

SHIPCONSTRUCTOR[®]

2012

Installation Guide

www.ShipConstructor.com

Featuring: Database Driven Relational Object Model™ (DDROM™)

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ShipConstructor 2012 Installation Guide

Published July 25, 2011

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ShipConstructor Installation Guide

- ShipConstructor license agreement i**
- Chapter 1 1**
- System Requirements..... 1**
- ShipConstructor Software Requirements 1
- Server Hardware Requirements 3
- Client/Standalone Hardware Requirements 3
- What is a lock?..... 3
- Chapter 2..... 4**
- Installation Types..... 5**
- Network Installation - Single Server..... 5
- Network Installation - Multiple Servers 6
- Standalone Installation 7
- Network Installation..... 7**
- Overview 7
- Install SQL Server 2005 Express on Windows XP 7
- Install SQL Server 2005 Express on Windows 7, Windows Vista, Windows Server 2008 or Windows Server 2008 R2 8
- Installing and Configuring All Other Version of SQL 11
- Install ShipConstructor Server Files 17
- Install ShipConstructor Client..... 21
- Activate ShipConstructor Licensing..... 24
- Standalone Installation 30**
- Overview 30
- Install SQL Server 2005 Express on Windows XP 30
- Install SQL Server 2005 Express Edition on Windows 7, Windows Vista, Windows Server 2008 or Windows Server 2008 R2 31
- Installing and Configuring All Other Version of SQL 33
- Configuring Windows Firewall..... 39
- Install ShipConstructor Standalone 39
- Activate ShipConstructor Licensing..... 44
- Chapter 3..... 49**
- Modify or Remove ShipConstructor 50**
- Remove ShipConstructor 50
- Modify ShipConstructor Installation 50
- Chapter 4..... 52**
- Updating ShipConstructor 53**
- Downloading the Update 53
- Applying the Update..... 53
- Update a Project Database Version..... 54
- Chapter 5..... 55**
- Installing the Navisworks Enabler 56**
- Technical Support 56**

Chapter 1

System Requirements

System Requirements

A ShipConstructor implementation consists of the following software components:

- ShipConstructor client software
- ShipConstructor server tools – Tools for providing licensing and administering project databases on Microsoft SQL Server.
- Microsoft SQL Server – One network accessible instance is required to host ShipConstructor project databases.

It is recommended that the server hosting the ShipConstructor project database be hosted on a separate machine from the ShipConstructor client. Standalone installations are only recommended for a single-user environment.

Important: A hardware lock is required to run ShipConstructor products. Without the hardware lock, all products will run with limited functionality.

ShipConstructor Software Requirements

Client/Standalone Installations

Windows

ShipConstructor 2012 client and server installations are compatible with the following operating systems:

- Windows XP SP2 or later (32-bit)
- Windows Vista (32-bit and 64-bit)
- Windows 7 (32-bit and 64-bit)

.NET Framework

Prior to installing any ShipConstructor software, Microsoft .NET 3.5 SP1 must be installed. Microsoft .NET 3.5 SP1 Framework is freely available from Microsoft.

AutoCAD

Prior to installing the ShipConstructor 2012 client software, AutoCAD 2010, 2011, or 2012 must be installed on the client machine. ShipConstructor 2012 is compatible with AutoCAD, AutoCAD Mechanical, and AutoCAD Electrical. ShipConstructor server tools, ShipCam and NC-Pyros are not dependent on AutoCAD.

ShipConstructor 2012 can be installed side-by-side with ShipConstructor 2011, 2009, 2008, or 2005. However, multiple ShipConstructor installations cannot share the same version of AutoCAD. The ShipConstructor 2012 installer will detect existing installations of ShipConstructor and prevent ShipConstructor 2012 from being installed on an AutoCAD instance that is already in use.

Note: The ShipConstructor 2011 installer does NOT detect existing installations of ShipConstructor; installing ShipConstructor 2011 AFTER installing ShipConstructor 2012 on the same instance of AutoCAD is not supported and will cause ShipConstructor 2012 to stop working.

Server Installations

Windows

ShipConstructor 2012 server installations are compatible with the following operating systems:

- Windows Server 2008 (32-bit and 64-bit)
- Windows Server 2008 R2 (32-bit and 64-bit)
- Windows Server 2003 (32-bit)

.NET Framework

Prior to installing any ShipConstructor software, Microsoft .NET 3.5 SP1 must be installed. Microsoft .NET 3.5 SP1 Framework is freely available from Microsoft.

Standalone and Server Installations

Microsoft SQL Server

All ShipConstructor 2012 implementations require at least one instance of Microsoft SQL Server installed.

Note: SQL 2000 is no longer supported in ShipConstructor 2012.

A free licensed version of Microsoft SQL Server 2005 Express Edition SP3 is packaged with ShipConstructor 2012. However, for larger projects (5 or more users) a full 64-bit version of MS SQL Server 2005 SP3, SQL 2008 or SQL 2008 R2 is recommended to overcome limitations.

A full version increases the amount of RAM and the number of CPUs that can be used. A 64-bit installation of Microsoft SQL Server running on a 64-bit operating system also increases performance due to larger system bus bandwidth and the ability to natively address larger amounts of memory. This is crucial for servers hosting many projects or projects of large size.

Important: It is possible to restore a database created in an older version of SQL Server into a newer version of SQL Server. However it is not possible to restore a database created in a newer version of SQL Server into an older version of SQL Server. For this reason, the SQL Server version used by any partner offices or subcontractors should be considered when choosing the SQL Server version to use.

Server Hosting Recommendations

There are three categories of items that must be served to support a ShipConstructor project: project databases; project drawing files; and software licenses. In all but enterprise implementations it is recommended that all three components be hosted on the same server hardware to reduce setup and administrative overhead. It is also recommended that all projects be kept on the same project server to make administration tasks easier.

Server Hardware Requirements

These specifications are recommended for satisfactory performance. Specifications better than those outlined below can offer better performance.

ShipConstructor

Number of Users	CPU	RAM (GB)	Disk Configuration	Disk Space (per project)
1-5	Intel® Core i5 650 @ 3.2Ghz or better	4	Single Disk or RAID 1 using high performance SATA disks	5
5 – 10	Intel® Xeon® Processor X3470 (8M Cache) @ 2.93Ghz or better	8	3 Disk RAID 5 or 4 Disk RAID 10 using high performance SATA disks	5
10 – 20	2 X Intel® Xeon® Processor X3470 (8M Cache) @ 2.93 GHz or better	16	RAID 1 for Operating System and SQL Server binaries 3 Disk RAID 5 or 4 Disk RAID 10 for SQL Server databases and ShipConstructor project files Disks should be high performance SATA or SAS disks	10
>20	Contact ShipConstructor for recommendations			

Client/Standalone Hardware Requirements

ShipConstructor

ShipConstructor 2012 Recommended Client Hardware Specifications			
CPU	RAM (GB)	Graphics Card*	Disk Space (GB)
Intel® Core i5 650 @ 3.2Ghz or better	4	Any AutoCAD supported and recommended graphics card with a supported and recommended driver.	5

*For a list of AutoCAD supported and recommended graphics cards please see: www.autodesk.com/autocad-graphicscard

NC-Pyros

NC-Pyros Recommended Client Hardware Specifications		
CPU	RAM (GB)	Disk Space (GB)
Intel® P4 2.0 Ghz or greater	0.5	0.1

ShipCam

ShipCam Recommended Client Hardware Specifications		
CPU	RAM (GB)	Disk Space (GB)
Intel® P4 2.0 Ghz or greater	1	1

What is a lock?

The lock is a USB flash drive included with your licensed software. The lock plugs into your computer or server running ShipConstructor 2012 Server. The lock stores specific information that the individual ShipConstructor modules reference. Without a hardware lock the program will only run in unlicensed mode. ShipConstructor locks can be updated to allow use of additional modules or newer versions of the software. Locks can also be updated to extend time on leases and rentals.

Chapter 2

How to Install ShipConstructor

Installation Types

ShipConstructor offers users multiple ways in which users can configure their installation. Although a Standalone installation method is offered, it is recommended to either do a Single Server or Multiple Server installation to achieve best performance.

Network Installation - Single Server

A Single Server network installation follows basic client-server architecture.

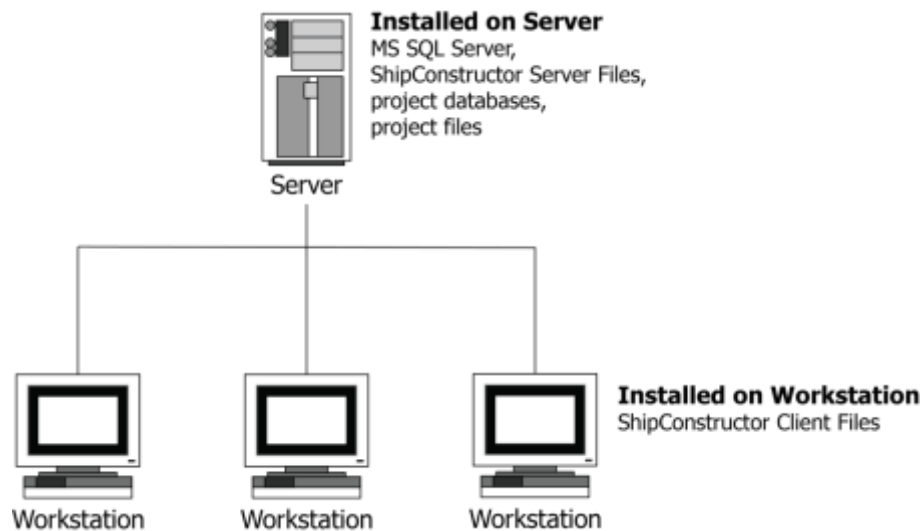
One machine houses the Microsoft SQL Server, the ShipConstructor Server files, the project database, project files and the Licensing Server. Workstations then communicate with the server.

Installed on the Server:

- ShipConstructor Administrator, for project maintenance
- ShipConstructor License Server, for network licensing
- ShipConstructor Server Setup, for configuring Microsoft SQL Server
- License Utilities for License management
- ShipConstructor Project Files

Installed on the Client(s):

- ShipConstructor 2012
- Report
- NC-Pyros
- ShipCAM



Network Installation - Multiple Servers

To optimize performance note that it may be desirable to separate the SQL Server, the File Server and the Licensing Server onto two or three different computers.

Installed on the Licensing Server:

- ShipConstructor License Server, for network licensing
- License Utilities for License management

Installed on the SQL Server:

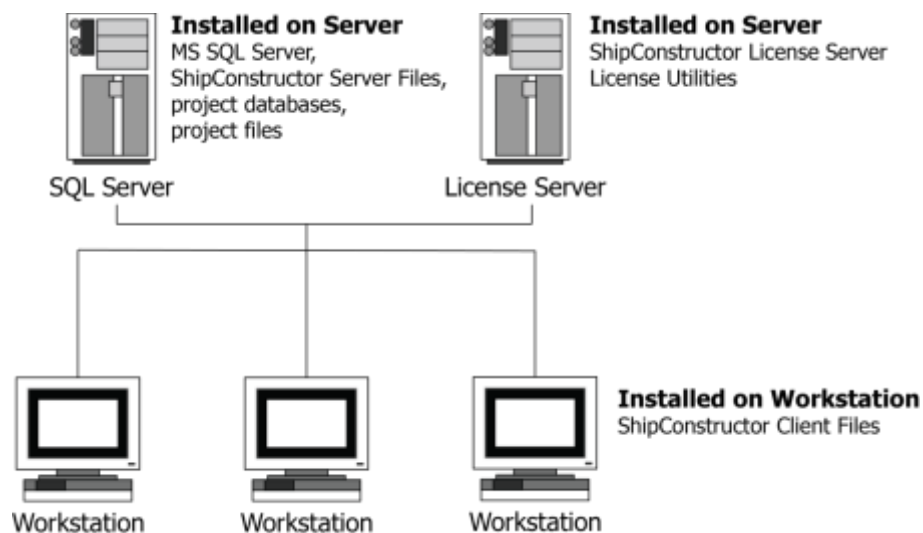
- ShipConstructor Administrator, for project maintenance
- ShipConstructor Server Setup, for configuring Microsoft SQL Server

Installed on the Client(s):

- ShipConstructor 2012
- Report
- NC-Pyros
- ShipCAM

File Server

- ShipConstructor Project Files



Standalone Installation

Standalone installations are typically used in a single-user environment. In this configuration, a single machine acts as both server and client. In order to achieve satisfactory performance with a standalone installation, a multi-core CPU and 4GB of RAM is recommended.

Note, in a multi-user environment, a network installation should be used instead of a standalone installation since performance is improved if server and client workload are distributed onto different computers. A network installation also allows more flexibility as changes to the server such as location or network drive mappings will not affect the clients. Furthermore, a network installation allows the project server to be replaced without any work needed on the client machines and can make it easier to work with multiple project servers.



Installed on Workstation
MS SQL Server Desktop Engine,
ShipConstructor Server Files,
ShipConstructor Client Files,
project databases,
project files

Network Installation

Overview

The basic process of installing ShipConstructor for a Network Installation involves the following steps:

1. Install and/or Configure SQL Server
2. Install ShipConstructor Server Files
3. Install ShipConstructor Client Files
4. Enable Licensing Server

Install SQL Server 2005 Express on Windows XP

1. Insert the **ShipConstructor 2012** DVD into the DVD drive on the server that you wish to use for hosting SQL. The **Install menu** will Autorun.

Note: If you have Autorun disabled in Windows or if you have downloaded the full install from the internet, you will need to load setup manually.



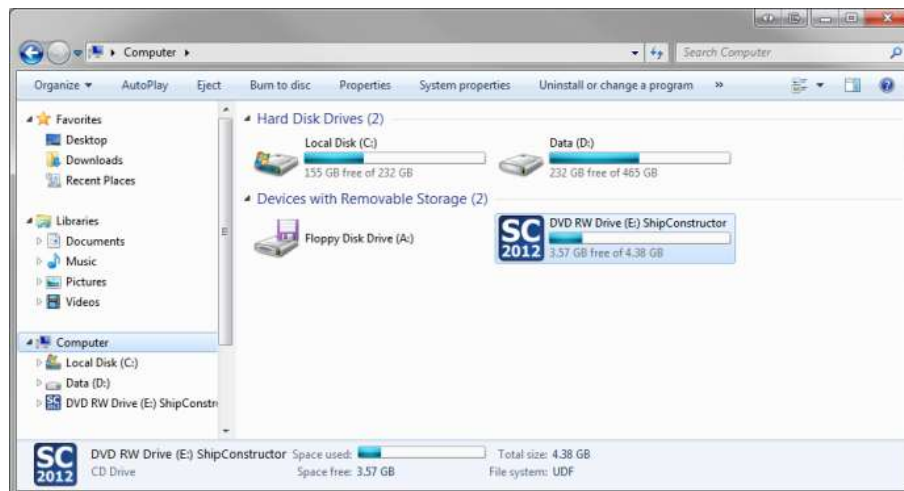
2. Click **Install ShipConstructor 2012**. The Setup Type menu will appear.
3. Click **Install Server**. The ShipConstructor 2012 Server Installation menu will appear.



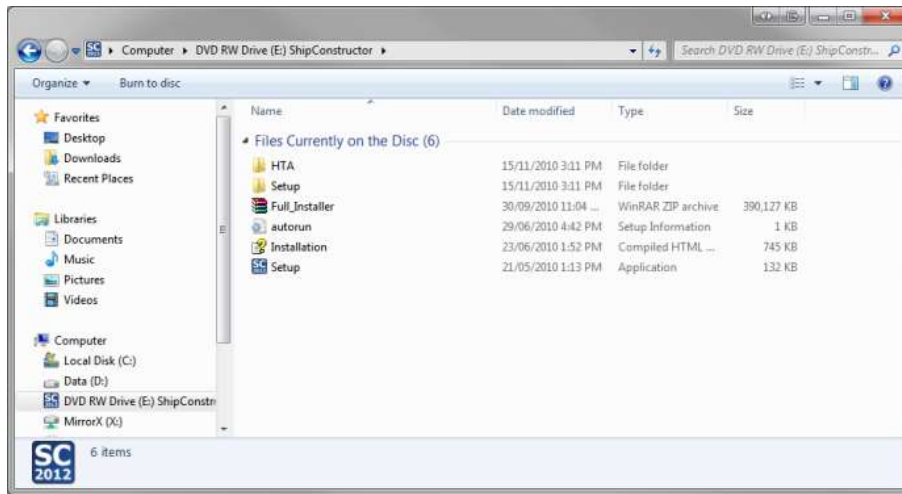
4. Click **Install Microsoft SQL Server 2005 Express Edition**. The SQL Server 2005 Express Edition installer will launch and install automatically.

Install SQL Server 2005 Express on Windows 7, Windows Vista, Windows Server 2008 or Windows Server 2008 R2

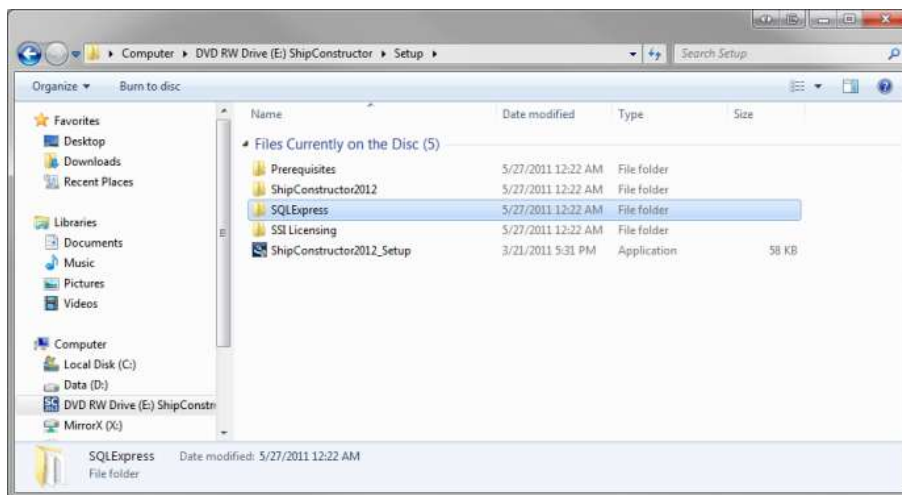
1. Insert the **ShipConstructor 2012** DVD into the DVD drive on the server that you wish to use for hosting SQL. The Install menu will normally Autorun but it must be closed if it opens.
2. Click the **Exit** button to close the **Install menu** if it has opened.
3. Go to the Start menu and choose **Computer** to open **Windows Explorer**.



- Right click on the **DVD drive** that the ShipConstructor 2012 disc is in and choose **Open** from the **right click menu**.

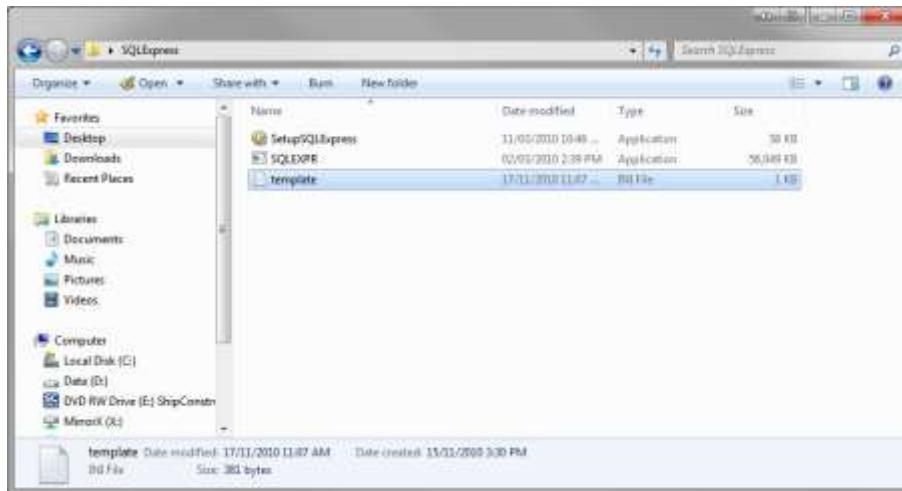


- Open the **Setup** folder to list the contents.
- Copy and paste the **SQLExpress** folder from the **Setup** folder onto your desktop.



