

# INSTALLING SQL SERVER EXPRESS 2008 FOR USE BY NASIS

## Section 1

NASIS version 6.1.2 and higher uses Microsoft's SQL Server Express 2008 database as a local repository for soils data. In order for NASIS to use this database in a reliable and secure fashion it must be installed correctly. This document describes the install of SQL Server Express for both USDA users and non-USDA users.

In the case of USDA users SQL Server Express will be installed by SMS in a CCE-approved fashion. Non-USDA users will have to follow the instructions below to do their own SQL Server Express installation. Even if a user already has SQL Server Express it will be necessary to do this installation to create a SQL Server instance named "NasisSqlExpress".

Once SQL Server Express is installed, the NASIS Editor installer will make changes to the named database instance. By using our own named instance we can make the database even more secure and avoid stepping on other database instances which might exist on the client computer.

Some of the changes the NASIS Editor installation will make include:

- Remove the `Builtins\Administrators` group. This makes the database secure from changes made by anything other than the NASIS Editor
- Modify the `Builtins\Users` group to be read-only. Again, this protects the database.
- Turn on mixed-mode authentication and install a NASIS-only `sysadmin` user. The user and password will be known only to the installer app and the NASIS Editor, and exists only in encrypted form on disk.

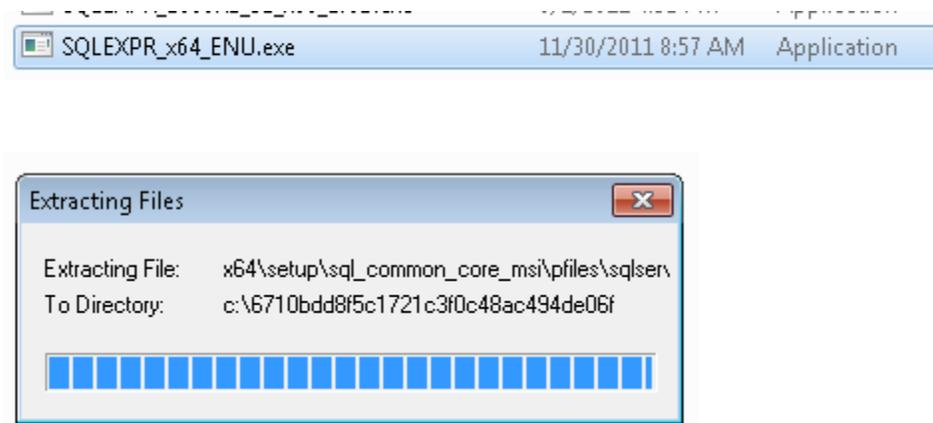
## Section 2

The screenshots below show all the detail required to install a SQL Server Express 2008 instance.

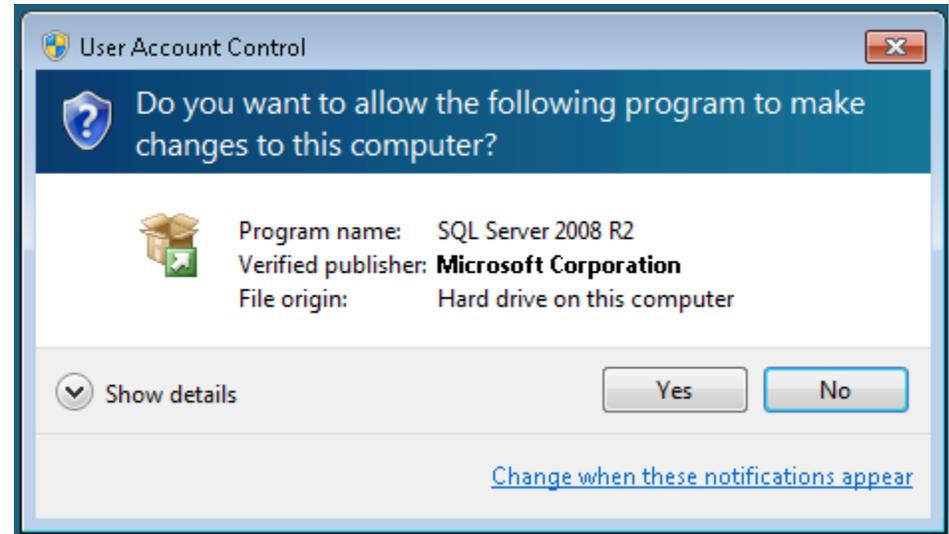
The installation package can be obtained from a Microsoft download site such as <http://www.microsoft.com/en-us/download/details.aspx?id=26729>. Be sure to select either the 32-bit or 64-bit version that's right for your workstation. You may want to select the version with additional database tools, but they are not required to use NASIS.

