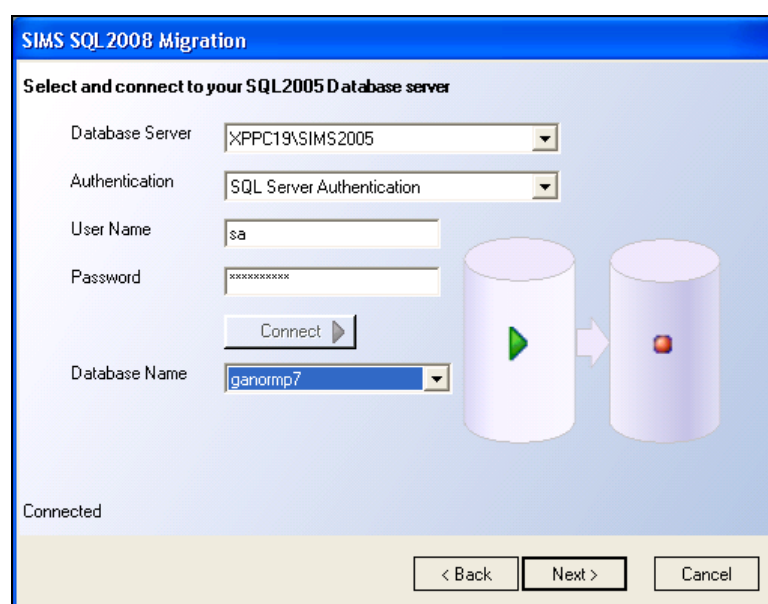


IMPORTANT NOTES: The SIMS SQL Migration Utility can only be run on the machine on which it is installed, i.e. the SIMS Server. It cannot be run from a mapped network drive.

Ensure that a full backup of the database is taken prior to beginning the migration process.



1. If you are carrying out a non-standard migration and require the advanced options, e.g. moving SIMS to a different server, select the **Show Advanced Options** check box. The advanced options:
 - enable you to manually select the source database file, if required.
 - enable you to choose not to specify a target server at the time that the database is prepared, e.g. when you want to prepare an offline SQL 2008 hosted SIMS database that you intend to host on a different machine to the current SQL Server machine. Further details of this method are available in *Setting Up a New Machine as the SQL 2008 Host* on page 32.
2. Click the **Next** button.



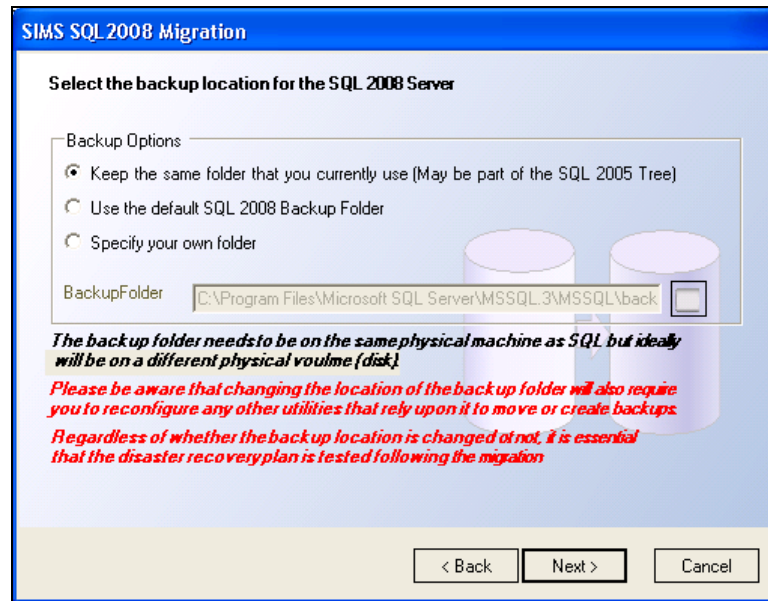
3. On the **Select and connect to your SQL2005 Database server** page, select the **Database Server** (i.e. SQL 2005 instance) that is used for SIMS, e.g. SIMS2005.
4. Select the appropriate **Authentication** from the drop-down list.
5. If **SQL Server Authentication** is selected, enter the **User Name** and **Password** of the SA user or a user with equivalent rights.
6. Click the **Connect** button.
7. Select the **Database Name** of the SIMS database you wish to migrate.



NOTE: Only databases upgraded to the Autumn 2009 (or later) version of SIMS are available for selection.

8. Click the **Next** button.

9. On the **Select and connect to your SQL2008 Database server** page, select the **Database Server** (i.e. SQL 2008 instance) that is going to host SIMS, e.g. SIMS2008.
 10. Select the appropriate **Authentication** from the drop-down list.
 11. If **SQL Server Authentication** is selected, enter the **User Name** and **Password** of the SA user or user with equivalent rights (as entered in step 22 on page 18).
 12. Click the **Connect** button.
- The **Database Name** field is populated with the previously selected SQL 2005 database name.
13. Click the **Next** button.



The **Select the backup location for the SQL 2008 Server** page enables you to select the appropriate backup location for your SIMS database.



NOTES: If you are using the Advanced Options to migrate a database that has been moved from a different machine, you will not be able to select the first radio button (as, in these circumstances, it would not be possible to use the same backup folder as this would be on a different machine).