- Open the **SQLExpress** folder that you just copied to your desktop.

8. Edit the **template.ini** with your favourite text editor.



9. Look for the line that says **SAPWD=ShipCon** and change ShipCon to a password that meets the security restrictions of your domain.



10. Save the file and close the text editor.
11. Launch the **SQL setup** process by double clicking on the **SetupSQLExpress** icon. SQL will now launch and install and configure itself for use with ShipConstructor 2012.

Note: If the password you set in Step 9 was not strong enough, you will get a warning message during the installation. On the warning, click Cancel to continue the installation. Once completed you will need to update the template.ini file in the folder you previously copied with a stronger password and rerun SetupSQLExpress.

Installing and Configuring All Other Version of SQL

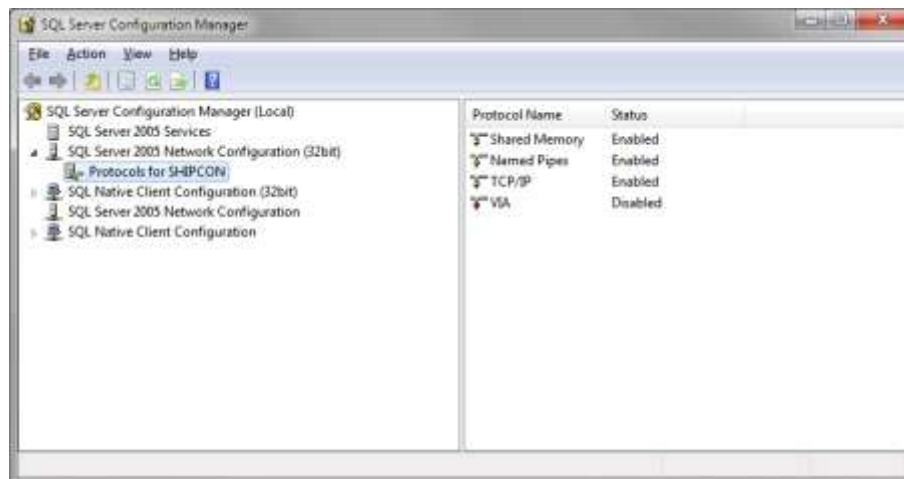
Note: The following steps are only required if installing SQL Server 2005, SQL Server 2005 Express Edition (downloaded version), SQL Server 2008, or SQL Server 2008 R2. The version that is included on the ShipConstructor 2012 disc is pre-configured.

After installing any of the supported versions of SQL Server as per Microsoft's instructions you will need to go through the following configuration steps to make SQL work with ShipConstructor. These steps will:

- Enable TCP/IP and Named Pipes Protocols
- Enable Remote Connections
- Turn on the SQL Server Browser Service
- Enable xp_cmdshell
- Configure the Maximum Degrees of Parallelism

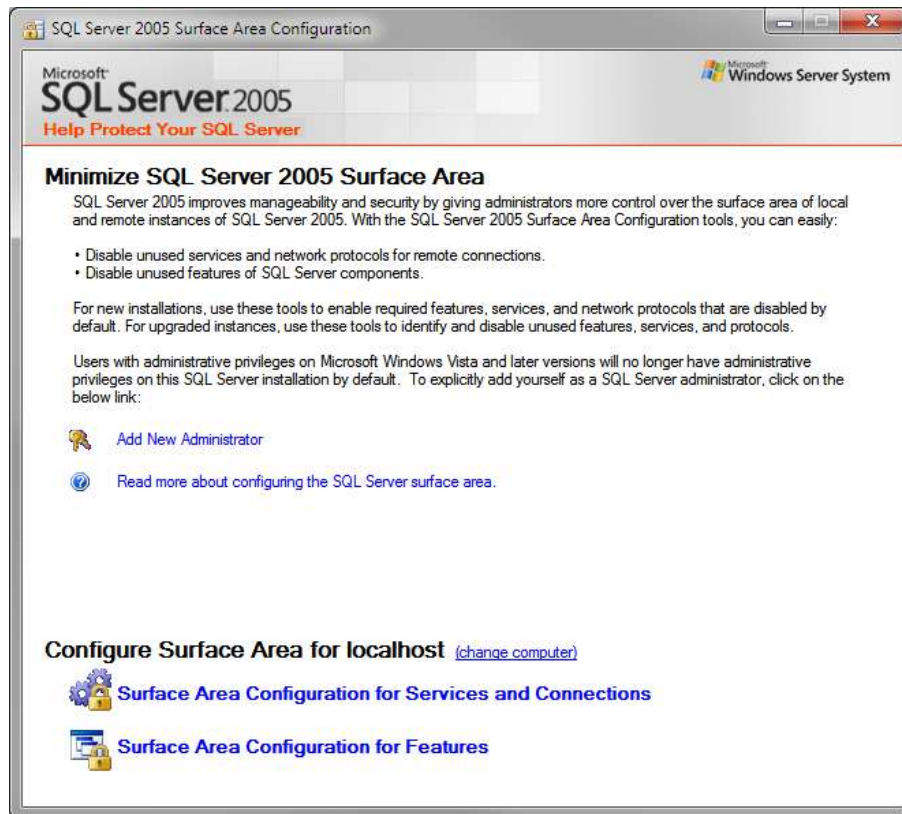
Configuring SQL Server 2005 or SQL Server 2005 Express Edition (downloaded version)

1. Go to the **Start menu** and under the **All Programs->Microsoft SQL Server 2005->Configuration Tools** menu choose **SQL Server Configuration Manager**.
2. Under **SQL Server Configuration Manager (Local)**, expand **SQL Server 2005 Network Configuration**.
3. Select the **Protocols for <Instance Name>** node in the tree on the left.

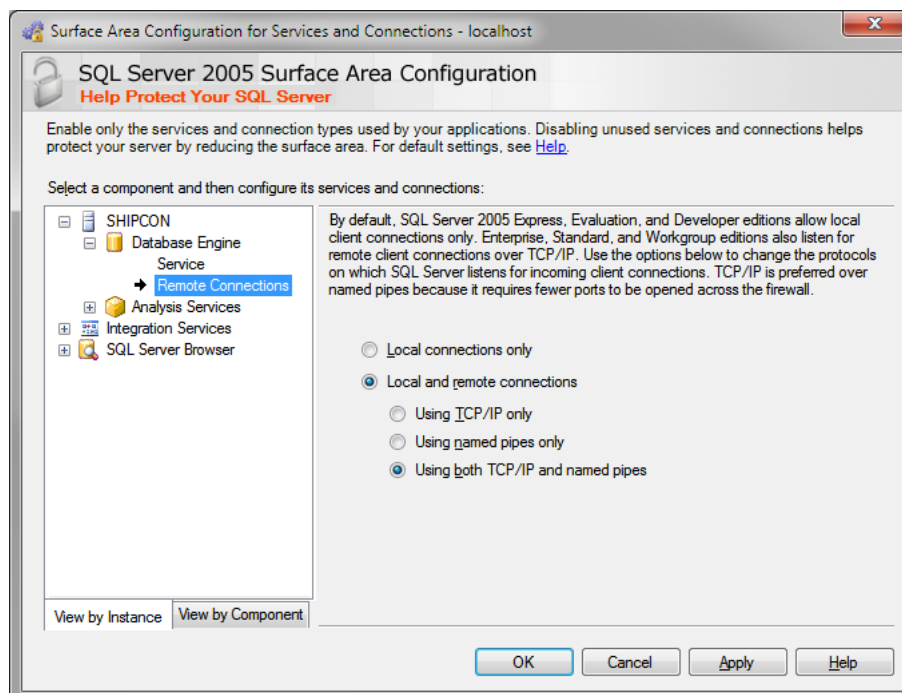


4. Right-click on **TCP/IP** and select **Enabled**.
5. Right-click on **Named Pipes** and select **Enabled**.
6. Under the **File menu** choose **Exit** to close the SQL Server Configuration Manager.

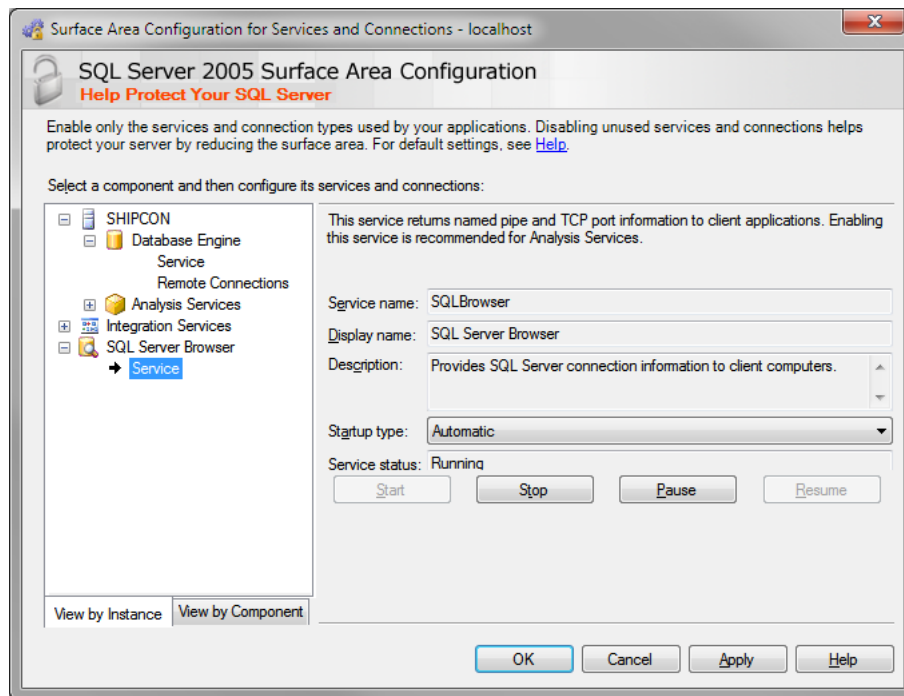
7. Go to the **Start menu** and under the **All Programs->Microsoft SQL Server 2005->Configuration Tools** menu choose **SQL Server 2005 Surface Area Configuration**.



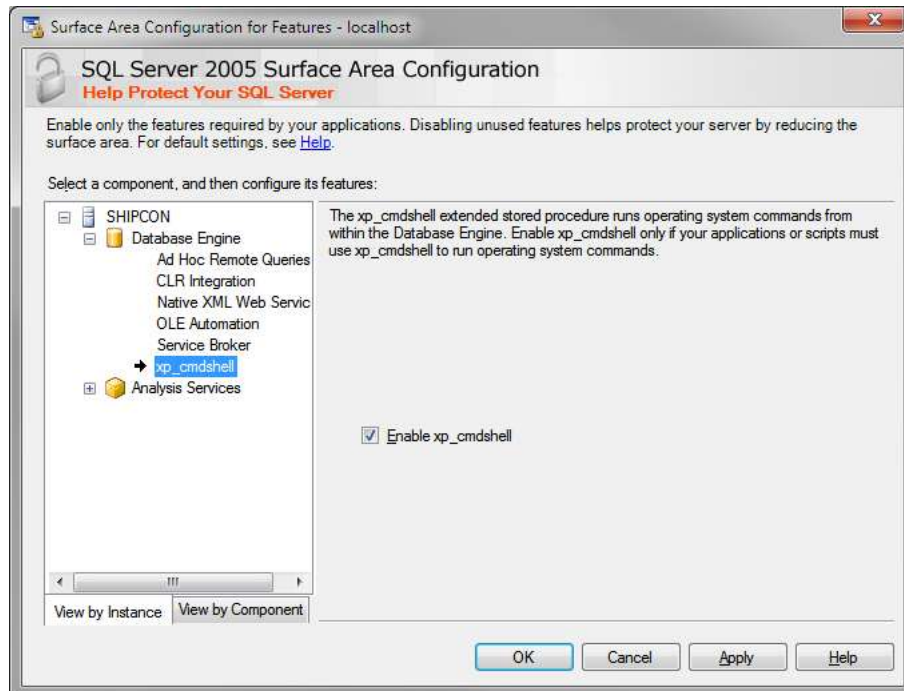
8. Click on the **Surface Area Configuration for Services and Connections** link.
9. Under **<Instance Name>\Database Engine\Remote Connections**, select **Local and Remote Connections**, and **Using both TCP/IP and named pipes**.



10. Click **Apply** to save the change.
11. Under **<Instance Name>\SQL Server Browser\Service**, set the **Startup type** to **Automatic**, and click the **Start** button to start the service.



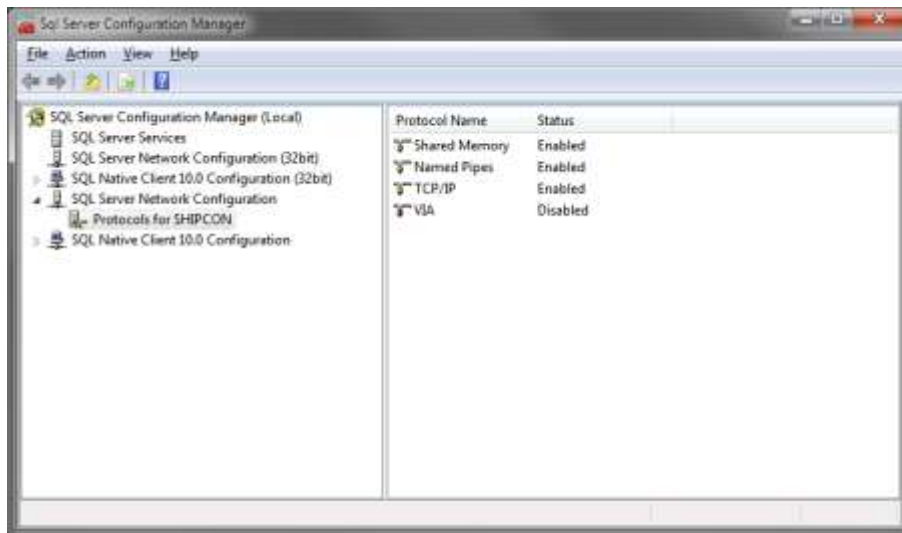
12. Click **OK** to save the changes and return to the **SQL Server 2005 Surface Area Configuration** window.
13. Click on the **Surface Area Configuration for Features** link.
14. Under **<Instance Name>\Database Engine\xp_cmdshell**, check the **Enable xp_cmdshell** checkbox.



15. Click **OK** to close the window and return to the **SQL Server 2005 Surface Area Configuration** window. Close the **SQL Server 2005 Surface Area Configuration** window to complete the setup. Your SQL Server is now ready for installation of the ShipConstructor Server files.

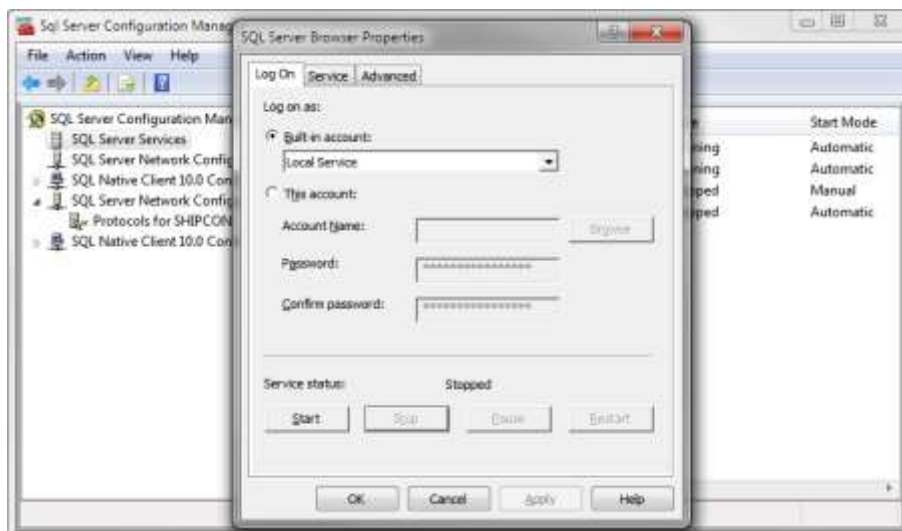
Configuring SQL Server 2008 or SQL Server 2008 R2

1. Go to your **Start menu** and choose **All Programs->Microsoft SQL Server 2008->Configuration Tools** and click on **SQL Server Configuration Manager**.

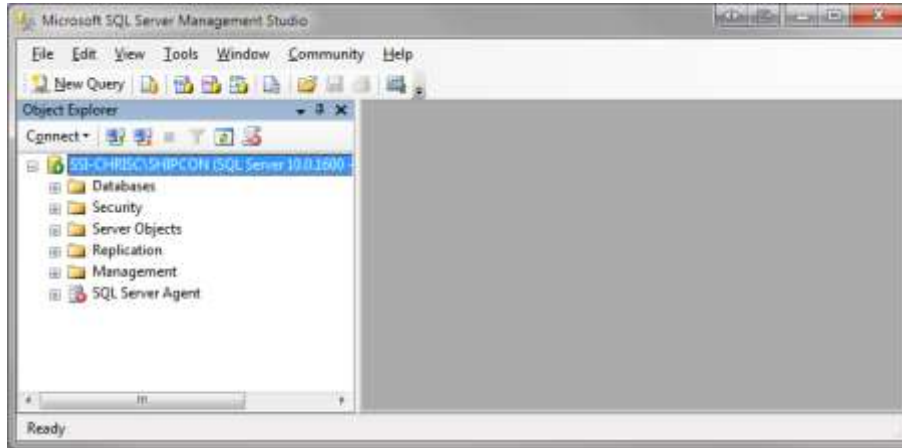


Note: You may be required to restart you server after making these changes. Please restart before installing the ShipConstructor Server files to ensure that the settings are up to date.

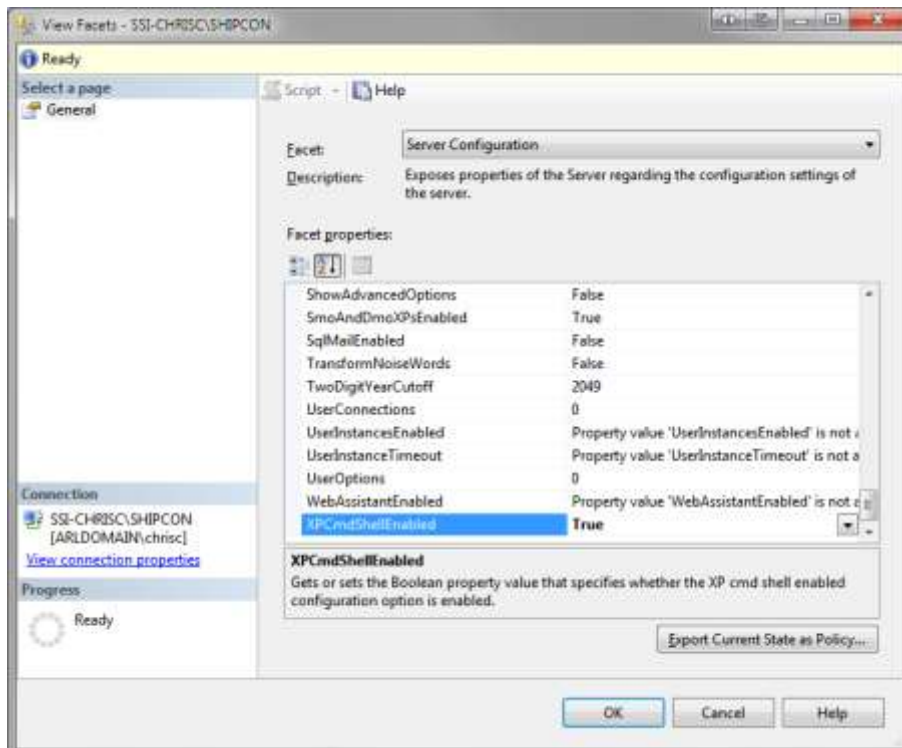
2. Under **SQL Server Configuration Manager (Local)** expand **SQL Server Network Configuration**.
3. Select the **Protocols for <Instance Name>** node in the tree on the left.
4. Click on the **Status** for **Named Pipes** and change it to **Enabled**.
5. Click on the **Status** for **TCP/IP** and change it to **Enabled**.
6. Select **SQL Server Services** node under **SQL Server Configuration Manager (Local)** from the tree on the left.
7. In the right side pane, right click on **SQL Server Browser** and choose **Properties** from the **right click menu**.
8. In the **SQL Server Browser Properties** window that appears, click on the **Start** button to start the service if it isn't already started.