In the following series of installation screens, the default actions are used. If some screen appears that is not shown in the instructions, just hit Next.

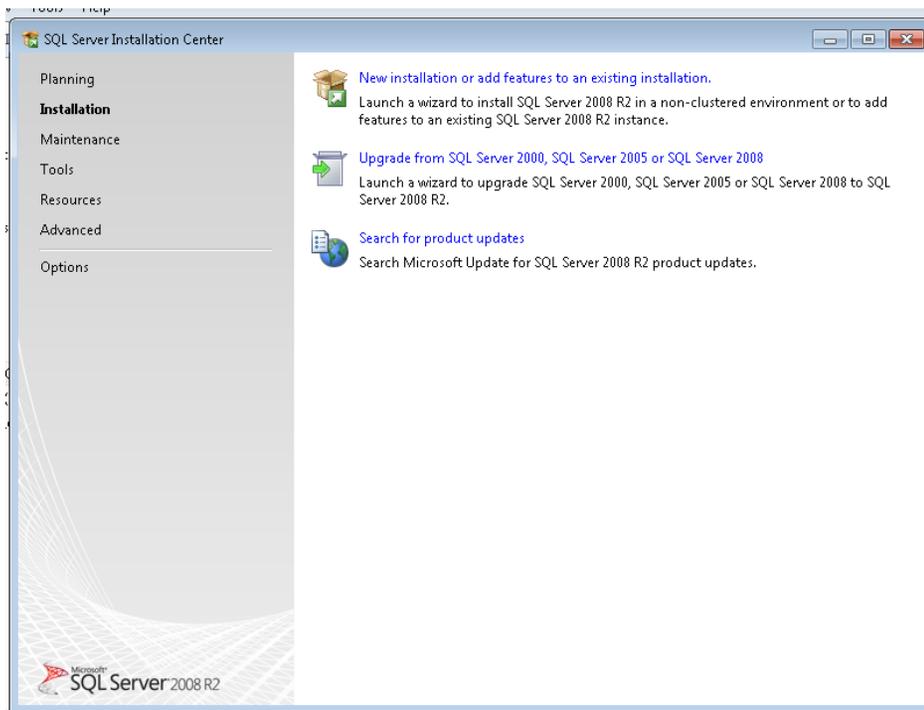
Double click on the downloaded installer file, such as:



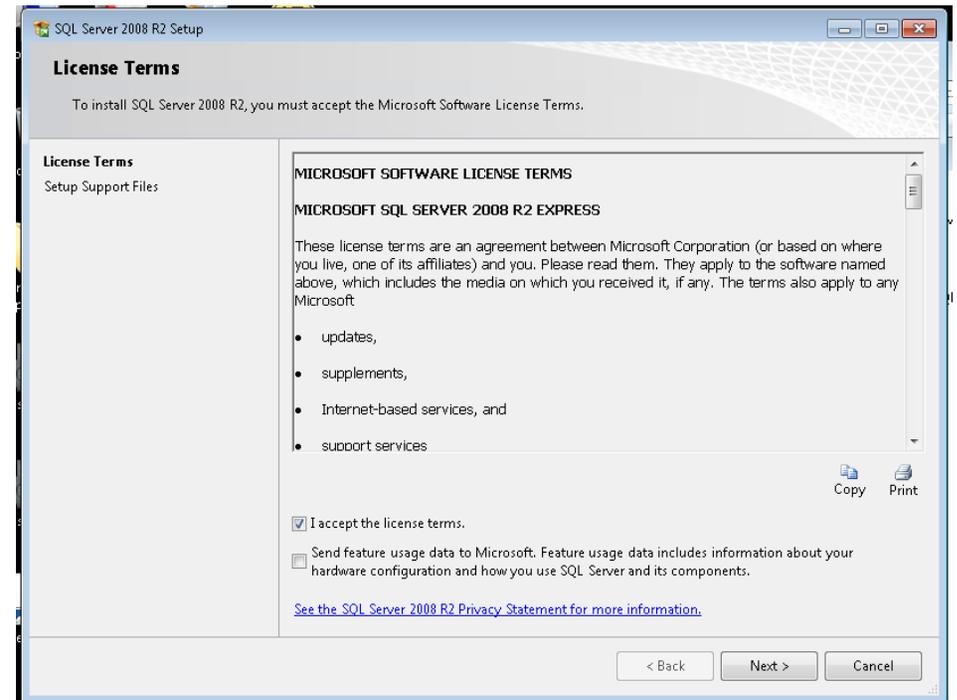
Click Yes if asked to allow the installation.