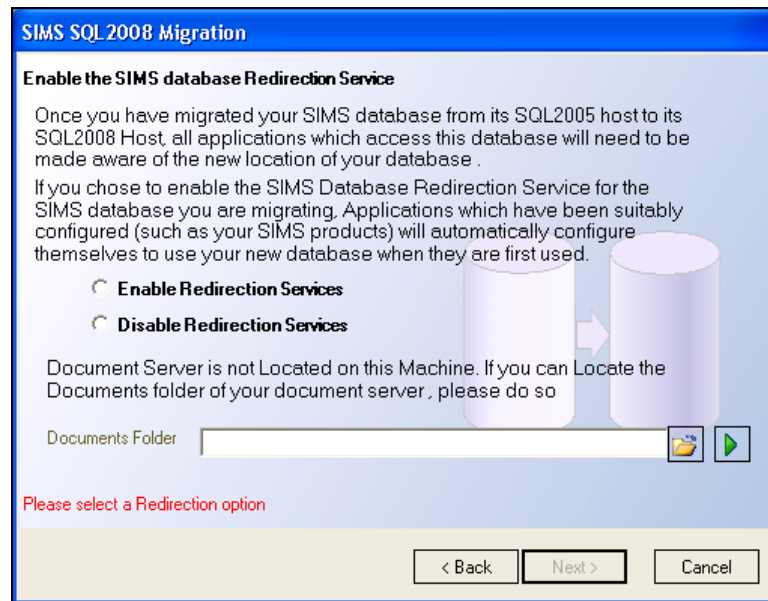
If you are using the Advanced Options to migrate a database which will then be moved to a different machine, you will not be able to select any options on this page as the backup directory must be defined on the machine the database will be moved to, not the current machine.

14. Select from the following options:

- **Keep the same folder that you currently use (May be part of the SQL 2005 Tree)**
Select this radio button to keep your current (i.e. SQL 2005) backup location folder. If you select this option, you will not need to reconfigure any utilities that rely on the location to move or create backups.
- **Use the default SQL 2008 Backup Folder**
If you select this radio button, the SIMS database backup will use the default SQL 2008 folder. You will need to reconfigure any utilities that rely on the backup location to move or create backups.
- **Specify your own folder**
This is the recommended option. Ideally, the backup should be on a separate disk drive to the database, but on the same physical machine. If this action moves your backup folder location, you will need to reconfigure any utilities that rely on the backup location to move or create backups.

If you select this option, you will need to specify the **BackupFolder**.

15. Click the **Next** button.



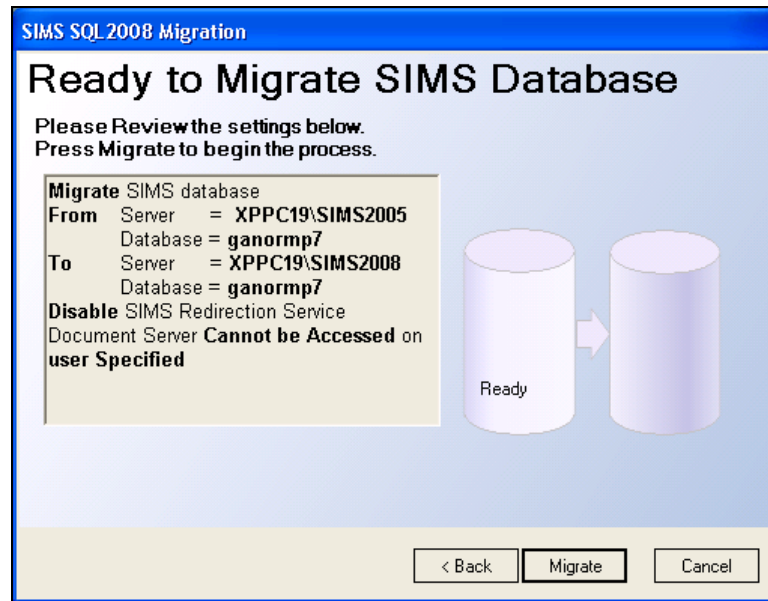
The **Enable the SIMS database Redirection Service** page requires you to enable or disable this service. One of the radio buttons must be selected. Please see *What Does the Redirection Service Do?* on page 3 for more information on the service.

16. To enable the service, select the **Enable Redirection Services** radio button. If the Document Server is located in the default location, this is listed in the **Documents Folder** field. If it is in a different location, click the **Open File** button to locate the appropriate folder. Click the green arrow button to ensure the location is recognised.

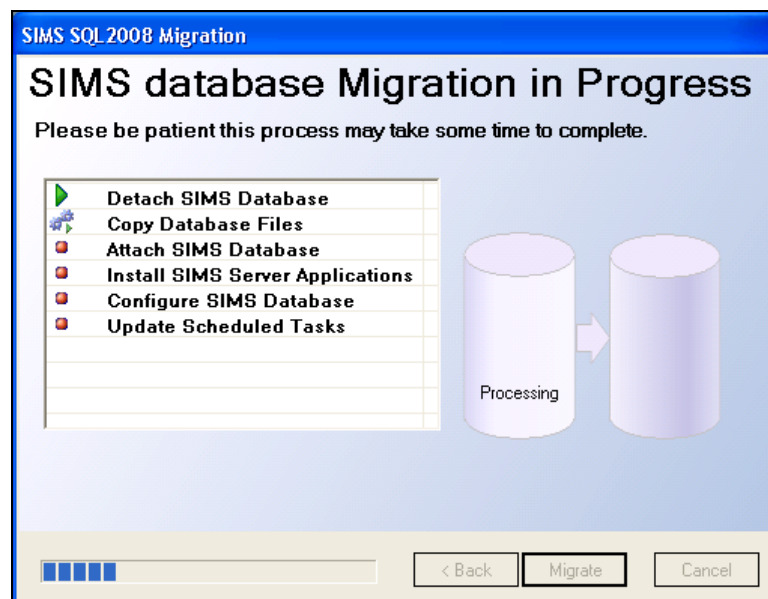


NOTE: The **Documents Folder** field must be populated with a valid location in order to enable the redirection service.