9. Click **OK** to save the changes and close the **SQL Server Browser Properties** window.
10. Under the **File** menu choose **Exit** to close the **SQL Server Configuration Manager**.
11. Go to your **Start** menu and choose **All Programs->Microsoft SQL Server 2008** and click on **SQL Server Management Studio**.
12. Right click on the **Database Server Instance** that is being configured.

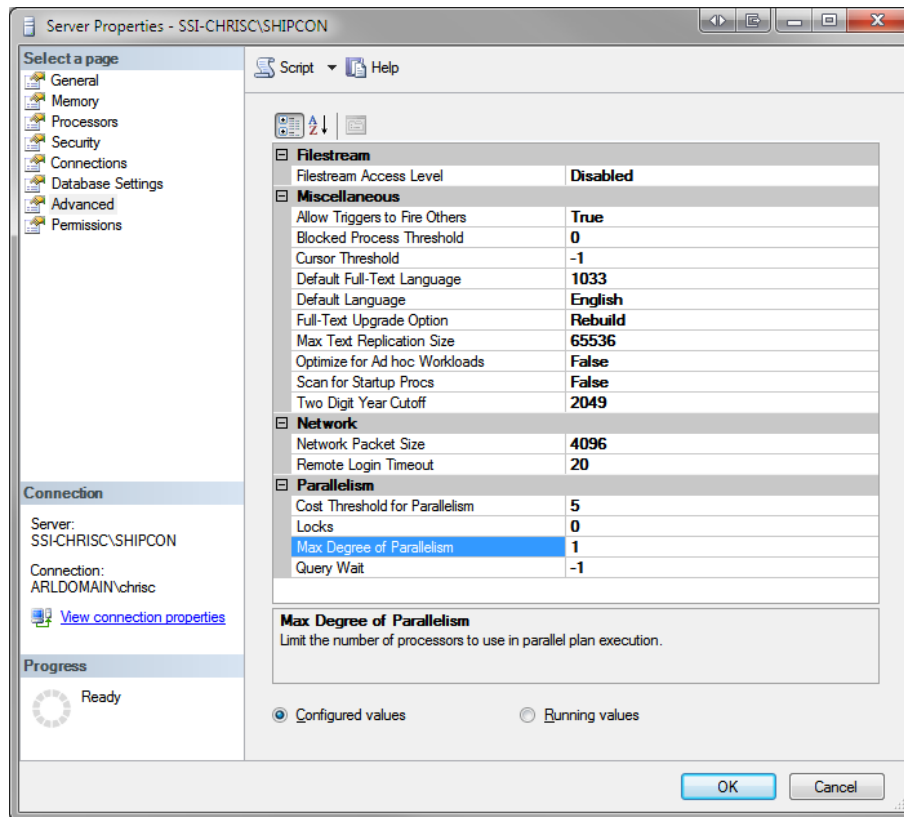


13. Choose **Facets** from the **right click** menu to open the **View Facets Window**.
14. Change the **Facet** dropdown to **Server Configuration**.
15. Change **XPCmdShellEnabled** to **True**.

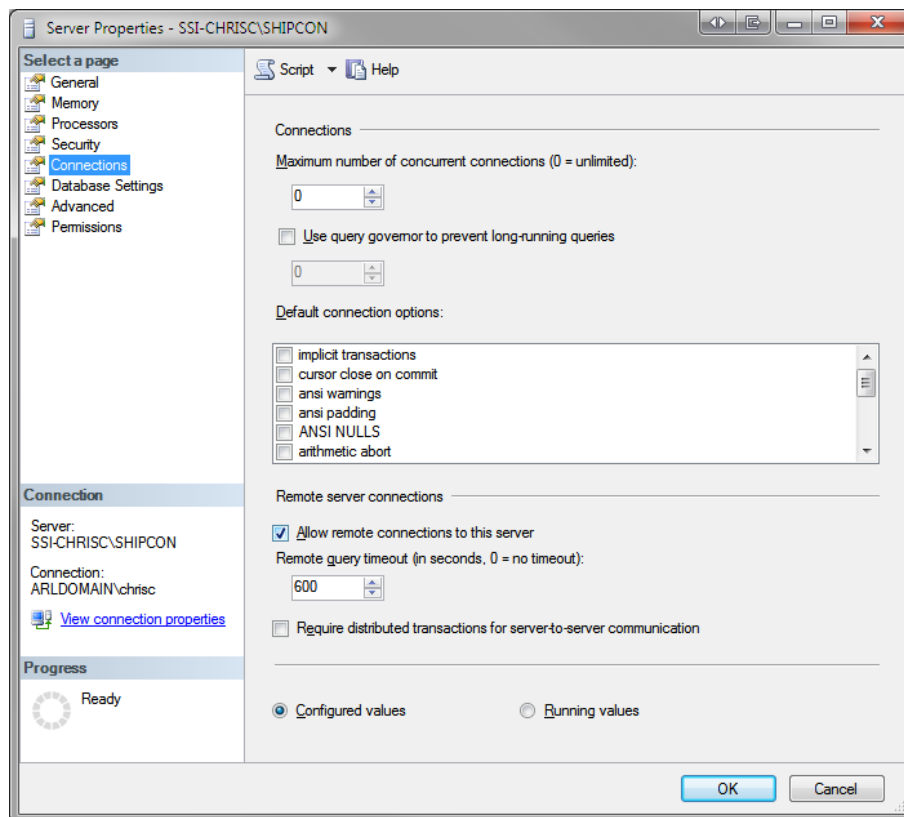


16. Click **OK** to save the changes and close the **View Facets** window.
17. In the **Object Explorer** section, right click on **your server instance** and choose **properties** from the **right click** menu.
18. In the **Server Properties** window that just opened, under **Select a page** click on **Advanced**.

19. In the right hand pane under the **Parallelism** section change **Max Degree of Parallelism** to **1**.



20. Under **Select a page** click on **Connections**.
21. Under the **Remote server connections** section, ensure that **Allow remote connections to this server** is checked.



22. Click **OK** to save the changes and close the **Server Properties** window.
23. Close the **Microsoft SQL Server Management Studio** window to complete the configuration of your SQL server. Your SQL Server is now ready for installation of the ShipConstructor Server files.

Note: You may be required to restart you server after making these changes. Please restart before installing the ShipConstructor Server files to ensure that the settings are up to date.

Configuring Windows Firewall

If a firewall is turned on but not correctly configured, attempts to connect to SQL Server might be blocked. If this is the case, consult www.microsoft.com for instructions regarding manually configuring Windows Firewall.

Install ShipConstructor Server Files

Note: If you plan to host the Licensing Server on a separate machine from the SQL Server, install the ShipConstructor Server Files on both machines. On the Licensing Server, when prompted to run SCServerSetup, click Cancel to skip the SQL configuration steps.

1. Insert the **ShipConstructor 2012** DVD into the DVD drive on the server that you wish to use for hosting the ShipConstructor projects. The **Install** menu will Autorun.

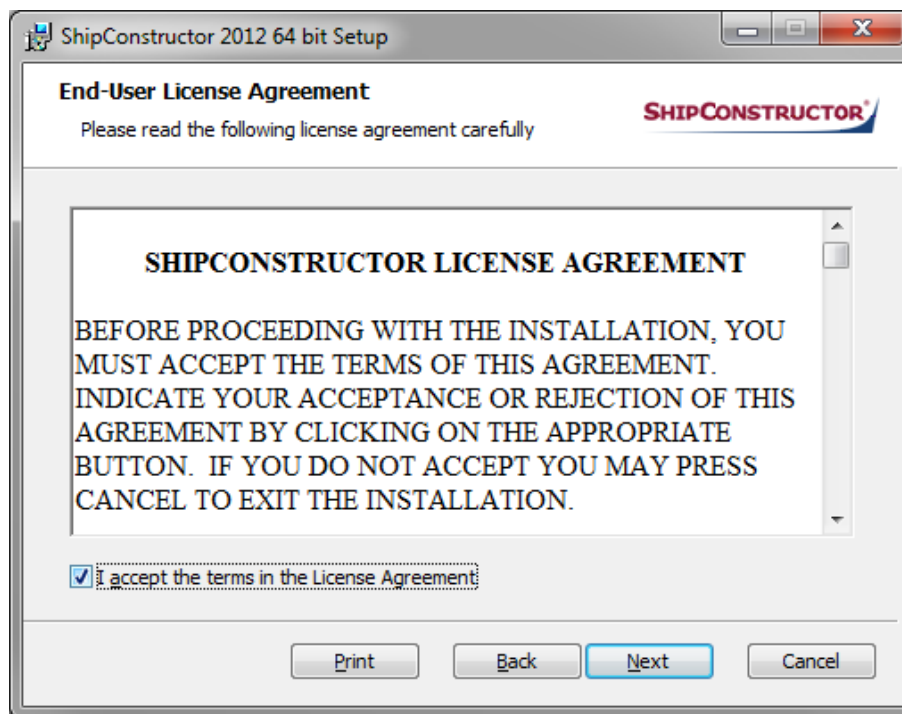


Note: If you have Autorun disabled in Windows or if you have downloaded the full install from the internet, you will need to load setup manually.

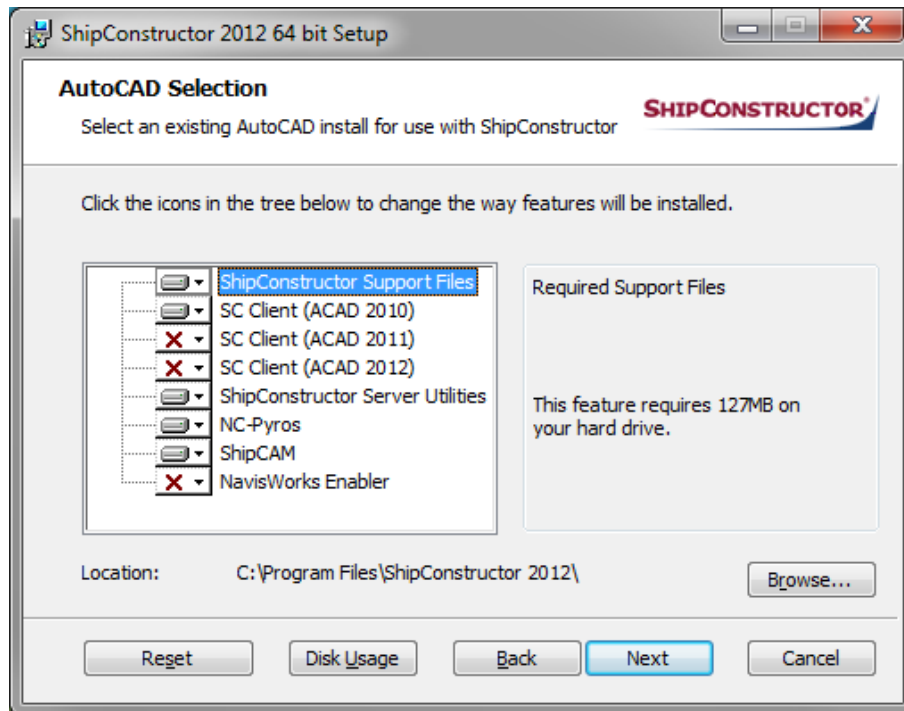
2. Click **Install ShipConstructor 2012**. The **Setup Type** menu will appear.
3. Click **Install Server**. The **ShipConstructor 2012 Server Installation** menu will appear.



4. Click **Install ShipConstructor Server** and the installer will launch. Click **Next** to start the install process.
5. Click **Next**. The License Agreement appears. Read the agreement carefully, accept the terms, and then click **Next**.

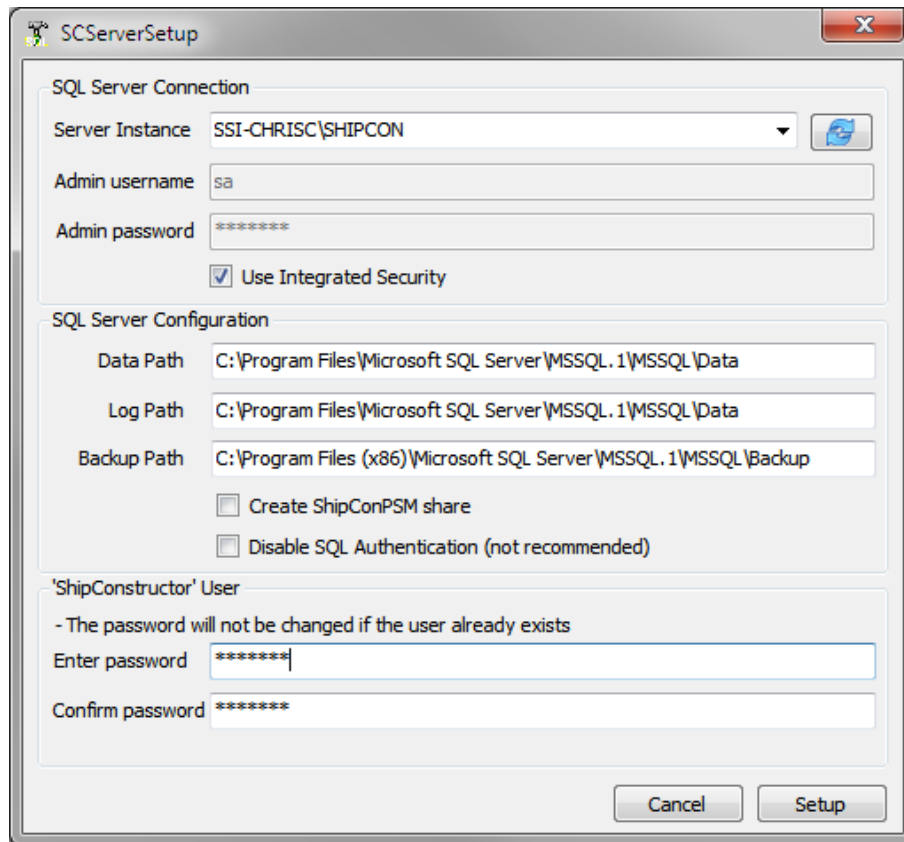



6. You will then be presented with the **Custom Setup** dialog where you can add or remove features if you want to further customize your install although it is recommended that most users leave the default options. By default, the server installation method installs the ShipConstructor Server software utilities only. This software includes the following:
- A. ShipConstructor Administrator, for project maintenance
 - B. ShipConstructor License Server, for network licensing
 - C. ShipConstructor Server Setup, for configuring Microsoft SQL Server
 - D. License Utilities, for license management



7. Click **Next** then click the **Install** button to start the installation process.

8. During installation, the **SCServerSetup** will load so that you can configure ShipConstructor to connect to your SQL database. On the **SCServerSetup** Screen, under the **SQL Server Connection** section, choose a **Server Instance** from the dropdown list. If you have installed the bundled SQL Server 2005 Express Edition, the SQL Server instance is listed as SHIPCON.



If you do not see the desired instance in the drop-down list, ensure that the server is currently running and running on the same machine. If it is not, start the service then click . If the server name still does not appear, type it in manually.

9. Ensure that the **Use Integrated Security** box is checked if you are running **SCServerSetup** as a **machine administrator** (typical). Otherwise, enter a **SQL server username** and **password** for any user that has a **sysadmin** role.

Note: SQL creates an account called "sa" by default during setup. In the bundled SQL Server 2005 Express Edition the password is "ShipCon". If you installed SQL Server 2005 Express Edition on a version of Windows other than XP, use the password you entered into the template.ini file. For full versions of SQL you will need to use the password you supplied for the "sa" user during setup.

10. Verify the details in the **SQL Server Configuration Section**. Match the Data, Log and Backup Paths to those used by your SQL installation. If you install the bundled version of SQL Server 2005 Express Edition on a 32-bit system the default paths will be correct.
11. If you intend to use **ShipConstructor's Project Split and Merge** functionality, check the **Create ShipConPSM share** box.

12. Leave the **Disable SQL Authentication** unchecked.

Note: If SQL Authentication is disabled, your server is set to Windows Authentication Only mode and will be inaccessible via SQL Authentication.

13. Under the **ShipConstructor User** section, enter and confirm the **user password** for the ShipConstructor user that will be created in the database. Note this password down as it will be required to connect to any ShipConstructor project you create.
14. Click **Setup** to have SCServerSetup perform the following tasks.
 - A. Set the server's Authentication Mode. By default it will verify that the selected instance of Microsoft SQL Server supports SQL Authentication. If your Microsoft SQL Server is set to Windows Authentication Only, it will change the setting to Mixed Mode which supports both Windows Authentication and SQL Authentication modes.
 - B. Connect to the server using the specified account.
 - C. Add the user ShipConstructor with the password ShipCon as a sysadmin account.
 - D. Enable the xp_cmdshell stored procedure.
 - E. Set the server's default log, data, and backup folders.
 - F. Create the ShipConPSM shared folder (if checked). The ShipConPSM shared folder on the server is writable by everyone. If security is a concern you may limit the folder's security but it must be writable by the following users:
 - (a) Local System account (or whichever account your SQL Server is running as)
 - (b) Any domain user who will perform split and merge operations
15. Click **Finish** to close the window and complete the ShipConstructor Server installation. You may have to restart your server before you can run ShipConstructor 2012.

Install ShipConstructor Client

Note: You will need to have the ShipConstructor Server files installed on a computer on your network prior to installing the ShipConstructor client.

1. Insert the **ShipConstructor 2012 DVD** into the Workstation that you wish to install ShipConstructor on. The **Install menu** will Autorun. Choose **Install ShipConstructor 2012**.

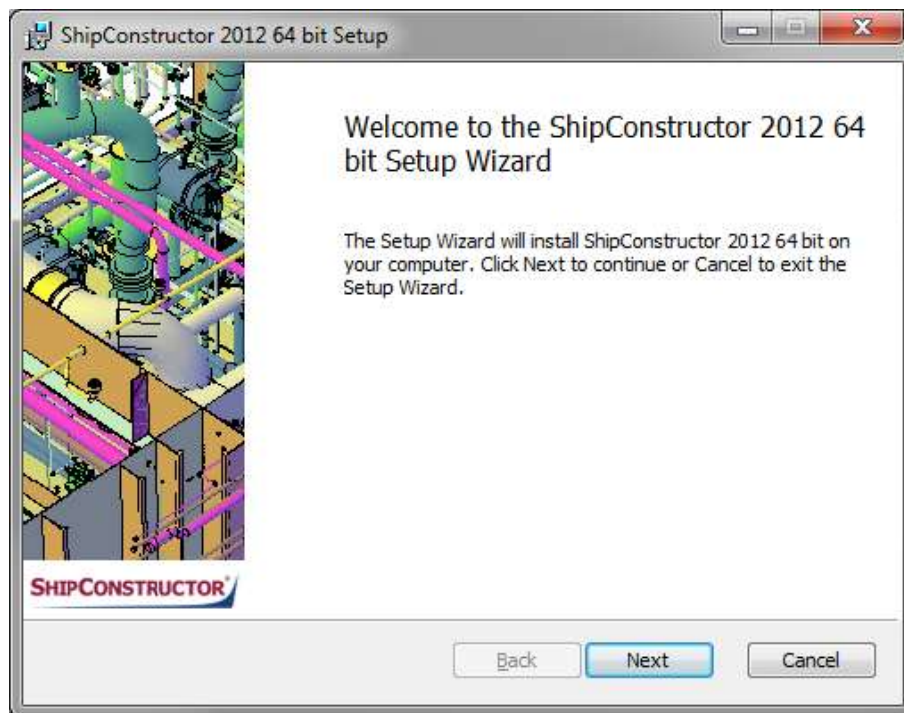


Note: If you have Autorun disabled in Windows or if you have downloaded the full install from the internet, you will need to load setup manually.