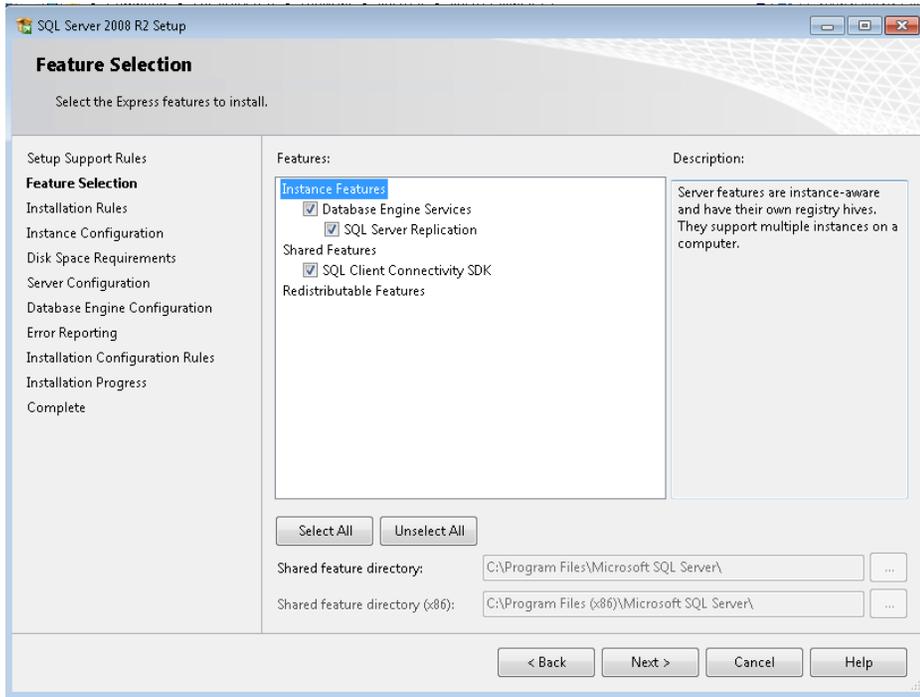
If you have an existing NASIS installation using SQL Express 2005, choose the Upgrade option. If not, click on New installation.



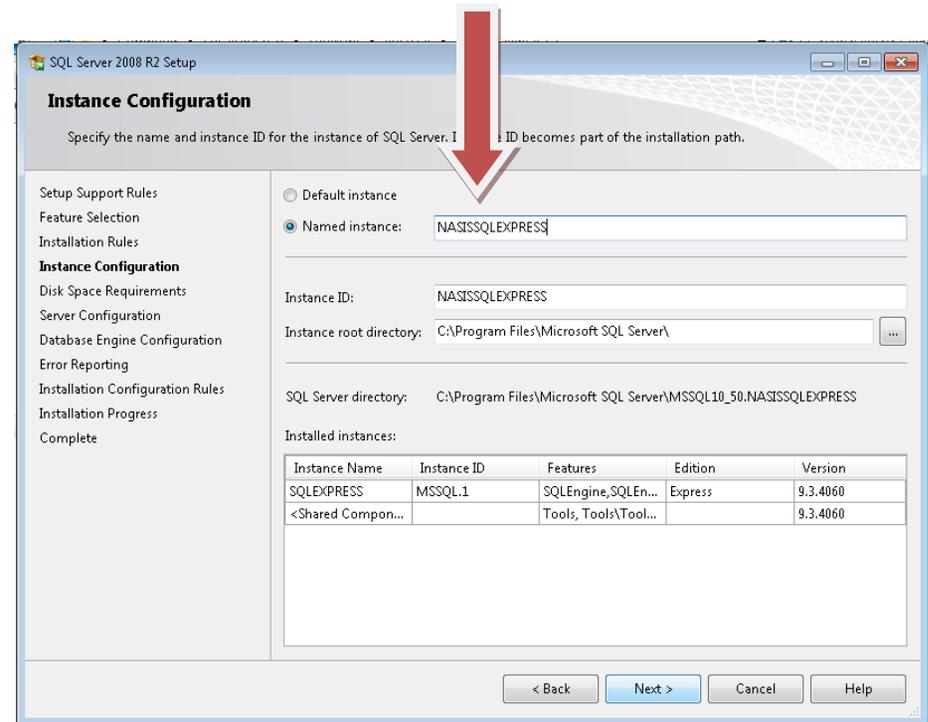
Click “I accept the license terms” then click Next.