17. If the redirection service is not required, select the **Disable Redirection Services** radio button.
18. Click the **Next** button.



19. The **Ready to Migrate SIMS Database** page details the settings that will be applied during the migration process. To amend any settings, click the **Back** button. Click the **Migrate** button to carry out the migration.



The **SIMS database Migration in Progress** page displays the progress of the migration as it is carried out.



20. Click the **Finish** button to close the wizard.

03 Additional Information

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About the SIMS SQL Migration



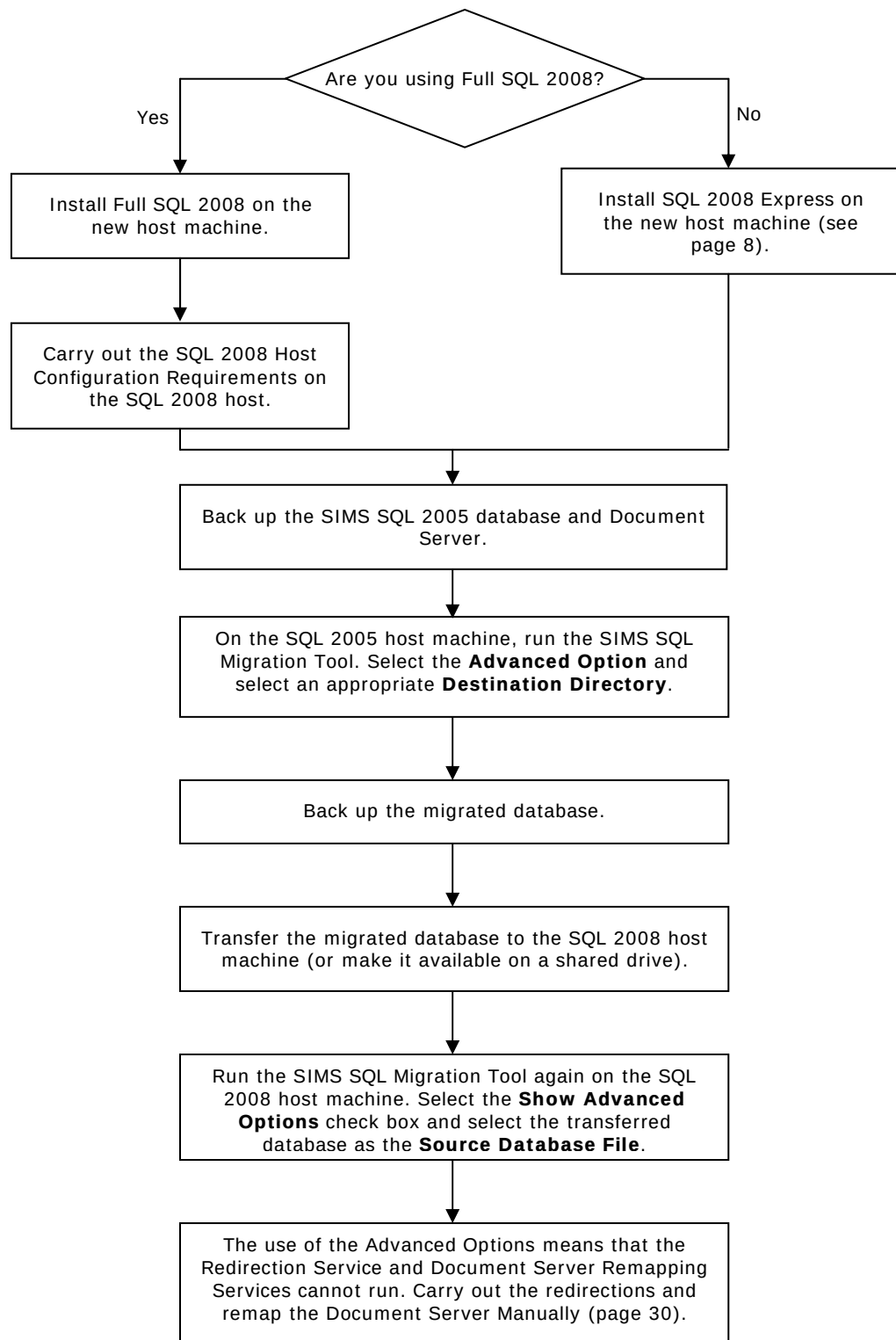
NOTES: The SQL 2005 Database Server will remain available for all non-SIMS purposes during the entire migration process.

Although the SQL 2005 host and the SQL 2008 host can be on separate machines, the SIMS database migration routine functions only in a fully automated manner if both the SQL 2005 host and the SQL 2008 host exist on the same machine.

The Migration Tool has an advanced option, which facilitates more complex migration pathways. By default, the advanced option is deselected. Advanced options allow more flexibility in the process, for example when users want to set up a new machine to host SQL 2008 and move the database across to this.

Setting Up a New Machine as the SQL 2008 Host

The following flowchart describes the order of activity where a school is installing SQL 2008 on a new server and is moving the migrated database across to this server, i.e. SQL 2005 is on one machine and SQL 2008 is on a different machine.