- The menu will change to the **Select Setup Type** menu. Click **Install Client** to launch the installer.

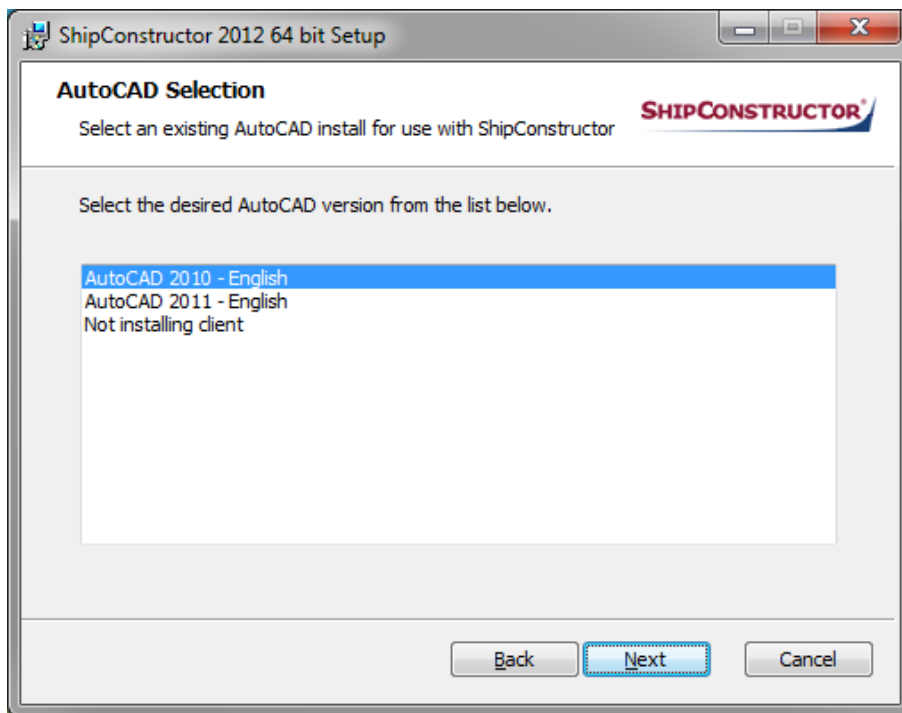


- Click the **Next** button to start the install process.

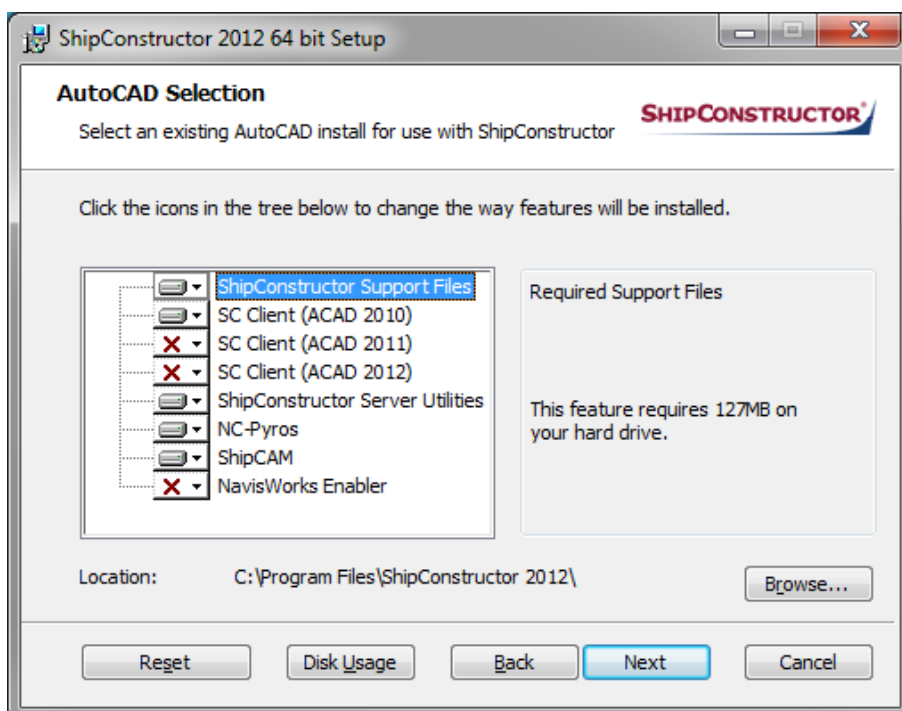


- Click **Next**. The **License Agreement** appears. Read the agreement carefully, accept the terms, and then click **Next**.

5. You will be presented with the **AutoCAD Selection** dialog. ShipConstructor 2012 can only be installed for one version of AutoCAD. This dialog will display all versions of AutoCAD you have installed. Select an existing compatible AutoCAD install for use with ShipConstructor 2012 and click **Next**.



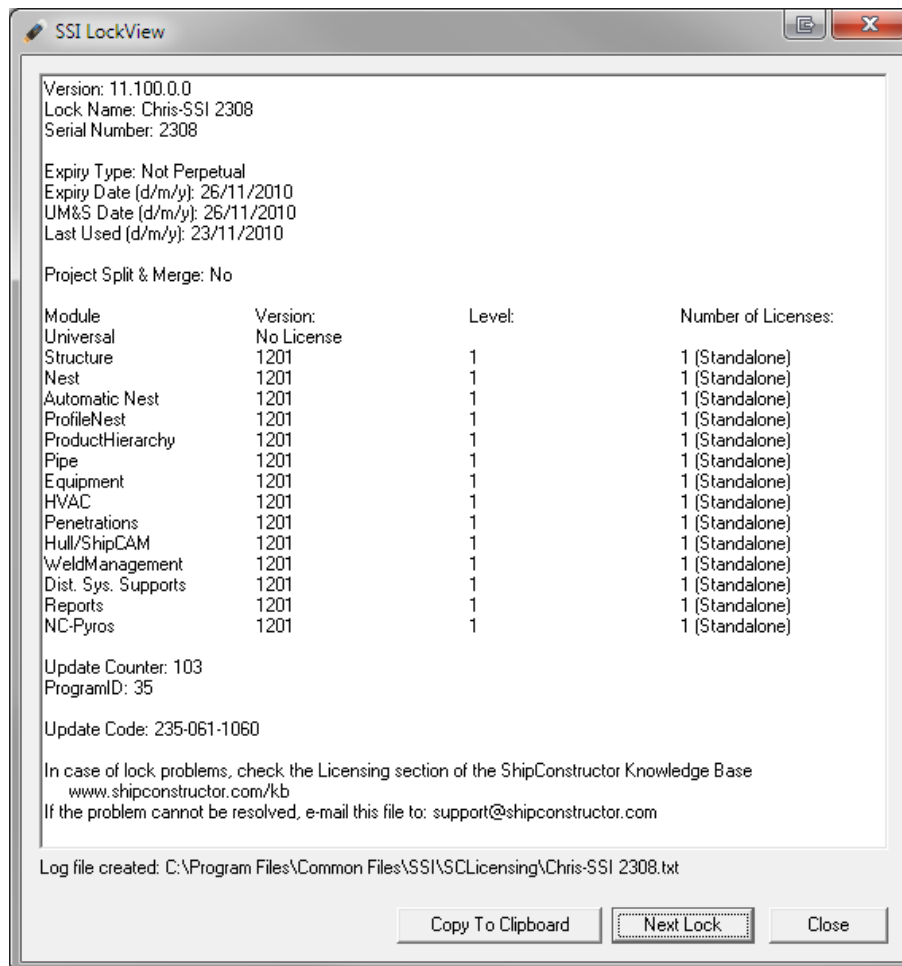
6. You will be presented with the **Custom Setup dialog**. By default, the client installation method installs the necessary components on the current workstation for ShipConstructor 2012 to run while accessing project files and databases on a remote server. You can add or remove features if you want to further customize your install although it is recommended that most users leave the default options.



7. Click **Next**. ShipConstructor 2012 is now ready to install. Click **Install** to begin the installation process.
8. Once the installer has completed click the **Finish** button to close the installer.

Activate ShipConstructor Licensing

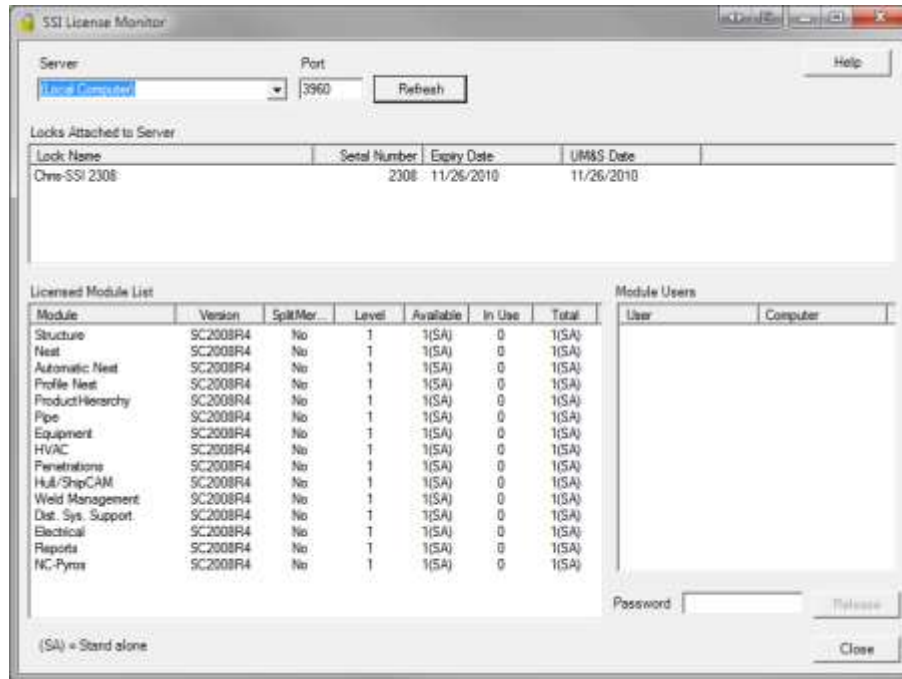
1. To ensure locks are viewable by the **License Server** plug the **Lock(s)** into the **USB port(s)** of the computer for hosting the **License Server**.
2. On the **License Server** computer, go to your **Start** menu and choose **All Programs->ShipConstructor Licensing** and click on **LockView** to open the **LockView dialog**. Ensure that the locks can be viewed.



Note: If you receive the message, "Unable to View Lock", contact ShipConstructor Software Inc. for technical support.

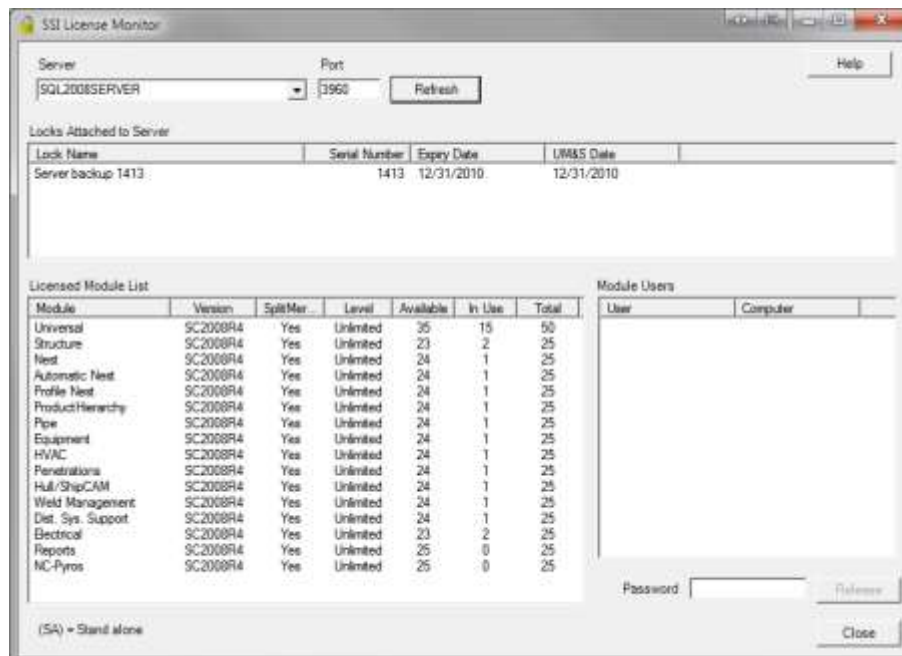
3. On the **License Server** computer, go to the **Start menu** and choose **All Programs->ShipConstructor Licensing** and click on **License Monitor**.

- In the **Server textbox** select **(Local Computer)** and click **Refresh**. The Locks should appear below in the Locks Attached to the Server area. The license information should appear below that in the Licensed Module List.

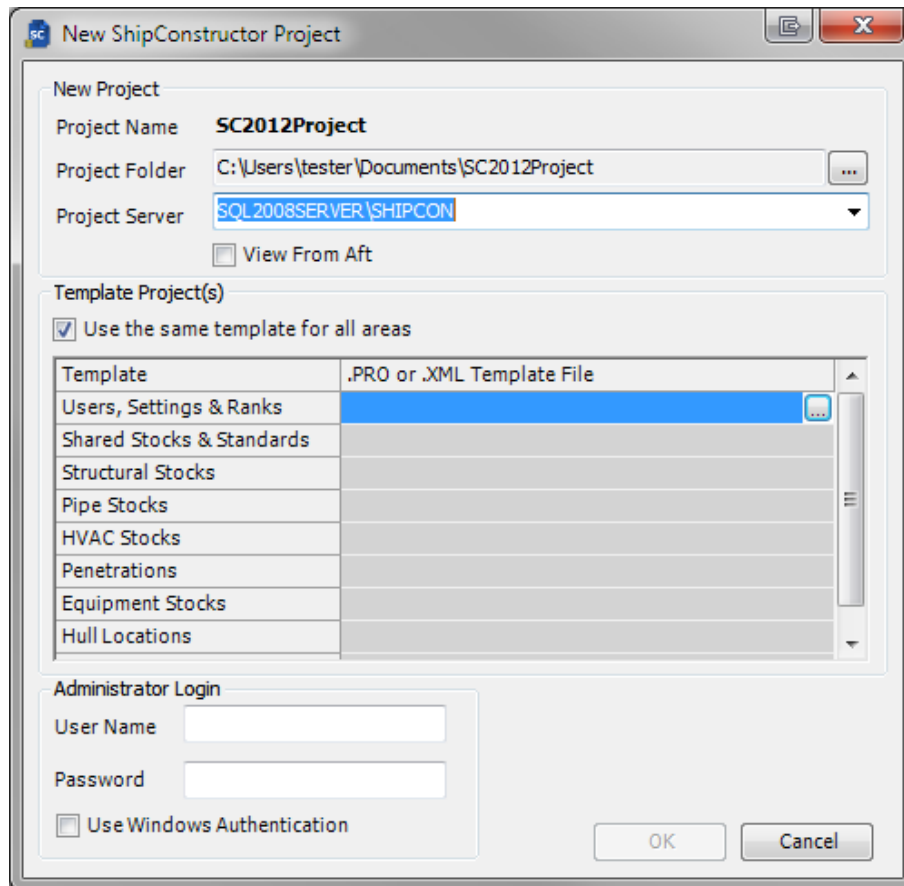


Note: If the License Monitor is unable to see your lock you may need to start the ShipConstructor License Server service.

- Click the **Close** button to close the **License Server Monitor** once you have verified that it is connecting to the lock properly.
- To ensure licenses are viewable by the ShipConstructor Client, on the computer hosting the ShipConstructor Client go to your Start menu and choose **All Programs->ShipConstructor Licensing** and click on **License Monitor**.
- In the **Server textbox**, enter the **IP address** or the **name of the license server** and click **Refresh**. If the License Monitor can connect to the lock it will display it in the Locks Attached to Server area and you will see a list of modules on the lock in the Licensed Module List.

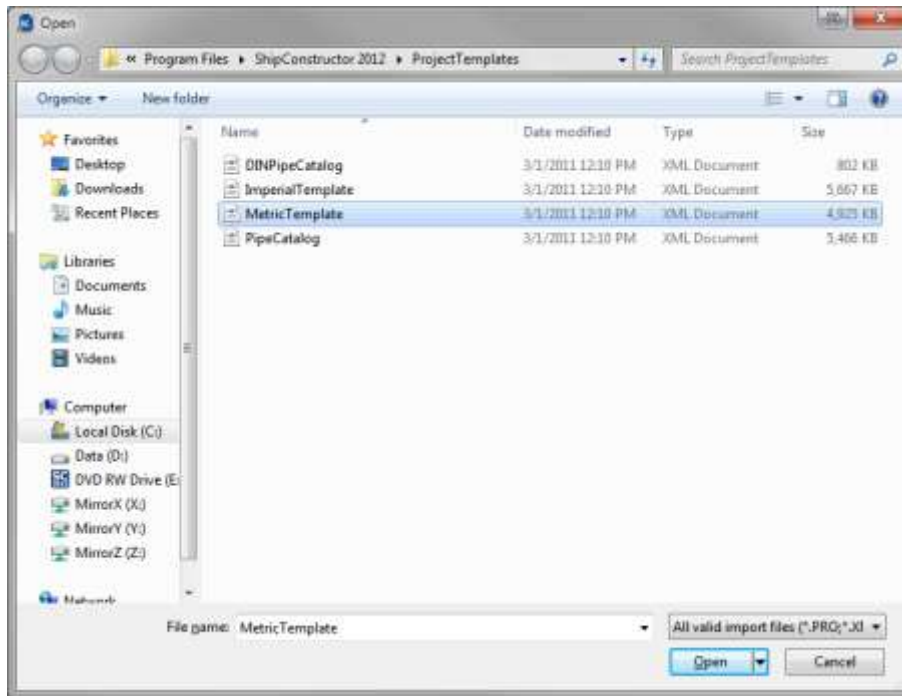


- Once you have verified that the client can see the License Server, click **Close** to close the License Monitor window.
- To complete the process you will need to create a new project in ShipConstructor. Go to your **Start menu** and choose **All Programs->ShipConstructor 2012** and click on **ShipConstructor 2012** to launch the program.
- From the **ribbon bar** choose **New Project**. The **New ShipConstructor Project dialog** will open.