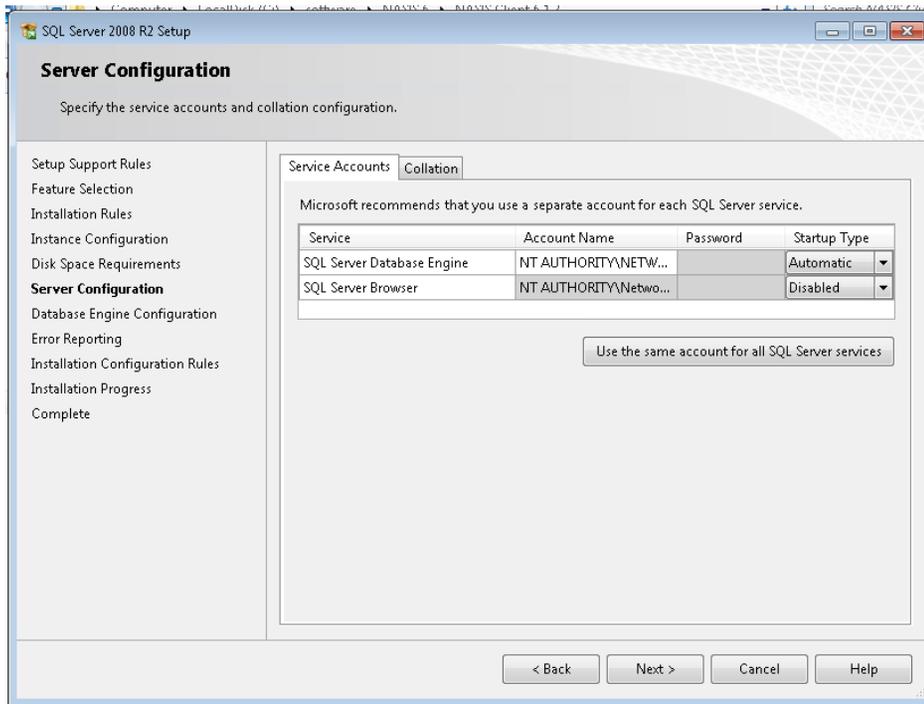
Click Next



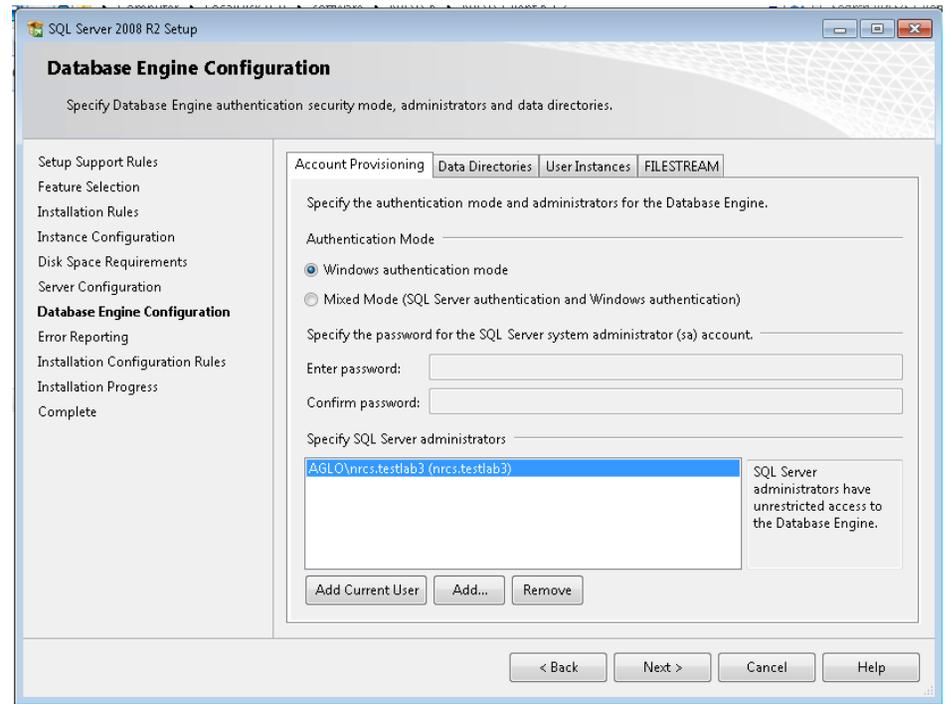
Type NASISSQLEXPRESS for the name of the instance.  
Click Next