Manually Redirecting SIMS and Remapping the Document Management Server

These instructions are provided as guidance for users who are not using the Redirection Service and Document Server Remapping Service.

Redirecting SIMS

To manually redirect SIMS, search for every `Connect.ini` file on your system and edit each one so that it points to the correct (SQL 2008) `ServerName` and `DatabaseName`.

Where 'redirect' `Connect.ini` files are in use, only the `Connect.ini` that the redirect service points to needs to be edited. For example, the `Connect.ini` files held on a client machine in `Program Files\SIMS` may be redirect `Connect.ini` files and not require editing, but the `Connect.ini` held in the `SIMS\Setups` folder on the server will require the new SQL 2008 `ServerName` and converted `DatabaseName` (if this has changed) to be edited.

Remapping the Document Management Server



NOTE: These actions should be carried out on the Document Management Server machine.

1. Open Windows Explorer and search for the document storage folder. The default location is `C:\DOCSTORAGE` but this may be different in your system. Double-click the folder name.
2. Double-click the folder representing the SQL Server machine name, e.g. `MySIMSDBServer`.
3. Double-click the folder representing the SQL Server 2005 Instance Name, e.g. `SIMS2005`.
4. Locate the folder representing the SIMS database, e.g. `SIMS`.
5. Copy the folder, e.g. `C:\DOCSTORAGE\MySIMSDBServer\SIMS\SIMS`.
6. Create a new folder to represent the new SQL 2008 Instance, e.g. `C:\DOCSTORAGE\MySIMSDBServer\SIMS2008`.
7. Paste the folder copied in step 5 into the newly created folder, e.g. `C:\DOCSTORAGE\MySIMSDBServer\SIMS2008\SIMS`.
8. The old server directory can now be deleted if it is empty.

SQL 2008 Host Configuration Requirements

The SIMS SQL Migration Tool attempts to enable suitable connectivity for SIMS users. Therefore, users who have installed SQL Express this way are unlikely to need to carry out these instructions.

By default, SQL Express is installed with limited or no network connectivity. SIMS is a Client Server Application and so most users will need to enable network connectivity.

For those who have installed SQL 2008 products themselves, the following tasks need to be completed to enable suitable connectivity:

- SQL Server must be configured for local and remote connections (TCP/IP or TCP/IP and Named Pipes)
- SQLBrowser Service must be started (Automatic).

If a firewall is in operation:

- The SQLBrowser Service must be added to the firewall exception list.
- The SQLServer Service must be added to the firewall exception list.



NOTE: SIMS also makes server and database level changes when the SIMS database is migrated to the SQL 2008 host. These changes are made on behalf of all customers, regardless of the method used to install the SQL 2008 host.

Instance Naming Guidelines

Multiple SQL Server 2008 Express installations can co-exist on the same machine, along with other installations of SQL Server 2000, SQL Server 2005 or Microsoft Desktop Engine (MSDE). The maximum limit to the number of SQL Server instances is 16 on the same machine. These instances must be uniquely named.



NOTE: Whilst multiple instances can co-exist on the same machine, this will impair performance and you are advised to retain the minimum number of SQL instances.

- Instance names are not case sensitive.
- Instance names cannot contain the terms Default, MSSQLServer or any other reserved keywords. If a reserved keyword is used in an instance name, an error will occur.
- Instance names are limited to 16 characters.
- The first character in the instance name must be a letter or an underscore (_). Acceptable letters are those defined by the Unicode Standard 2.0, including Latin characters a-z and A-Z, and letter characters from other languages.

- Subsequent characters can be letters defined by the Unicode Standard 2.0, decimal numbers from Basic Latin or other national scripts, the dollar sign (\$), or an underscore (_).
- Embedded spaces or other special characters are not allowed in instance names, nor are the backslash (\), comma (,), colon (:), semi-colon (;), single quotation mark ('), ampersand (&), number sign (#), or at sign (@).

Command Line Parameters

Command line parameters enable a user to set up a script to run the migration in 'batch' mode. A script could be created to minimise the user interaction required to migrate a SIMS database, by pre-populating the screens with the required information. The Command Line Parameters are case sensitive and must be entered correctly for the script to run successfully. For parameters such as paths, quotes will need to be put around the value if there are any spaces in the path.

Parameters



IMPORTANT: Parameter names are case sensitive.

Parameter Name	What it means	Example / Comment
--sInstance --dInstance	The instance name of the source (--sInstance) or destination (--dInstance) SQL Server	--sInstance Server2\Instance2 --dInstance Server1\Instance1 These will be the same for an in place update. Additionally non-local SQL Servers can be specified in command line mode.
--sDatabase --dDatabase	The name of the source (--sInstance) / destination (--dInstance) databases	--sDatabase SIMS2 --dDatabase FMS23 <i>NOTES: You can only change the name of the database during conversion if the advanced option is used.</i> <i>FMS users may be adversely affected by a change of database name on the new SQL Server instance.</i>
--Help	Shows information about the parameters for the migration application	
--Advanced	Allows advanced options to be used.	--Advanced Enables change of destination database name