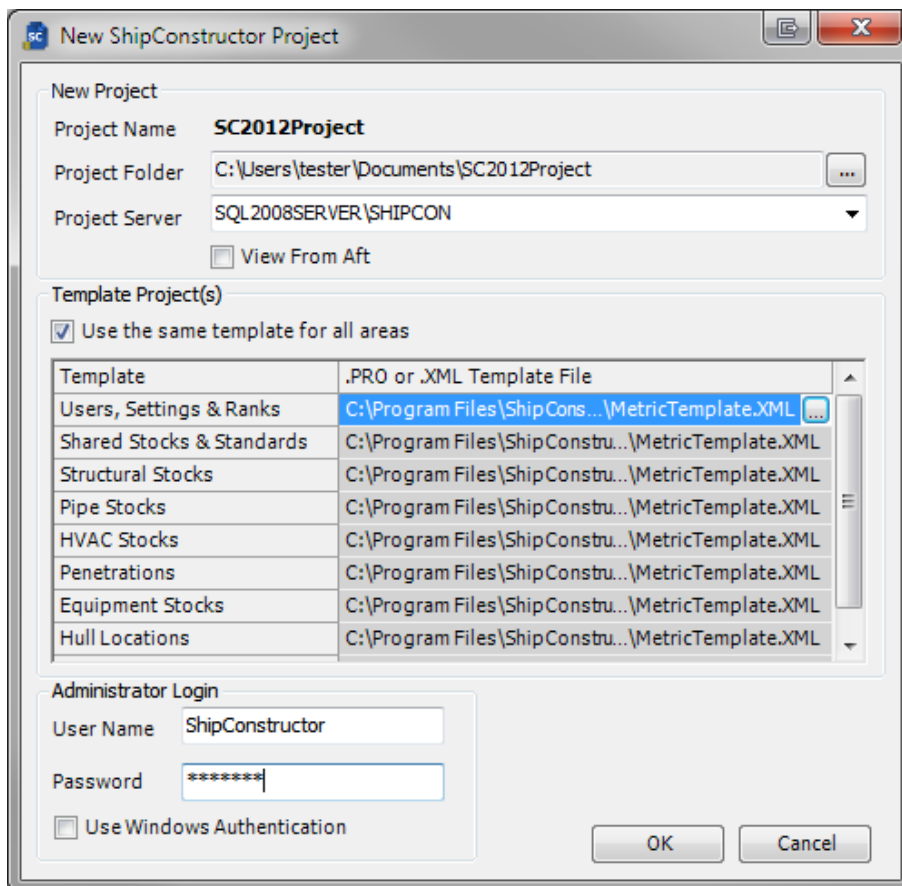


- Click on the ... button next to the **Project Folder** text box then choose a folder to store your project in. This can be on your computer or another computer on your network.
- For the **Project Server** choose the machine on your network that has your SQL server installed. This will be listed in the format **<Machine Name>\SHIPCON**.
- Under **Template Project(s)** put a checkmark in the **Use the same template for all areas**.

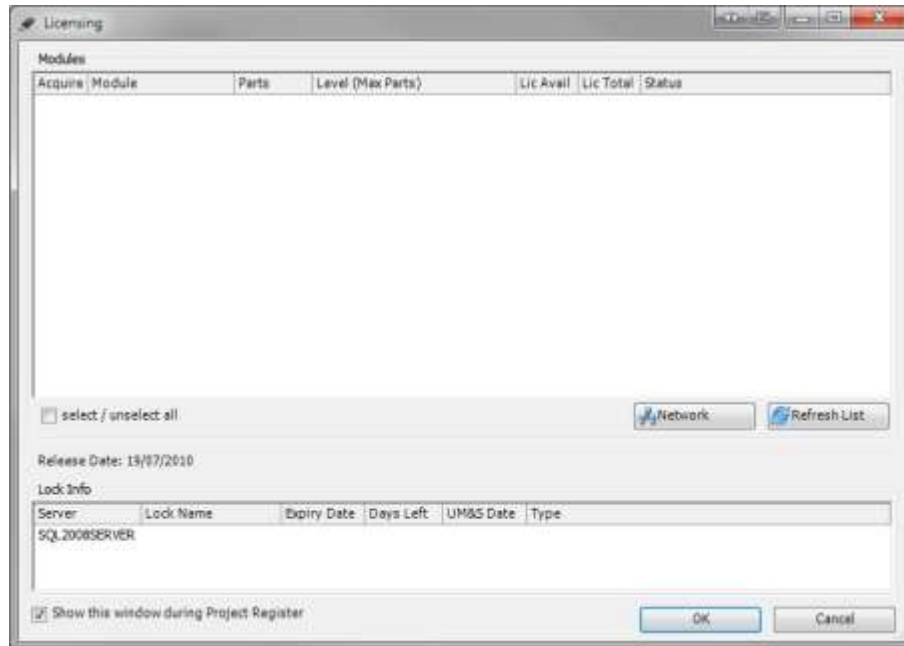
- Under the **.PRO or .XML Template File** heading, click on the ... button beside **Users, Settings & Ranks**. Then choose **MetricTemplate** or **ImperialTemplate** from the dialog box. Click **Open**.



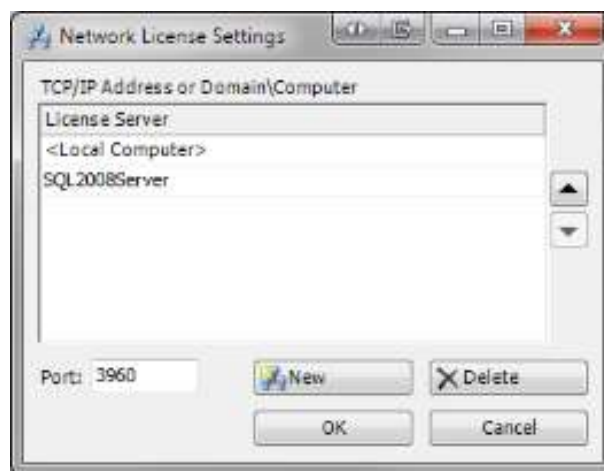
- After a few seconds you should see that all of the templates have been populated with the path and template file that you just chose.



16. In the **User Name text box** in the **Administrator Login section**, enter **ShipConstructor**. Then, in the **Password text box**, enter the password that you used for this user during installation.
17. Click **OK** to create the project. The project creation will take several minutes to complete.
18. Once the **New Project Created** dialog box pops up press **OK** to close it.
19. You will now need to connect to project that you just created. Click on the **Navigator button** in the **ribbon** to bring up the **Register Project window**.
20. Click on the newly created project and enter **ShipConstructor** for the **User Name**. Then enter your **password** for the ShipConstructor user. Click on **Open** to open the project. The **Licensing window** will automatically open for you.

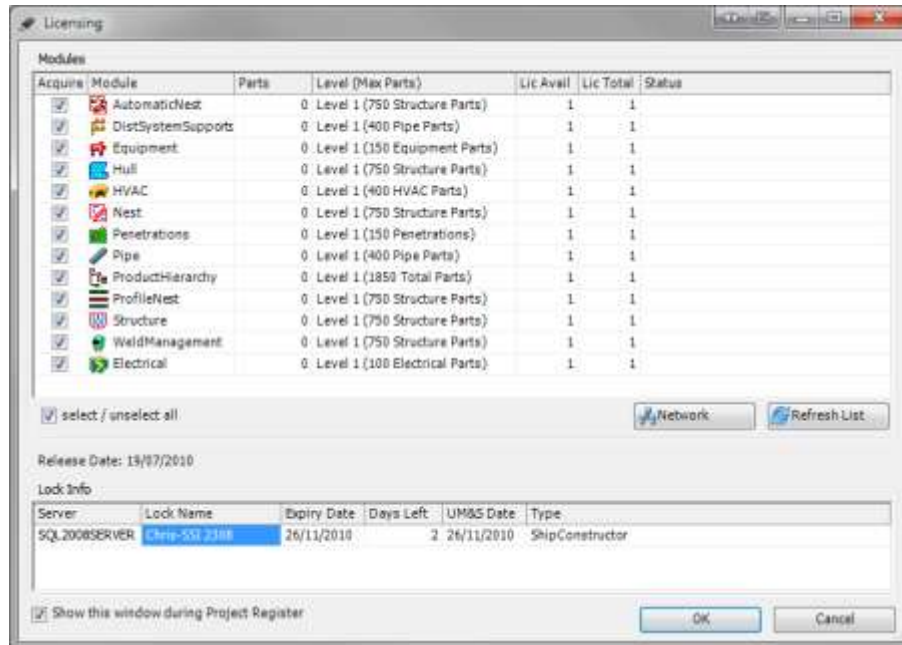


21. Click on the **Network button** to open the **Network License Settings** window.



22. Click on the **New** button and under License Server enter the **machine name** or **TCP/IP address** of the server where your USB hardware lock is plugged in.

23. Click on **OK** to close the **Network License Settings** window and to retrieve the license information. You will return to the **Licensing** window.



24. If your licenses have been successfully retrieved you will see all of the available acquired modules as well as their status.
25. Click **OK** to close the **Licensing** window. The **ShipConstructor Navigator** will load. Click **Close** to close the **ShipConstructor Navigator**. You have now successfully installed ShipConstructor on your network.

Note: If you have other machines on your network that need to have ShipConstructor installed you can re-run the client installation and activate licensing steps on each machine.

Standalone Installation

Overview

The basic process of installing ShipConstructor for a Standalone Installation involves the following steps:

1. Install and/or Configure SQL Server
2. Install ShipConstructor Files
3. Enable Licensing

Install SQL Server 2005 Express on Windows XP

1. Insert the **ShipConstructor 2012 DVD** into your DVD drive. The **Install menu** will Autorun.



Note: If you have Autorun disabled in Windows or if you have downloaded the full install from the internet, you will need to load setup manually.

2. Click **Install ShipConstructor 2012**. The **Setup Type** menu will appear.
3. Click **Install Standalone**. The **ShipConstructor 2012 Standalone Installation** menu will appear.



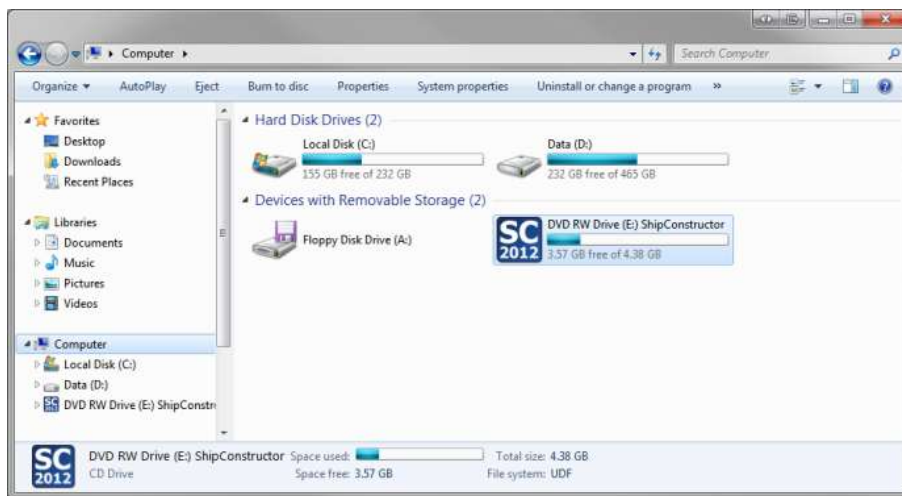
4. Click **Install Microsoft SQL 2005 Express Edition**. The SQL Server 2005 Express Edition installer will launch, install and configure SQL automatically for use with ShipConstructor 2012.

Install SQL Server 2005 Express Edition on Windows 7, Windows Vista, Windows Server 2008 or Windows Server 2008 R2

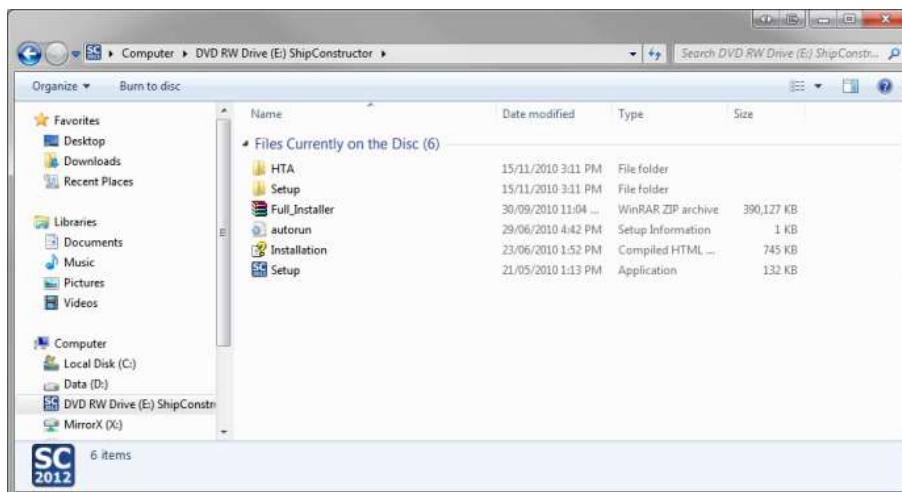
1. Insert the **ShipConstructor 2012 DVD** into the DVD drive in your computer. The **Install menu** will Autorun.

Note: If you have Autorun disabled in Windows or if you have downloaded the full install from the internet, you will need to load setup manually.

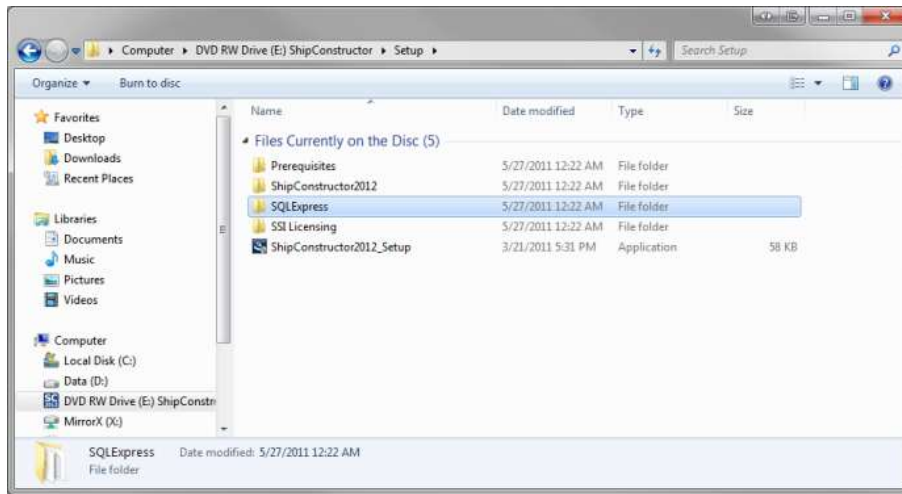
2. Click the **Exit** button to close the Install menu.
3. Go to the **Start Menu->Computer** to open **Windows Explorer**.



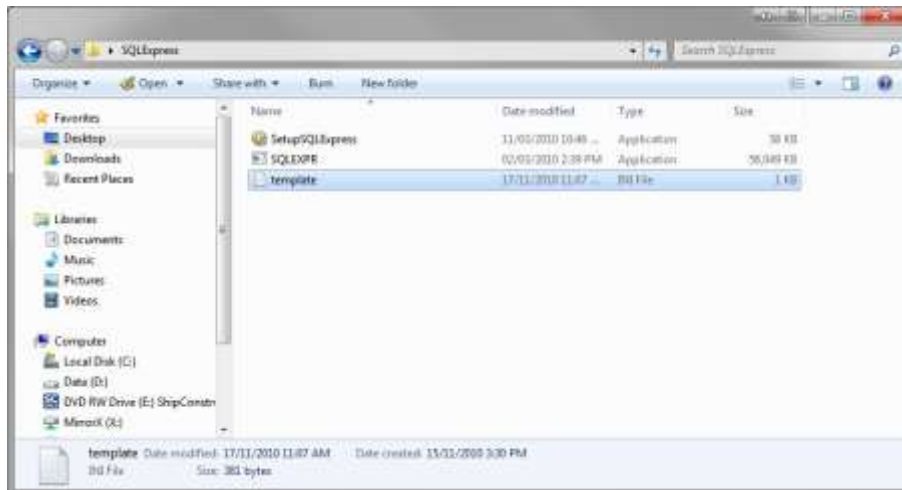
4. Right click on the **DVD drive** that the **ShipConstructor 2012 disc** is in and choose **Open** from the **right click menu**.



- Open the **Setup** folder to list the contents.



- Copy and paste the **SQLExpress** folder from the **Setup** folder onto your desktop.
- Open the **SQLExpress** folder that you just copied to your desktop.
- Edit the **template.ini** with your favourite text editor.



- Look for the line that says **SAPWD=ShipCon** and add a **1** onto the end of **ShipCon** so the line reads as **SAPWD=ShipCon1**.



- Save the **file** and close the **text editor**.

11. Launch the **SQL setup** process by double clicking on the **SetupSQLExpress** icon. SQL will now launch, install and configure itself for use with ShipConstructor 2012.

Installing and Configuring All Other Version of SQL

Note: The following steps are only required if installing SQL Server 2005, SQL Server 2005 Express Edition (downloaded version), SQL Server 2008, or SQL Server 2008 R2. The version that is included on the ShipConstructor 2012 disc is pre-configured to work with ShipConstructor 2012.

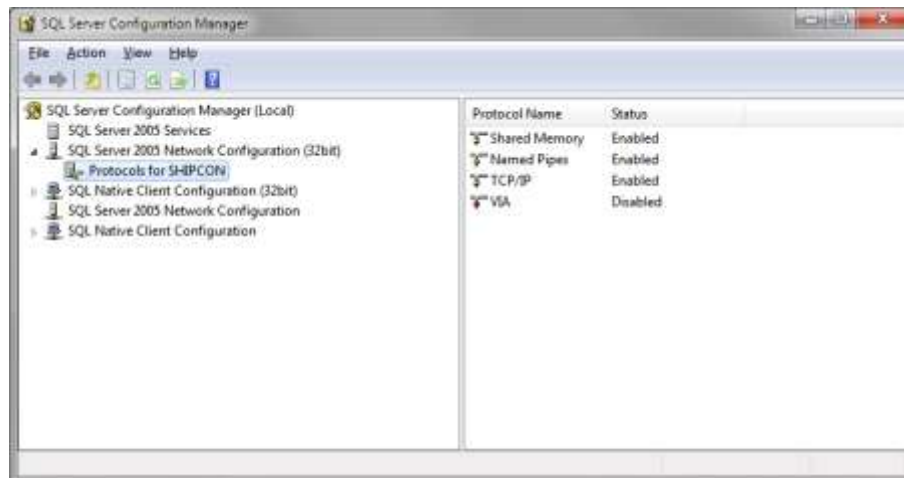
After installing any of the supported versions of SQL Server as per Microsoft's instructions you will need to go through the following configuration steps to make SQL work with ShipConstructor.

These steps will perform the following:

- Enable TCP/IP and Named Pipes Protocols
- Enable Remote Connections
- Turn on the SQL Server Browser Service
- Enable xp_cmdshell
- Configure the Maximum Degrees of Parallelism

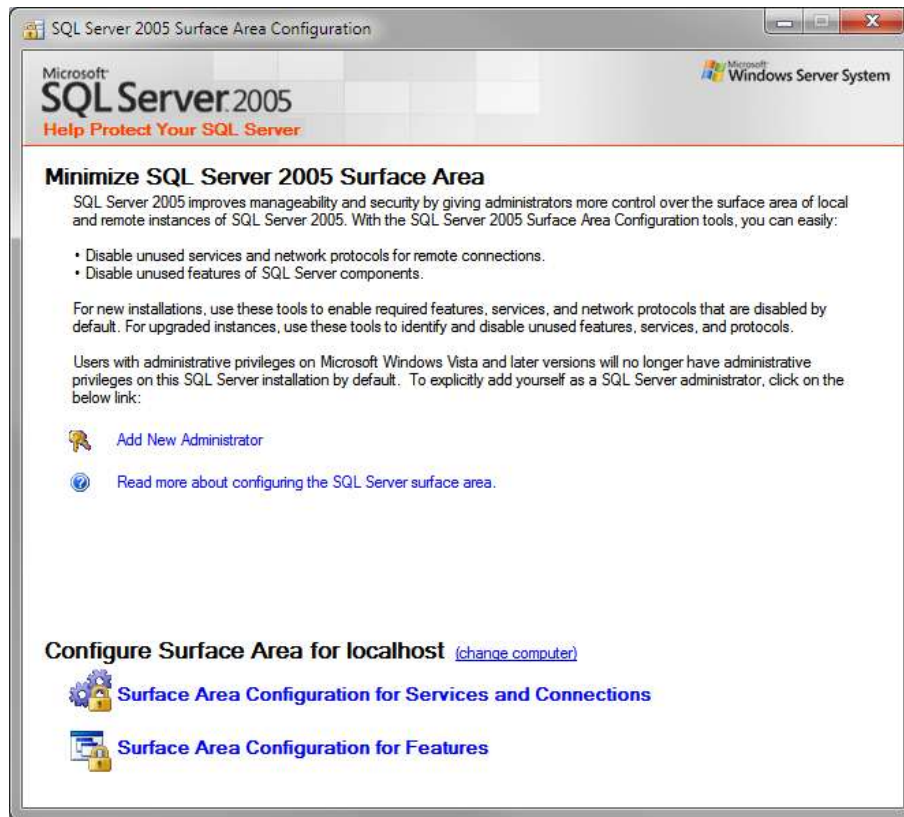
Configuring SQL Server 2005 or SQL Server 2005 Express Edition (downloaded version)

1. Go to the **Start menu** and under the **All Programs->Microsoft SQL Server 2005->Configuration Tools** menu choose **SQL Server Configuration Manager**.
2. Under **SQL Server Configuration Manager (Local)** expand **SQL Server Network Configuration**.
3. Select the **Protocols for <Instance Name>** node in the tree on the left.