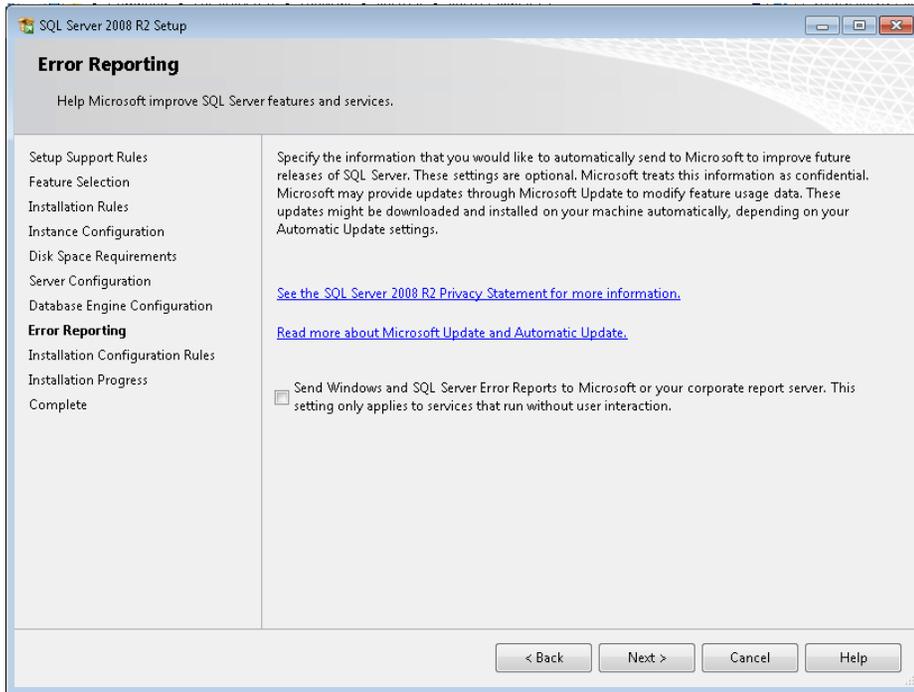
Click Next



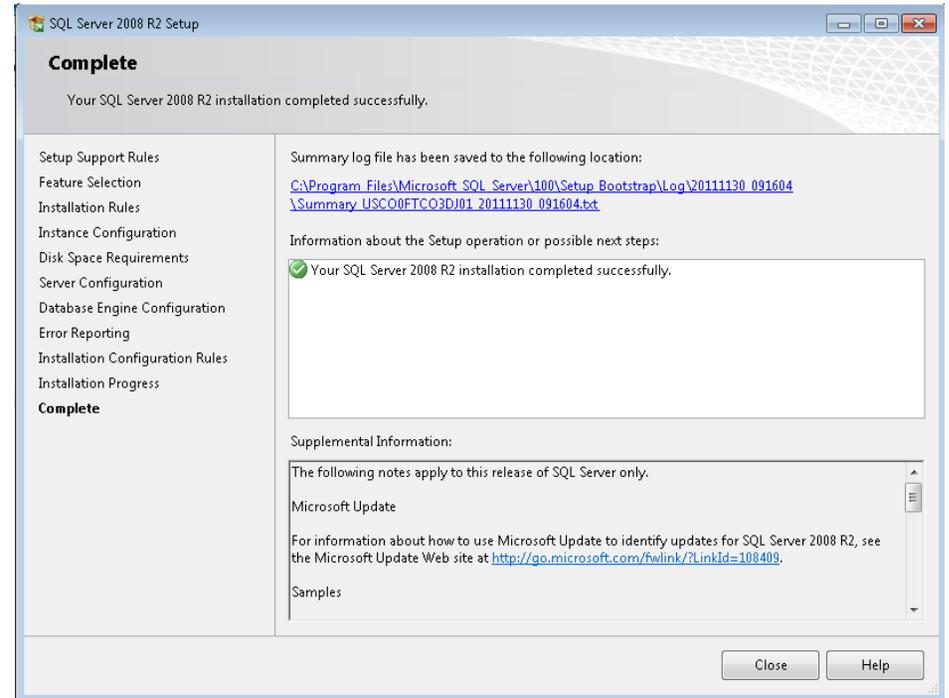
Click Next



Click Next



Click close



In the final dialog box (shown above) there is a link to view the summary log file. If you wish you can open that file to verify that the correct version of SQL Express was installed. In the log file you should find the following product description. Be sure you have at least the “R2” version.

Package properties:

Description:	SQL Server Database Services 2008 R2
ProductName:	SQL Server 2008 R2
Type:	RTM
Version:	10
SPLevel:	0
Installation location:	d:\9851f597fd36a124a2\x86\setup\
Installation edition:	EXPRESS