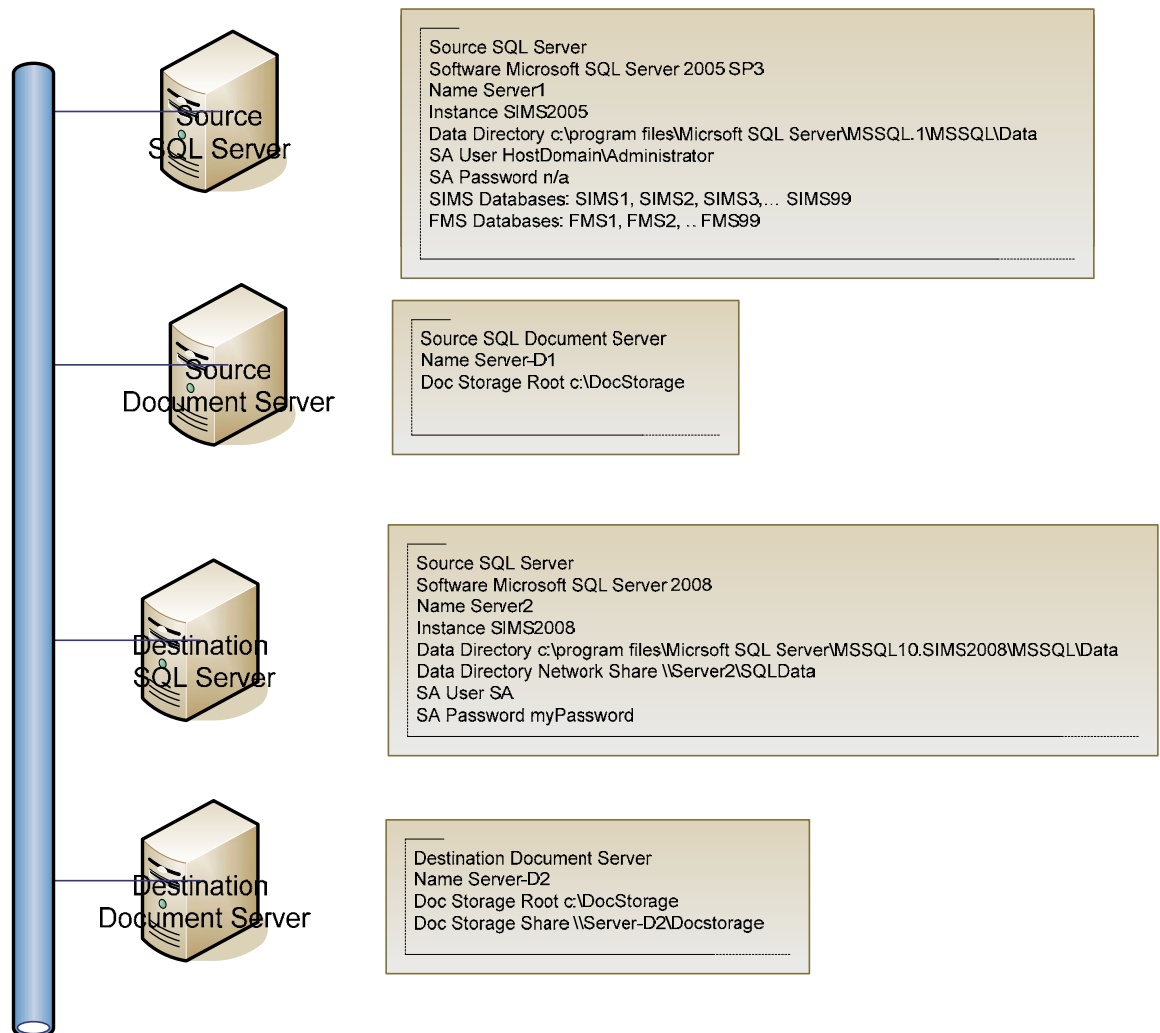
Parameter Name	What it means	Example / Comment
--sPath	Allows the source path of the mdf file to be specified	This allows the database source mdf file to be specified for migration. It assumes that the ldf file has the same name and is located in the same place.
--dPath	Allows the folder for export to be specified.	This folder contains the mdf and ldf exported from the two part manual process.
--BackupPath	Allows the folder for backup to be specified.	If a backup folder is not specified, the backup location will default to the SQL 2008 default backup folder.
--sSQLUser --dSQLUser	A SQL username for the source (--sSQLUser) or destination (--dSQLUser) database.	This must be the username of the SQL System Administrator (SA or equivalent).
--sSQLPwd --dSQLPwd	The SQL user's password for the source (--sSQLPwd) or destination (--dSQLPwd) database.	This must be the password of the SQL System Administrator (SA or equivalent) username entered.
--Silent	Run in silent mode.	Set for automatic migration.
--redirect	Registers the database for redirection services.	
--DMSPath	Allows the path to the Document Server to be specified if not otherwise found.	

Example (on a machine with instances of SQL 2005 and SQL 2008):

```
SQL2008Migration --sInstance Server2\SQL2005 --sDatabase
SIMS1 --sSQLUser SA --sSQLPassword Secret --dInstance
Server2\SQL2008 --dDatabase SIMS1N --dSQLUser SA --dSQLPwd
Secret --DMSPath c:\docstorage --BackupPath=c:\myBackups
--Advanced --Silent --redirect
```


Data Centre Migrations

Capita recommends the use of the command line facilities of the migration tool to produce a script for migration. For example:



Key Points

- Once the SQL migration is complete, the document stores will need to be moved manually to their new location, with the folder name as the new server instance/database name. Shares may be set up to facilitate this but these should be restricted to domain administrators or sub-domain administrators for obvious reasons. Good practice would be to delete the shares after use or to use admin shares.

```
XCOPY C:\DocStorage\Server1\SIMS2005\SIMS1 \\Server-D2\Docstorage\Server2\SIMS1 /S
```

```
XCOPY C:\DocStorage\Server1\SIMS2005\SIMS2 \\Server-D2\Docstorage\Server2\SIMS2 /S
```

```
XCOPY C:\DocStorage\Server1\SIMS2005\SIMS3 \\Server-
D2\Docstorage\Server2/SIMS3 /S
```

...

```
XCOPY C:\DocStorage\Server1\SIMS2005\SIMS99 \\Server-
D2\Docstorage\Server2/SIMS99 /S
```

(There are no FMS document storage folders)

- Typically, redirection will not work in a Citrix / Terminal Server / Centrally hosted database server environment and is not supported by the command line parameters. Typically, terminal server / Citrix environments use redirection techniques to manage their system. This usually makes it relatively easy to update the one per school (fms)connect.ini files centrally.
- Scripting the migration is relatively straight forward. This is achieved in two phases, as illustrated in the following examples.