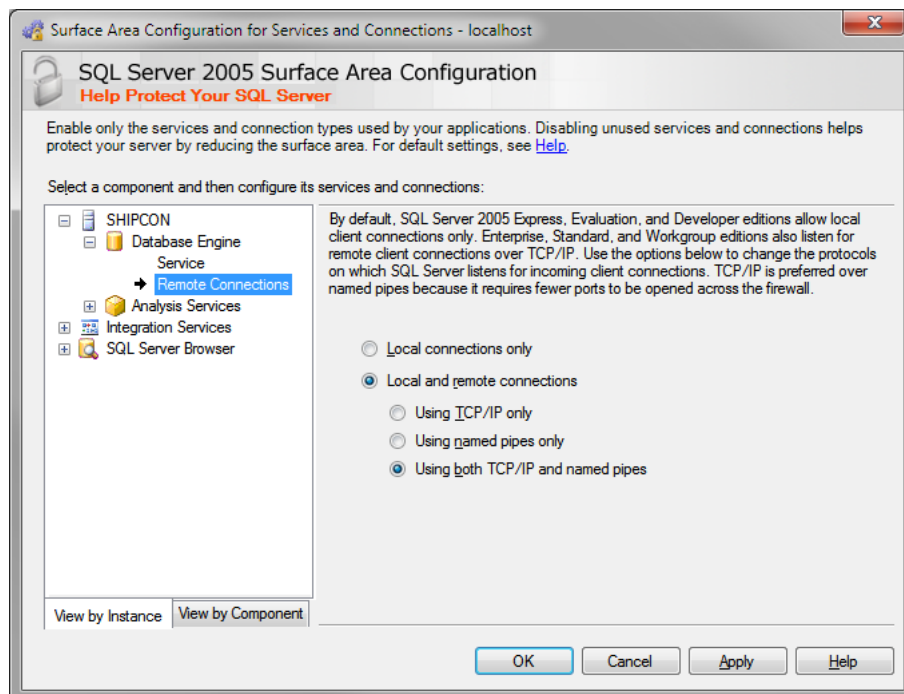


4. Right-click on **TCP/IP** and select **Enabled**.
5. Right-click on **Named Pipes** and select **Enabled**.
6. Choose **File->Exit** to close the **SQL Server Configuration Manager**.
7. Go to the **Start menu** and under the **All Programs->Microsoft SQL Server 2005->Configuration Tools** menu choose **SQL Server 2005 Surface Area Configuration**.

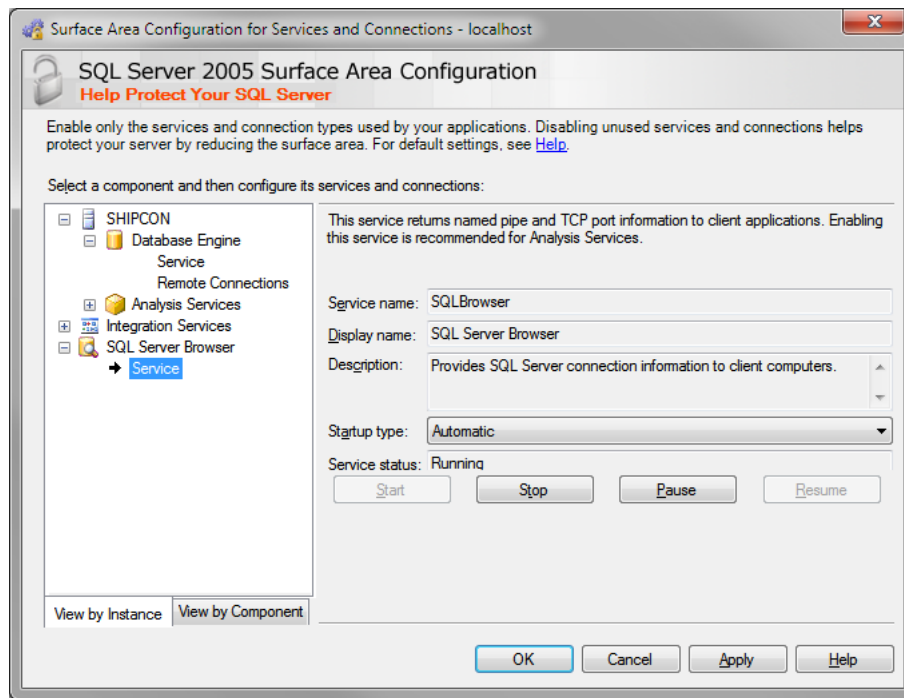
8. Click on the **Surface Area Configuration for Services and Connections** link.



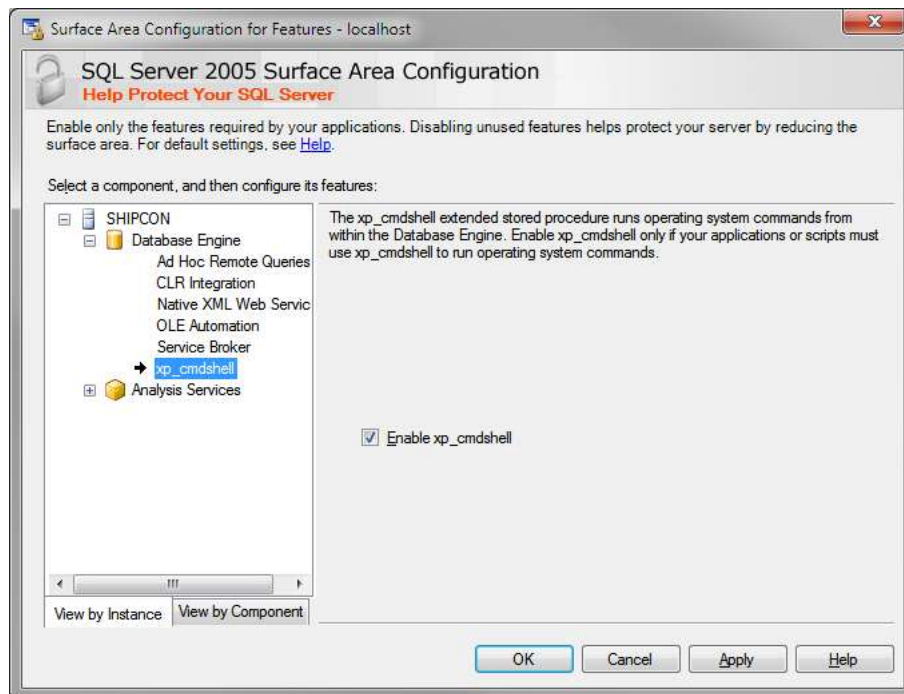
9. Under **<Instance Name>\Database Engine\Remote Connections**, select **Local and Remote Connections**, and **Using both TCP/IP and named pipes**.



10. Click **Apply** to save the changes.
11. Under **<Instance Name>\SQL Server Browser\Service**, set the **Startup type** to **Automatic**, and click the **Start button** to start the service.



12. Click **OK** to save the changes and return to the SQL Server 2005 Surface Area Configuration window.
13. Click on the **Surface Area Configuration for Features** link.
14. Under **<Instance Name>\Database Engine\xp_cmdshell**, Check the **Enable xp_cmdshell** checkbox.

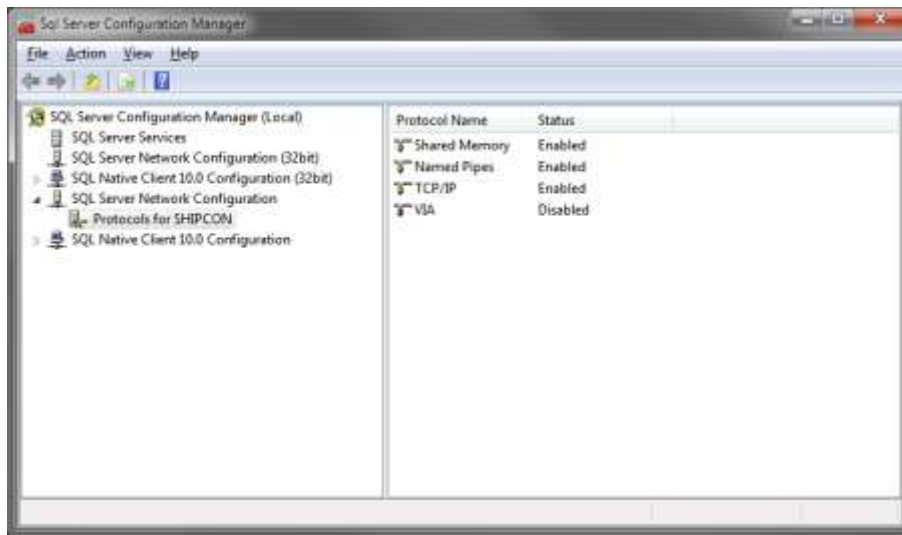


15. Click **OK** to close the window and return to the **SQL Server 2005 Surface Area Configuration** window. Close the **SQL Server 2005 Surface Area Configuration** window to complete the setup. Your computer is now ready for installation of the ShipConstructor Server files.

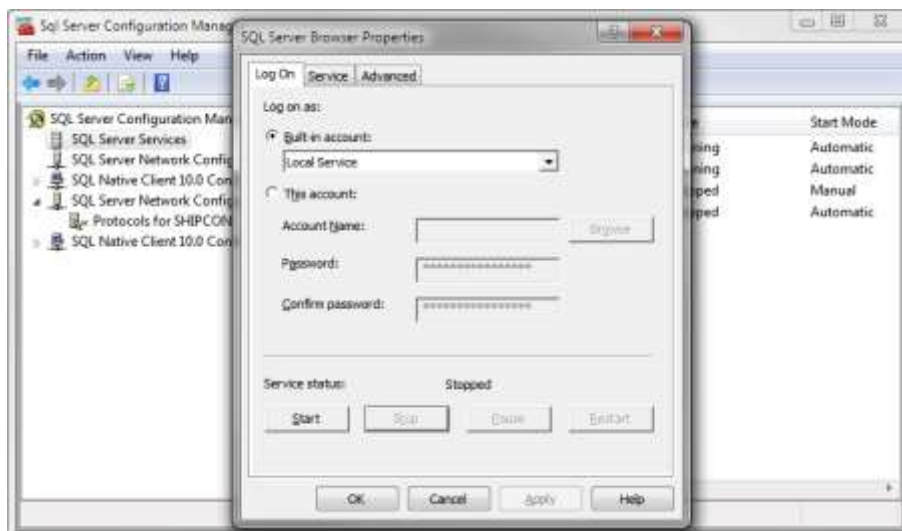
Note: You may be required to restart your computer after making these changes. Please restart before installing the ShipConstructor Standalone files to ensure that the settings are up to date.

Configuring SQL Server 2008 or SQL Server 2008 R2

1. Go to your **Start menu** and choose **All Programs->Microsoft SQL Server 2008->Configuration Tools** and click on **SQL Server Configuration Manager**.
2. Under **SQL Server Configuration Manager (Local)** expand **SQL Server Network Configuration**.



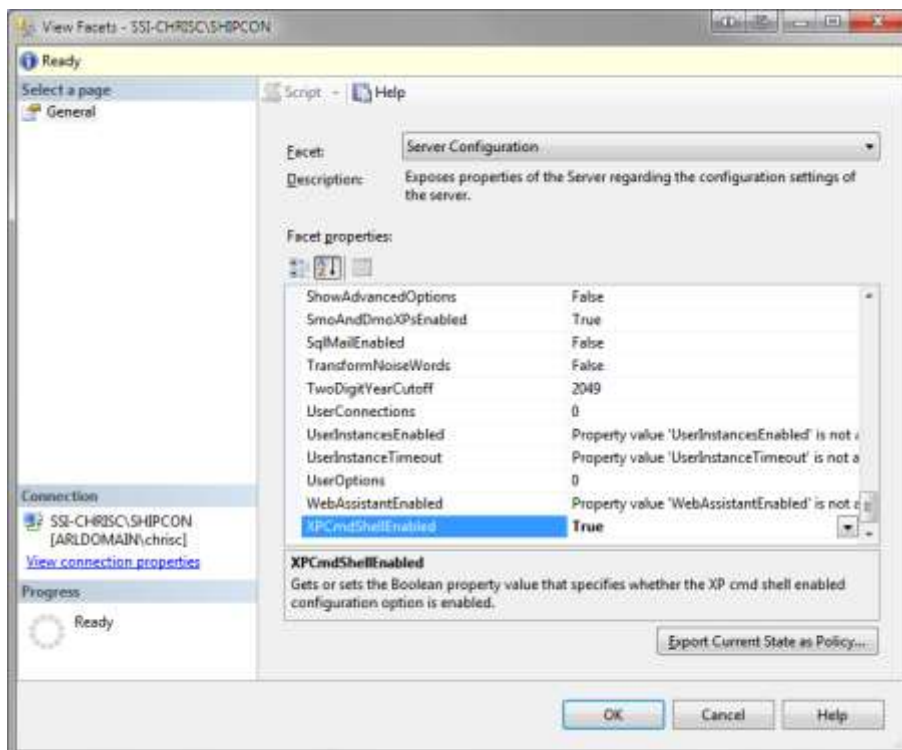
3. Select the **Protocols for <Instance Name>** node in the tree on the left.
4. Click on the status for **Named Pipes** and change it to **enabled**.
5. Click on the status for **TCP/IP** and change it to **enabled**.
6. Select the **SQL Server Services** node under **SQL Server Configuration Manager (Local)** from the tree on the left.
7. In the right hand side pane, right click on **SQL Server Browser** and choose **Properties** from the right click menu.
8. In the **SQL Server Browser Properties** window that opened, click on the **Start** button to start the service if it isn't already started.



- Click **OK** to save the changes and close the **SQL Server Browser Properties** window.
- Under the **File** menu choose **Exit** to close the **SQL Server Configuration Manager**.
- Go to your **Start** menu and choose **All Programs->Microsoft SQL Server 2008** and click on **SQL Server Management Studio**.
- Right click on the **Database Server Instance** that is being configured.

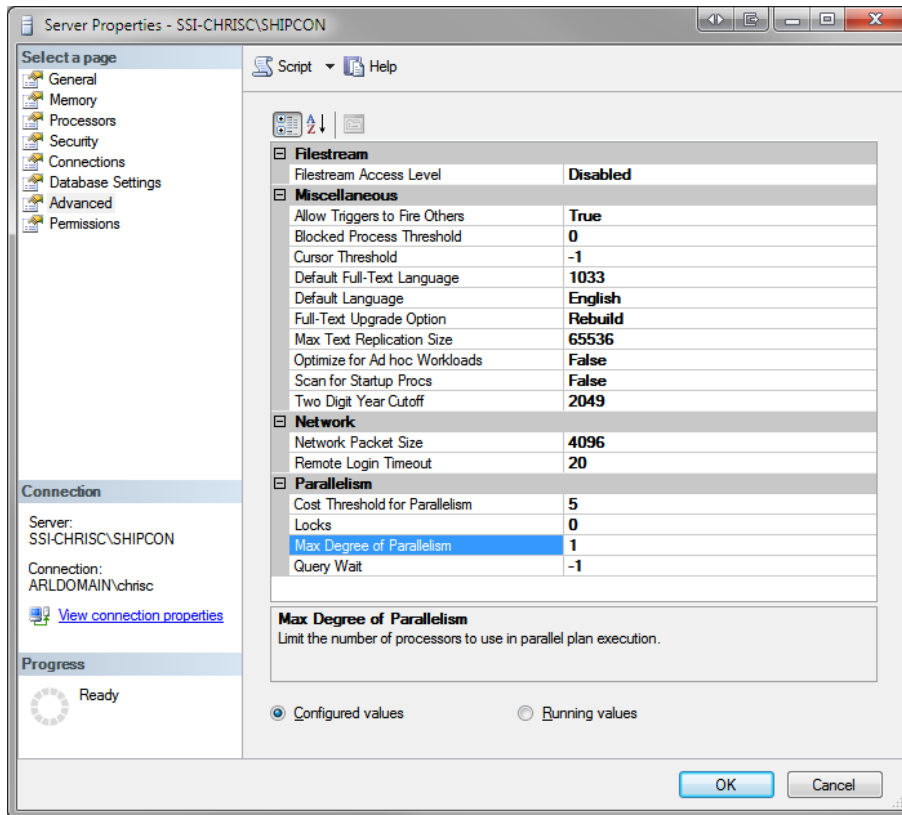


- Choose **Facets** from the right click menu to open the **View Facets Window**.
- Change the **Facets** dropdown to **Server Configuration**.
- Change **XPCmdShellEnabled** to **True**.

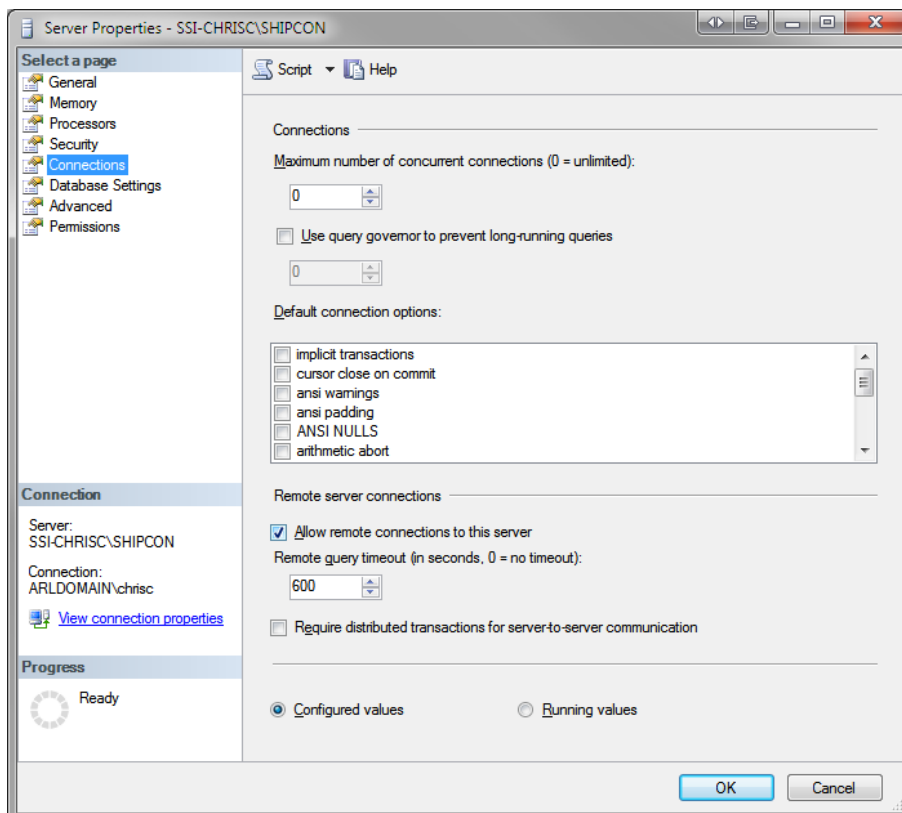


- Click **OK** to save the changes and close the **View Facets window**.
- In the **Object Explorer**, right click on your server instance and choose properties from the right click menu.
- In the **Server Properties window** that just opened, under **Select a page** click on **Advanced**.