Examples:

On the SQL 2005 Server

```
SQL2008Migration --sInstance Server2\SQL2005 --
sDatabase SIMS1 --sSQLUser SA --sQLPwD Secret
--dPath c:\TransferFolder --Advanced --Silent

SQL2008Migration --sInstance Server1\SQL2005 --
sDatabase SIMS2 --sSQLUser SA --sQLPwD Secret
--dPath c:\TransferFolder --Advanced --Silent

SQL2008Migration --sInstance Server1\SQL2005 --
sDatabase SIMS3 --sSQLUser SA --sQLPwD Secret
--dPath c:\TransferFolder --Advanced --Silent

SQL2008Migration --sInstance Server1\SQL2005 --
sDatabase SIMS99 --sSQLUser SA --sQLPwD Secret --
dPath c:\TransferFolder --Advanced --Silent
```

This detaches SIMS1, 2, 3 and 99 and puts the MDF and LDF into the C:\TransferFolder.

These may then need to be moved to the new server:

```
XCOPY C:\TransferFolder\*.*
\\Server2\SQLData\TransferFolder\*.*
```

On the SQL 2008 Server



NOTE: This needs to move into any folder other than the SQL Data folder. It will not work if the files already exist in the SQLData folder.

```
SQL2008Migration --dInstance Server1\SQL2008 --dDatabase
SIMS1N --dSQLUser SA --dSQLPwd Secret --dPath "c:\program
files\Microsoft SQL
Server\MSSQL10.SIMS2008\MSSQL\Data\TransferFolder\
SIMS1.mdf" --Advanced --Silent

SQL2008Migration --dInstance Server1\SQL2008 --dDatabase
SIMS2 --dSQLUser SA --dSQLPwd Secret --dPath "c:\program
files\Microsoft SQL
Server\MSSQL10.SIMS2008\MSSQL\Data\TransferFolder\
SIMS2.mdf" --Advanced --Silent

SQL2008Migration --dInstance Server1\SQL2008 --dDatabase
SIMS3N --dSQLUser SA --dSQLPwd Secret --dPath "c:\program
files\Microsoft SQL
Server\MSSQL10.SIMS2008\MSSQL\Data\TransferFolder\
SIMS3.mdf" --Advanced --Silent

SQL2008Migration --dInstance Server1\SQL2008 --dDatabase
SIMS99 --dSQLUser SA --dSQLPwd Secret --dPath "c:\program
files\Microsoft SQL
Server\MSSQL10.SIMS2008\MSSQL\Data\TransferFolder\
SIMS99.mdf" --Advanced --Silent
```

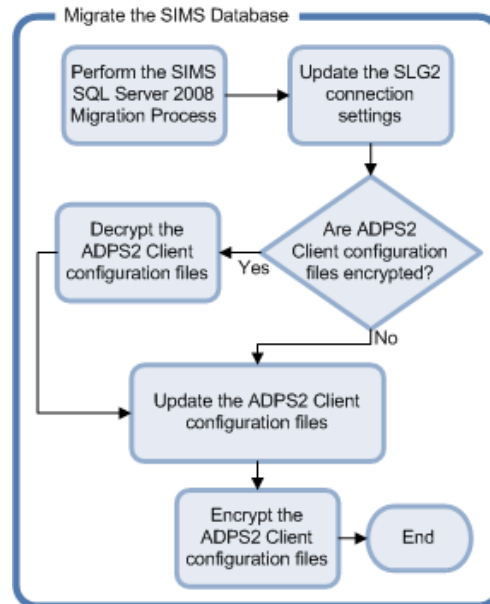
You can then re-attach them and complete the migrations.



NOTE: In this example, SIMS1 and SIMS3 are also renamed to SIMS1N and SIMS3N, to illustrate how this is carried out.

Additional Migration Tasks for ADPS2 / SLG2 Users

The following sections describe the additional tasks necessary for ADPS2 and SLG2 customers when migrating the SIMS database to SQL Server 2008.



Decrypting the ADPS2 Client Configuration Files

If you have encrypted the ADPS2 Client configuration files, you must decrypt the SIMS Web Service web.config file and ADPS2 Client Scheduled Process ConnectionSettings.xml file before making the configuration file updates on each ADPS2 Client.

If you have not encrypted these files, you can skip directly to *Updating the ADPS2 Client Configuration Files* on page 42.



NOTE: When using a 64-bit machine, you must substitute *Program Files* with *Program Files (x86)* in the file path.

1. Login to the machine hosting the ADPS2 Client as an Administrator.
2. In Windows Explorer, navigate to C:\Program Files\SIMS\ADPCClient\Encryption Utilities\.

- Run ConfigEncryptor.exe to display the **ASP.Net Password Encryptor** dialog.

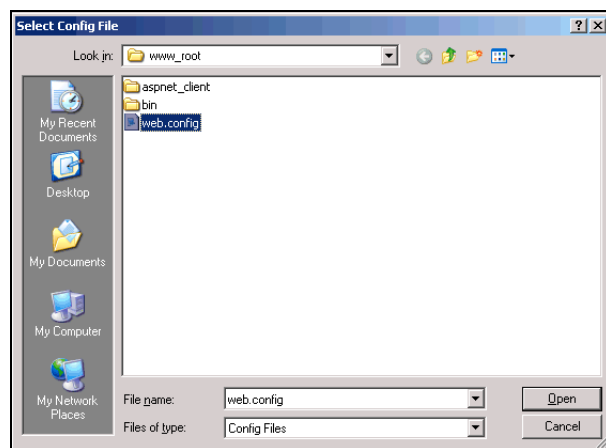


- Click the **Browse** button to display the **Open** dialog.

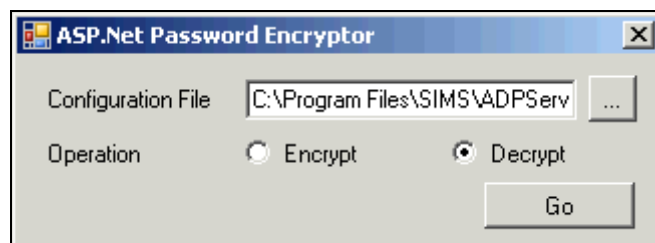


Browse button

- Navigate to the location of the web.config file for your SIMS Web Service www_root folder (usually C:\Program Files\SIMS\ADPClient\www_root\web.config), then highlight the web.config file and click the **Open** button.



- Select the **Decrypt** radio button then click the **Go** button to decrypt the file. Once the file has been decrypted, the **Success** dialog is displayed.

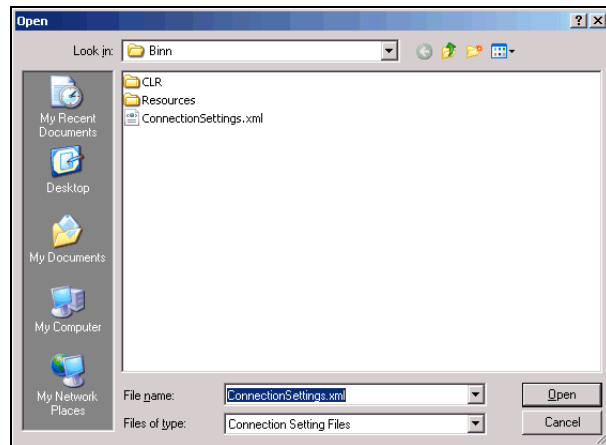


- Click the **Browse** button to display the **Open** dialog.



Browse button

8. Navigate to the location of the ConnectionSettings.xml file (usually C:\Program Files\SIMS\ADPClient\ChangeTracking\ on the SIMS server), then highlight it and click the **Open** button.

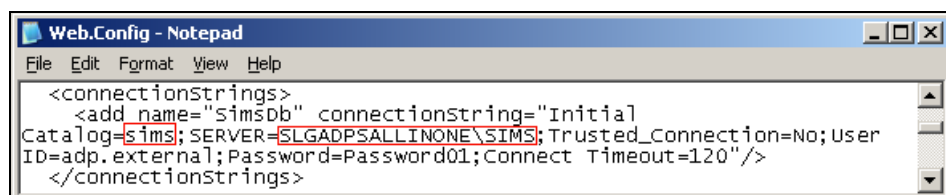


9. Select the **Decrypt** radio button then click the **Go** button to decrypt the file. Once the file has been decrypted, the **Success** dialog is displayed.
10. If necessary, repeat this procedure on all of the ADPS2 Clients affected by the SIMS database being migrated to SQL Server 2008.

Updating the ADPS2 Client Configuration Files

You must perform this procedure for each school that has migrated its SIMS database to SQL Server 2008.

1. Login to the machine hosting the ADPS2 Client as an Administrator.
2. In Windows Explorer, navigate to the location of the web.config file for your SIMS Web Service www_root folder (usually C:\Program Files\SIMS\ADPClient\www_root\web.config), then right-click the web.config file and select **Edit** from the pop-up menu to open the file in Notepad.



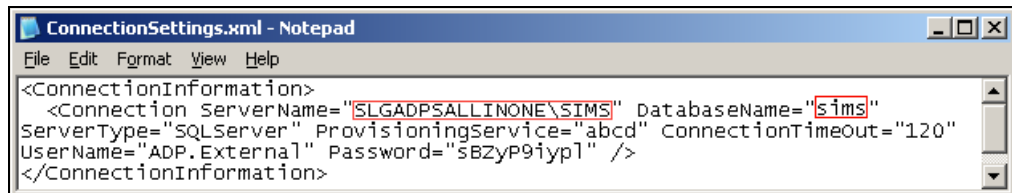
3. Change the Catalog and SERVER entries (as shown in the image) to those of the migrated SIMS database.



IMPORTANT NOTE: As of ADPS2 August Update Release (SIMS 7.122) the web.config file can contain connection information for multiple SIMS databases. In this situation you must ensure that you update the settings for all SIMS databases that have been migrated to SQL Server 2008.

4. Select **File | Save** and close Notepad.

5. In Windows Explorer, navigate to the location of the ConnectionSettings.xml file (usually C:\Program Files\SIMS\ADPClient\ChangeTracking\ on the SIMS server), then right-click the ConnectionSettings.xml file and select **Open With | Notepad** from the pop-up menu to open the file in Notepad.