19. In the right hand pane under the **Parallelism** section, change **Max Degree of Parallelism** to **1**.



20. Under **Select a page** click on **Connections**.
21. Under the **Remote server connections** section, ensure that **Allow remote connections to this server** is checked.



22. Click **OK** to save the changes and **close** the **Server Properties** window.
23. Close the **Microsoft SQL Server Management Studio** window to complete the configuration of your SQL server. Your computer is now ready for installation of the ShipConstructor Standalone files.

Note: You may be required to restart your computer after making these changes. Please restart before installing the ShipConstructor Standalone files to ensure that the settings are up to date.

Configuring Windows Firewall

If a firewall is turned on but not correctly configured, attempts to connect to SQL Server might be blocked. If this is the case, consult www.microsoft.com for instructions regarding manually configuring Windows Firewall.

Install ShipConstructor Standalone

1. Insert the **ShipConstructor 2012 DVD** into the computer that you wish to use for running ShipConstructor. The **Install menu** will Autorun.

Note: If you have Autorun disabled in Windows or if you have downloaded the full install from the internet, you will need to load setup manually.

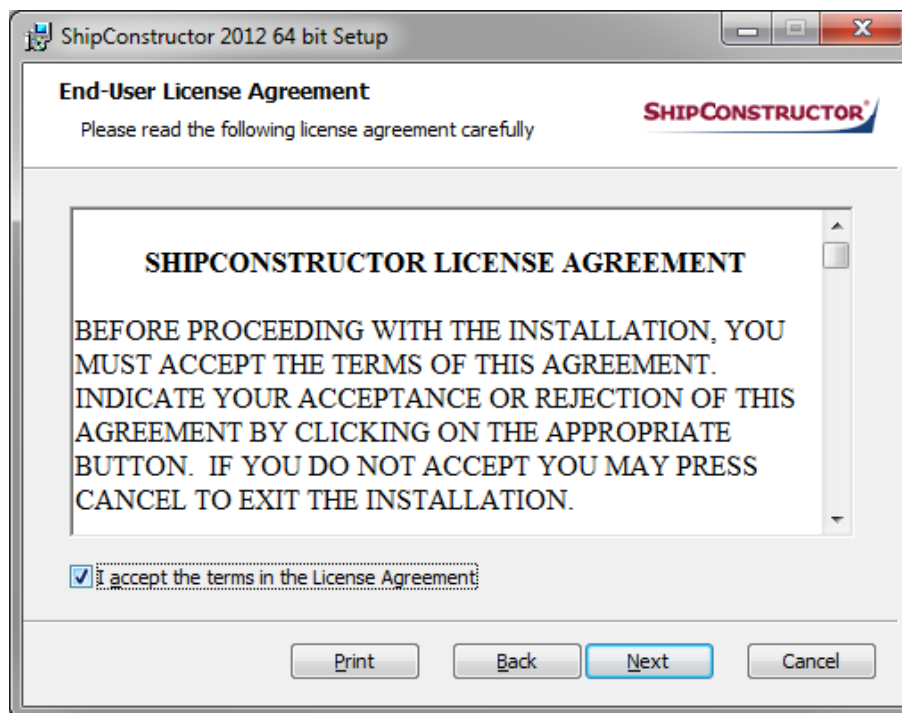
2. Click **Install ShipConstructor 2012**. The **Setup Type** menu will appear.



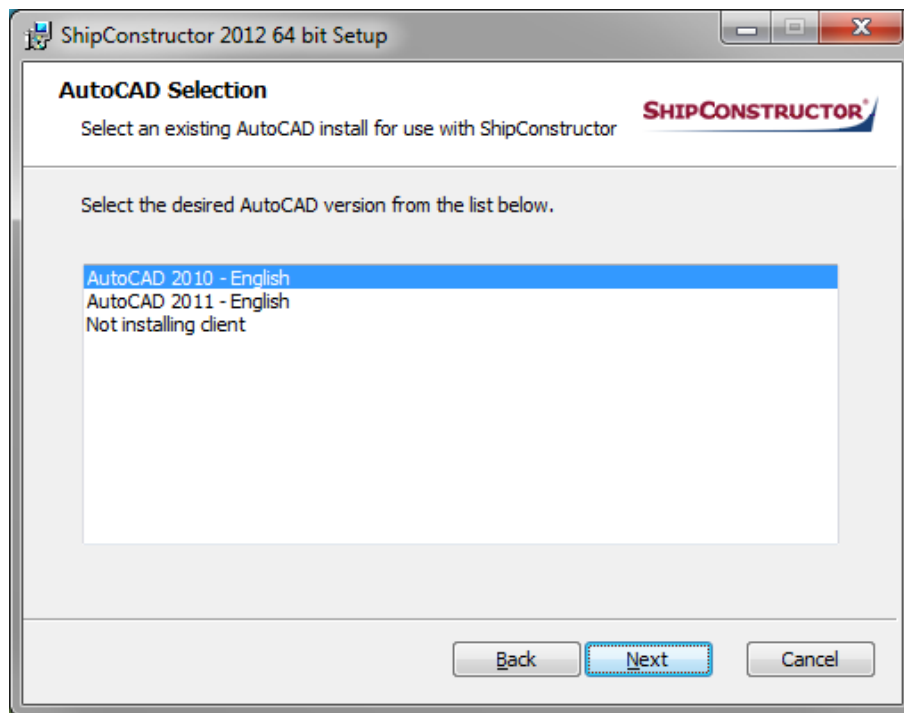
3. Click **Install Standalone**. The ShipConstructor 2012 Standalone Installation menu will appear.



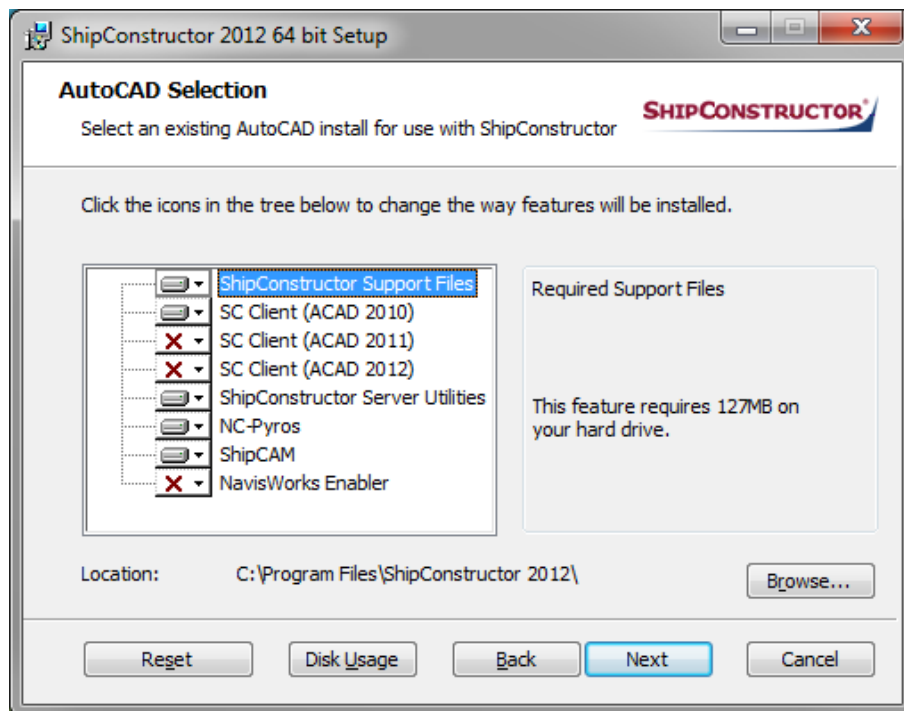
4. From the **ShipConstructor 2012 Standalone Installation** menu click **Install ShipConstructor Standalone**. Click **Next**.
5. The **License Agreement** appears. Read the agreement carefully, accept the terms, and then click **Next**.



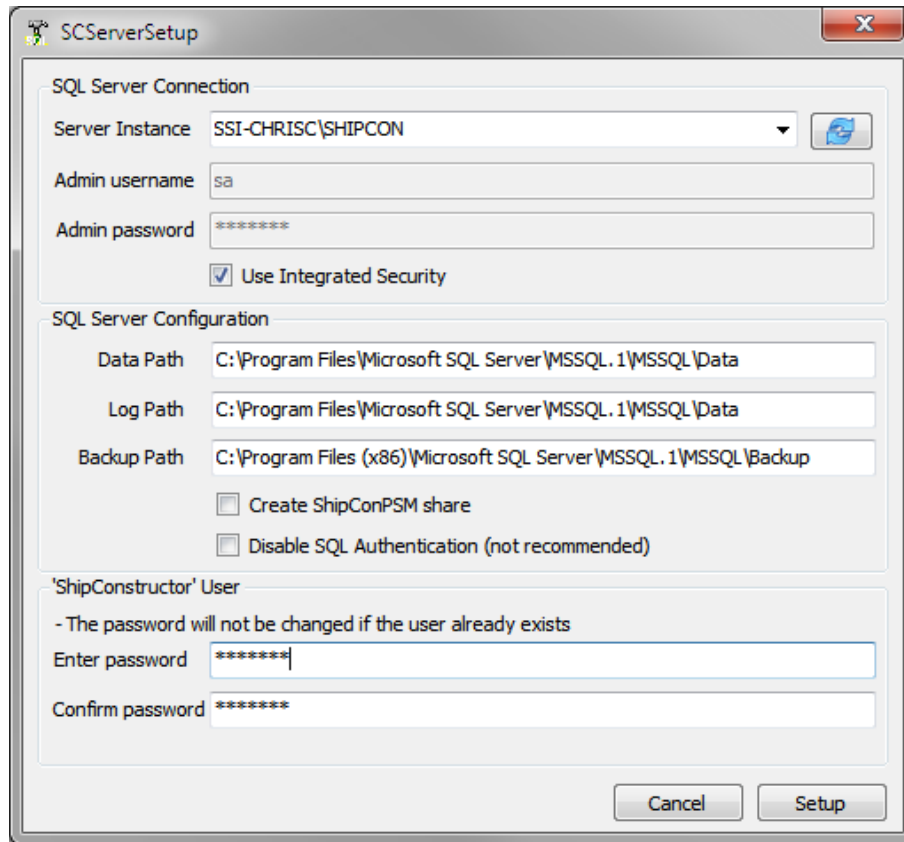
- You will be presented with the **AutoCAD Selection dialog**: ShipConstructor 2012 can only be installed for one version of AutoCAD. This dialog will display all versions of AutoCAD you have installed. Select an existing compatible AutoCAD install for use with ShipConstructor 2012 and click **Next**.




- You will be presented with the **Custom Setup dialog**: By default, the standalone installation method installs the entire ShipConstructor 2012 suite. You can add or remove features if you want to further customize your install although it is recommended that most users leave the default options. Click **Next**.



8. During installation, the **SCServerSetup** will load so that you can configure ShipConstructor to connect to your SQL database. On the **SCServerSetup Screen**, under the **SQL Server Connection section**, choose a **Server Instance** from the dropdown list. If you have installed the bundled SQL Server 2005 Express Edition, the SQL Server instance is listed as SHIPCON.



If you do not see the desired instance in the drop-down list, ensure that the server is currently running and running on the same machine. If it is not, start the service then click . If the server name still does not appear, type it in manually.

9. Ensure that the **Use Integrated Security** box is checked if you are running **SCServerSetup** as a **machine administrator (typical)**. Otherwise, enter a **SQL server username** and **password** for any user that has a **sysadmin** role.

Note: SQL creates an account called "sa" by default during setup. In the bundled SQL Server 2005 Express Edition the password is "ShipCon". If you installed SQL Server 2005 Express Edition on a version of Windows other than XP use the password you entered into the template.ini file. For full versions of SQL you will need to use the password you supplied for the "sa" user during setup.

10. Verify the details in the **SQL Server Configuration Section**. Match the Data, Log and Backup Paths to those used by your SQL installation. If you install the bundled version of SQL Server 2005 Express Edition on a 32-bit system the default paths will be correct.
11. If you intend to use ShipConstructor's Project Split and Merge functionality, check the **Create ShipConPSM share** box.

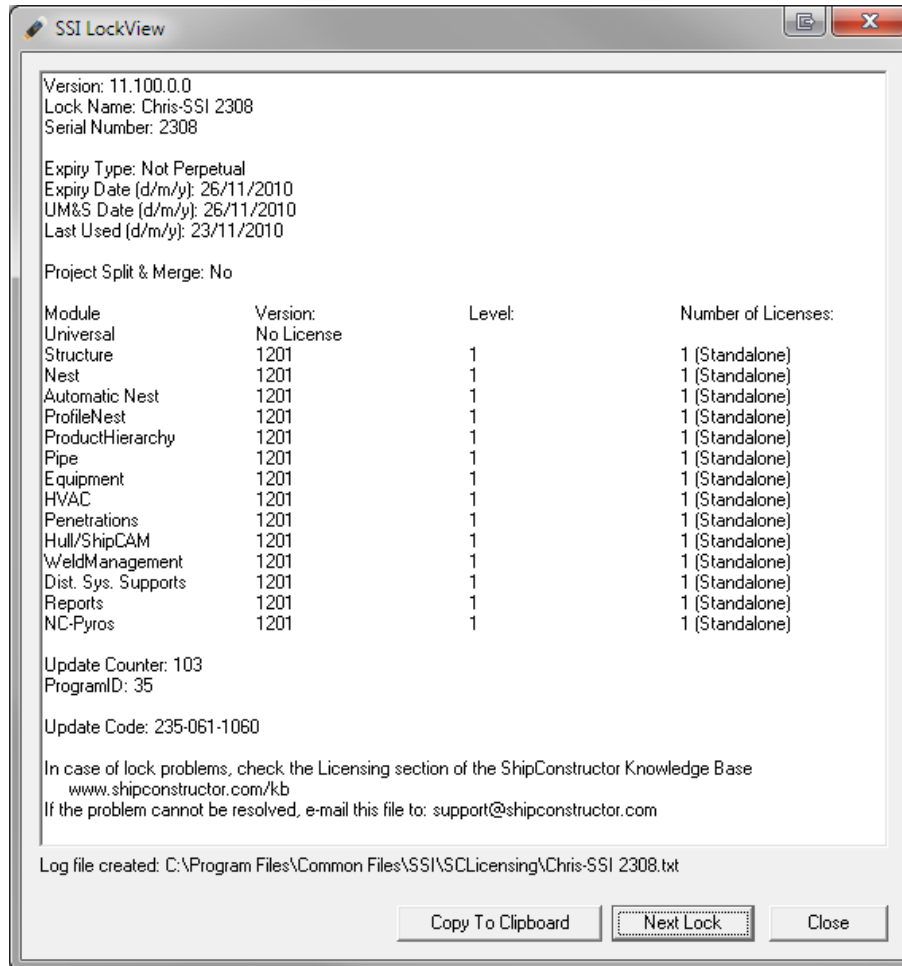
12. Leave the Disable SQL Authentication unchecked.

Note: If SQL Authentication is disabled, your server is set to Windows Authentication Only mode and will be inaccessible via SQL Authentication.

13. Under the **ShipConstructor User** section, enter and confirm the **user password** for the ShipConstructor user that will be created in the database. Make a note of this password as it will be required to connect to any ShipConstructor project you create.
14. Click **Setup** to have SCServerSetup perform the following tasks.
 - A. Set the Authentication Mode. By default it will verify that the selected instance of Microsoft SQL Server supports SQL Authentication. If your Microsoft SQL Server is set to Windows Authentication Only, it will change the setting to Mixed Mode which supports both Windows Authentication and SQL Authentication modes.
 - B. Connect to SQL using the specified account.
 - C. Add the user ShipConstructor with the password ShipCon as a sysadmin account.
 - D. Enable the xp_cmdshell stored procedure.
 - E. Set the SQL Server default log, data, and backup folders.
 - F. Create the ShipConPSM shared folder (if checked). The ShipConPSM shared folder on the server is writable by everyone. If security is a concern you may limit the folder's security but it must be writable by the following users:
 - (a) Local System account (or whichever account your SQL Server is running as)
 - (b) Any domain user that will perform split and merge operations
15. Click Finish to close the window and complete the ShipConstructor Standalone installation. You may have to restart your computer before you can run ShipConstructor 2012.

Activate ShipConstructor Licensing

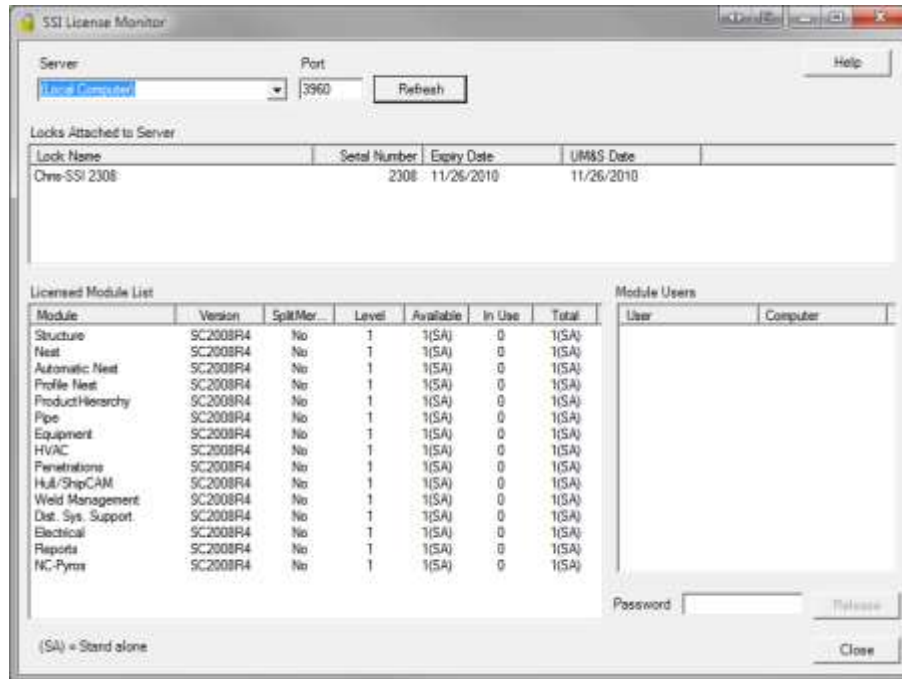
1. To ensure locks are viewable by the License Server Software plug the Lock(s) into the USB port(s) of your computer.
2. Click **Start** and go to **All Programs->ShipConstructor Licensing** and click on **LockView** to open the **LockView** dialog. Ensure that the locks can be viewed and click **Close**.



Note: If you receive the message, "Unable to View Lock", contact ShipConstructor Software Inc. for technical support.