6. Change the ServerName and DatabaseName entries (as shown in the image) to those of the migrated SIMS database.



IMPORTANT NOTE: As of ADPS2 August Update Release (SIMS 7.122) the ConnectionSettings.xml file can contain connection information for multiple SIMS databases. In this situation you must ensure that you update the settings for all SIMS databases that have been migrated to SQL Server 2008.

7. Select **File | Save** and close Notepad.

Encrypting ADPS2 Client Configuration Files

Even if you did not originally encrypt the ADPS2 Client configuration files, it is highly recommended that you encrypt them after making the configuration file updates.



NOTE: When using a 64-bit machine, you must substitute Program Files with Program Files (x86) in the file path.

1. Login to the machine hosting the ADPS2 Client as an Administrator.
2. In Windows Explorer, navigate to C:\Program Files\SIMS\ADPClient\Encryption Utilities\.
3. Run ConfigEncryptor.exe to display the **ASP.Net Password Encryptor** dialog.

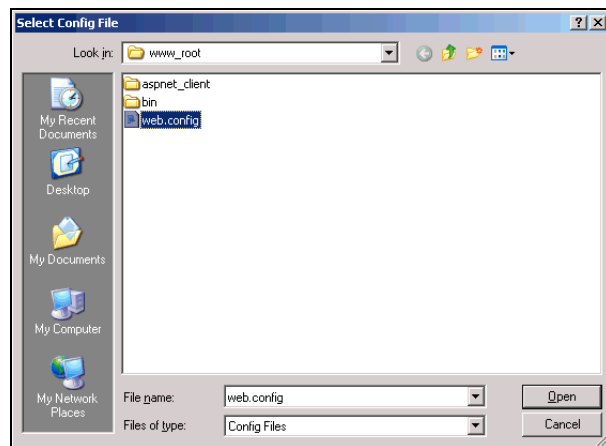


4. Click the **Browse** button to display the **Open** dialog.

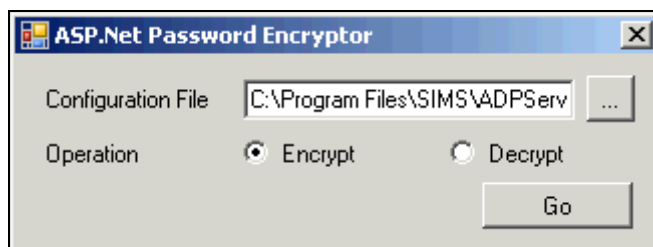


Browse button

5. Navigate to the location of the web.config file for your SIMS Web Service www_root folder (usually C:\Program Files\SIMS\ADPClient\www_root\web.config), then highlight the web.config file and click the **Open** button.



6. Select the **Encrypt** radio button then click the **Go** button to encrypt the file. Once the file has been encrypted, the **Success** dialog is displayed.

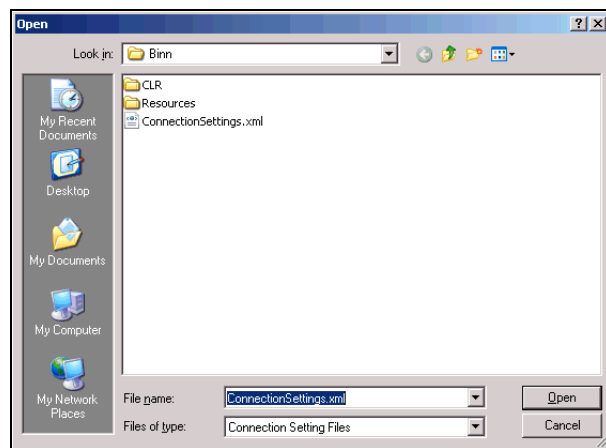


7. Click the **Browse** button to display the **Open** dialog.



Browse button

8. Navigate to the location of the ConnectionSettings.xml file (usually C:\Program Files\SIMS\ADPClient\ChangeTracking\ on the SIMS server), then highlight it and click the **Open** button.



9. Select the **Encrypt** radio button then click the **Go** button to encrypt the file. Once the file has been encrypted, the **Success** dialog is displayed.
10. If necessary, repeat this procedure on all of the ADPS2 Clients affected by the SIMS database being migrated to SQL Server 2008.
11. If you also run SLG2, please continue to the next section.

Updating the SLG2 Connection Settings

You must perform this procedure for each school that has migrated its SIMS database to SQL Server 2008.

1. Login to the SLG2 School Site as an Administrator.



IMPORTANT NOTE: If you do not have Administrator access, you must contact your Local Authority or hosting organisation and ask them to make the changes described in this procedure on your behalf.

2. Click the **Manage Registered School Page** link in the **School Administration Site** menu on the left-hand navigation bar to display the **Edit School Registration Details** page.

Green Abbey School > School Administration Site > SLGPages > SiteManageRegisteredSchool

School Administration Site

Edit School Registration Details << Back

Use this page to register a school with SLG.

School Server Type the address of the school's server that you would like to register.	Server Address: 192.168.130.128\SIMS e.g. 127.1.1.1\sims
School Database Type the name of the school's database.	Database Name: sims e.g. sims
User Name and Password Type the user name and password to connect to the school's database. This should be a user name and password specifically set up by the school.	User Name: SLG.External Password:

Connect Update

sim support

3. Update the **Server Address** and **Database Name** fields to point at the migrated SIMS database.
4. Click the **Update** button.