3. Go to your **Start menu** and choose **All Programs->ShipConstructor Licensing** and click on **License Monitor**.

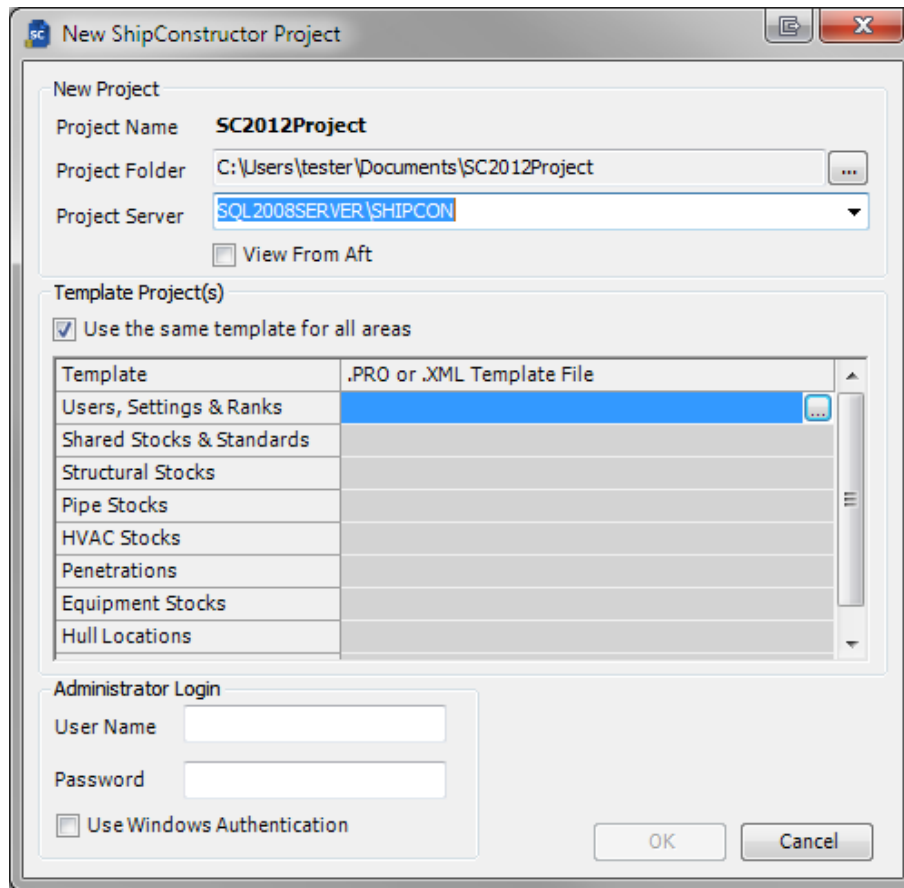
- In the **Server textbox** enter **(Local Computer)** and click **Connect**. The locks should appear below in the **Locks Attached to the Server** area. The license information should appear below that in the **Licensed Module List**.



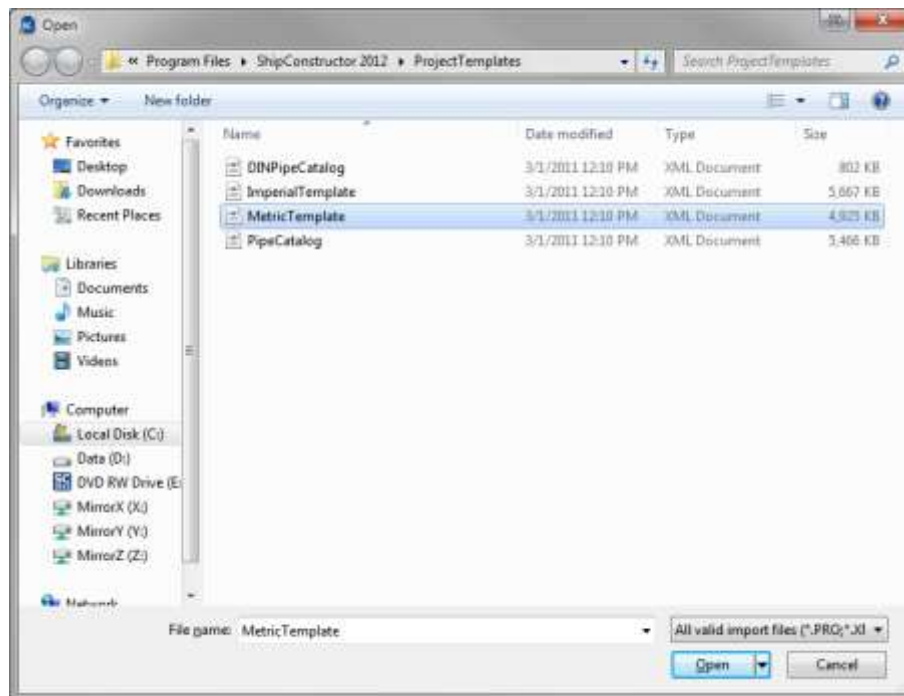
Note: If the License Monitor is unable to see your lock you may need to start the ShipConstructor License Server service.

- Click the **Close** button once to close the **License Server Monitor** once you have verified that it is connecting to the lock properly.
- You now need to register the locks with ShipConstructor. Go to your **Start menu** and choose **All Programs->ShipConstructor 2012** and click on **ShipConstructor 2012** to launch the program.
- From the **ribbon bar** choose **New Project**.
- Choose a **folder** to store the project.

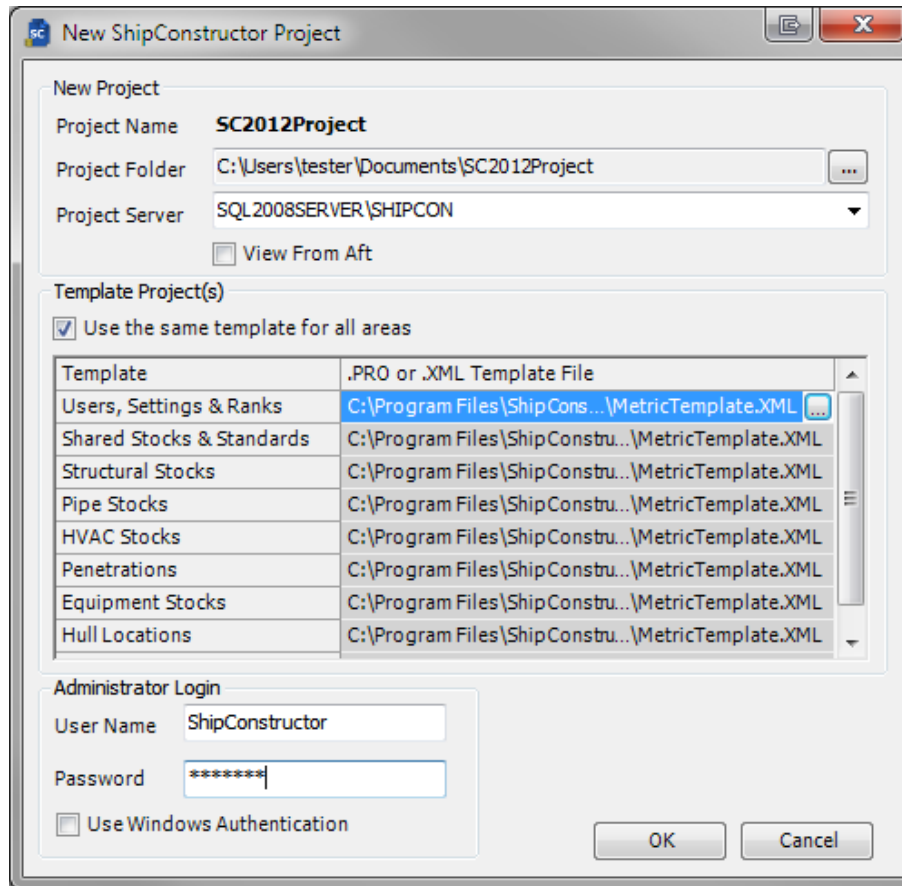
9. For the **Project Server** choose your computer. This will be listed in the format **<Machine Name>\SHIPCON**.



10. Under **Template Project(s)** put a checkmark in the **Use the same template for all areas** checkbox.
11. Under the **.PRO or .XML Template File** heading, click on the ... button beside **Users, Settings & Ranks**. Then choose **MetricTemplate** or **ImperialTemplate** from the dialog box. Click **Open**.

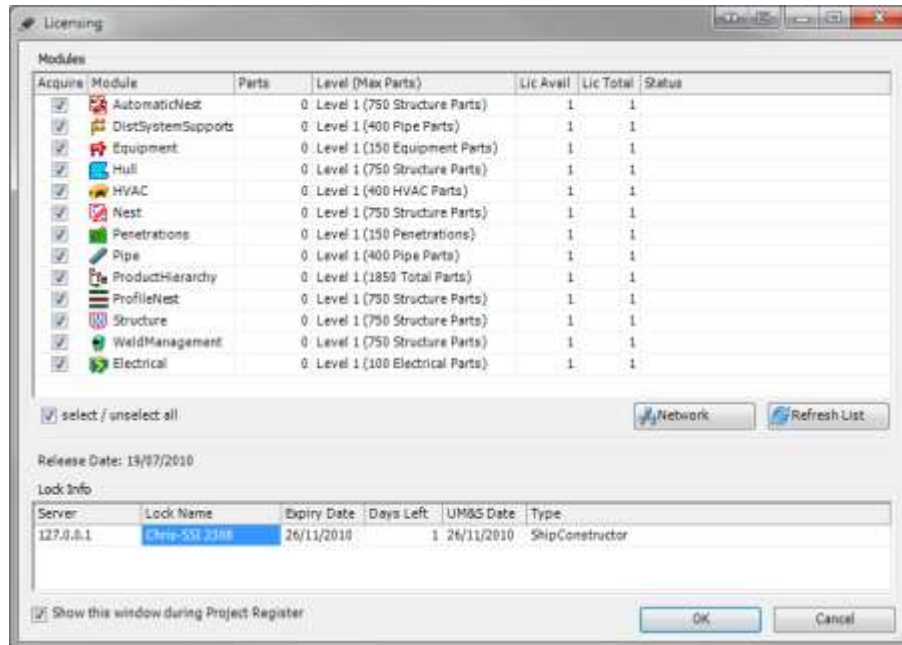


12. After a few seconds you should see that all of the templates have been populated with the path and template file that you just chose.
13. Under the **Administrator login** section, in the **User Name** field, enter **ShipConstructor**. In the password field, enter the password that you used when creating the ShipConstructor user.



14. Click **OK** to create the project. The project creation will take several minutes to complete.
15. Once the **New Project Created** dialog box pops up, press **OK** to close it.
16. You will now need to connect to the project that you just created. Click on the **Navigator** button in the ribbon to bring up the **Register Project** window.
17. Click on the newly created project and enter **ShipConstructor** for the **User Name**. Then enter your password for the ShipConstructor user. Click on **Open** to open the project.

18. The **Licensing** window will automatically open for you. If your licenses have been successfully retrieved you will see all of the available acquired modules as well as their status.



19. Click **OK** to close the **Licensing window**. The **ShipConstructor Navigator** will load. Click **Close** to close the **ShipConstructor Navigator**. You have now successfully installed ShipConstructor on your computer.

Chapter 3

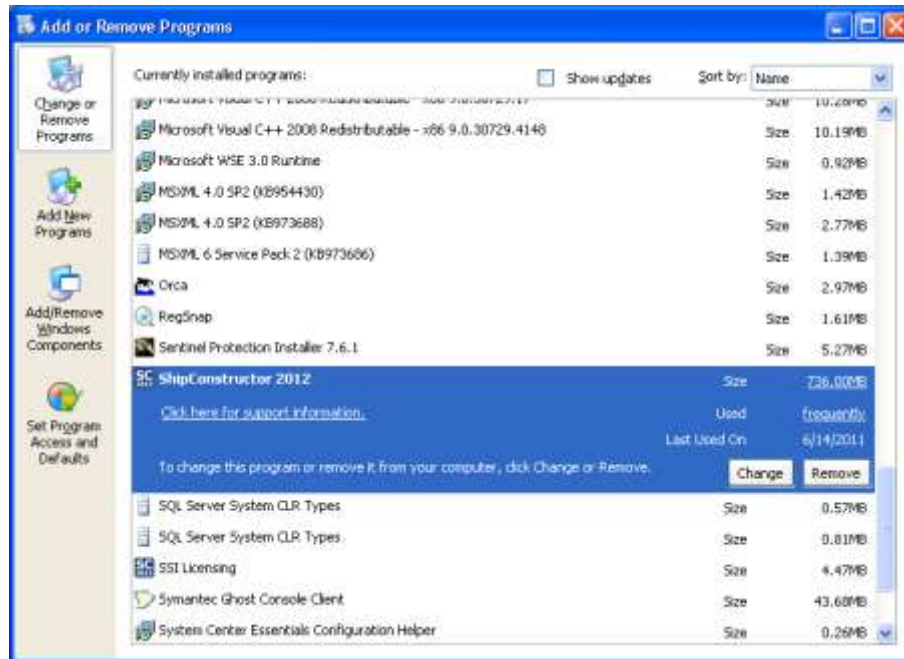
Modify or Remove ShipConstructor

Modify or Remove ShipConstructor

Remove ShipConstructor

To remove an installation of ShipConstructor 2012

1. Open the **Control Panel**.
2. Open **Add or Remove Programs**.
3. Find **ShipConstructor 2012** in the list of installed applications.



4. Click **Remove**. The confirmation window will appear.
5. Click **Yes** to remove ShipConstructor 2012.

To remove an installation of SSI Licensing

SSI Licensing handles licensing for all ShipConstructor products. You should only remove this if you are removing all ShipConstructor products.

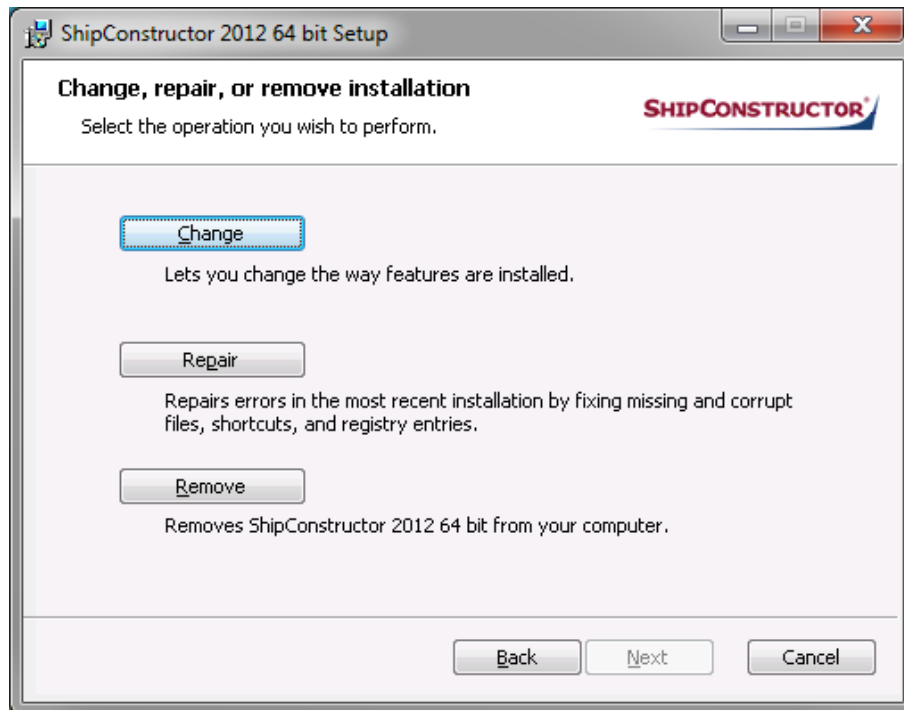
1. Open the **Control Panel**.
2. Open **Add or Remove Programs**.
3. Find **SSI Licensing** in the list of installed applications.
4. Click **Remove**. The **confirmation window** will appear.
5. Click **Yes** to remove SSI Licensing.

Modify ShipConstructor Installation

To add or remove features from a ShipConstructor 2012 installation

1. Open the **Control Panel**.
2. Open **Add or Remove Programs**.
3. Find **ShipConstructor 2012** in the list of installed applications.

4. Click **Change**. The **Installer** will launch.
5. Click **Next**. The following window appears.



6. Choose **Change** and then click **Next**. You will now see the list of features that you can add or remove.
7. Choose the **features** to add or remove, click **Next**, and then click **Install**.

Chapter 4

Updating ShipConstructor

Updating ShipConstructor

It is possible to update existing installations of ShipConstructor whenever a new version is released. By doing this you can receive the newest enhancements without a lengthy reinstall process. If you are using ShipConstructor in a network environment the server and all client workstations should be updated at the same time since doing so ensures that the project databases on the server are in sync with the software on the client machines.

Downloading the Update

To download the files necessary to apply the update, visit the ShipConstructor website and find the download section. You will need the latest version of the update for the product you want to update.

Applying the Update

1. Run the **update executable** on the machine you want to update. The file should be named **SC2012Update###.exe** where **###** refers to the update version you have downloaded. The update installation initializes and the installer appears.
2. Click **Update** to continue.
3. When the update is complete, the installer shows a completed message. Click **Finish** to conclude the update process.
4. You may need to reboot your computer at this time. If the **Installer Information** window appears, click **Yes** to reboot your machine now.

Note: This will complete the updating of the software portion of ShipConstructor on this computer. After you have updated all of the machines on your network, you will need to update the project databases for use with the updated software.

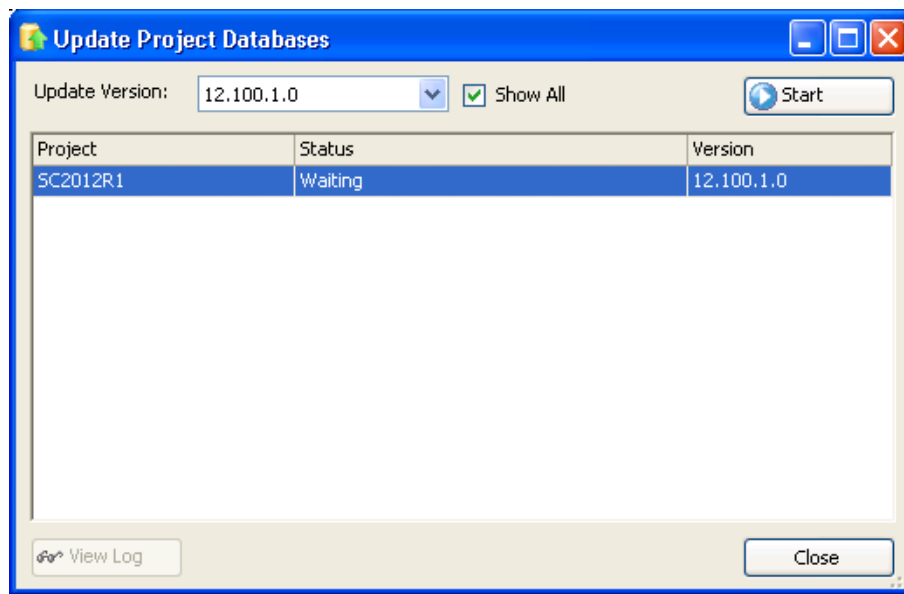
Update a Project Database Version

Each updated software release may include a new version of the ShipConstructor database. Once the update is applied, you can update your ShipConstructor projects to the required database version.

Note: Updating a project database converts a project created with a previous version of ShipConstructor into the newest version. Newer project databases are not backwards compatible with older versions of ShipConstructor.

To update a project database version:

1. In **Administrator**, select the **projects** you want to update.
2. Choose **Project > Update** to open the **Update Project Databases window**.



3. Select the **database version** you want to update the projects to.
4. Click **Start**. ShipConstructor automatically creates a backup of the selected projects in the default backup directory at **<SQLDataRoot>\BACKUP\<database name> <current date&time>.bak**. Once the update has completed, to view a log file of the update, click **View Log**.
5. Click **Close**.

Chapter 5

Appendix

Installing the Navisworks Enabler

If you want to view ShipConstructor drawings through Navisworks Review, Manage or Simulate, the Navisworks Enabler must be installed. If a Navisworks product is installed before installing ShipConstructor 2012, the Navisworks Enabler will be installed by default. However, if you install a Navisworks product after installing ShipConstructor 2012, you will have to modify the install to include the Navisworks Enabler before you can use the associated functionality. To do this:

1. Refer to the section **Modify ShipConstructor Installation (pg. 29)**.
2. At the **custom setup dialog**, select the feature "**Navisworks Enabler**" and select "**This feature will be installed on local hard drive**".
3. Click **Next**, and then click **Install**.

Technical Support

ShipConstructor Software Inc. offers technical support as part of Subscription.

Office hours: 7:00 am - 5:00 pm Pacific Time

Toll-free: 1-888-210-7420

Phone: 1-250-479-3638

Fax: 1-250-479-0868

E-mail: support@ShipConstructor.com

Web: www.ShipConstructor.com