
ShipConstructor ***Installation Guide***

By Albacore Research Ltd.

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38. Language. It is the express will of the parties that this Agreement and related documents have been prepared in English. C'est la volonté expresse des parties que la présente Convention ainsi que les documents qui s'y rattachent soient rédigés en anglais.

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Introduction

Overview

ShipConstructor2002 is integrated with Microsoft SQL Server 2000, making it much powerful enough for larger projects. ShipConstructor2002 also contains many new features not found in previous versions of ShipConstructor. ShipConstructor2002 provides:

- Integrated pipe hangers.
- Profile nesting.
- More profile extrusion types than ever before. (Channel, Bulb flat, Structural Pipe, Rectangular Tubing and many more.)
- Material resource allocation and management at the project level.
- An improved automatic nesting engine.

Database Issues with ShipConstructor2002

ShipConstructor2002 uses MS SQL Server as the central database engine. The installation allows you to install a free licensed version of SQL Server called the SQL Server Desktop Engine if you do not already have SQL Server. The Desktop Engine is optimized for up to five simultaneous users. Manager provides all required functions to backup, restore, and manage your project databases. We recommend that you purchase a full SQL Server license if you work on projects larger than 8000 parts or have several projects on the go simultaneously.

Installation

Hardware and Software Requirements

ShipConstructor is designed to run on PC computers with the following operating systems:

- Windows NT4 SP5 or higher
- Windows 2000
- Windows XP

Your computer needs the following configuration:

ShipConstructor 2002 Requirements

	NC-Pyros	ShipCAM	Structure, Outfitting, Piping Client / Server
Disk Space (MB)	5	25	300 / 1024+
RAM (MB)	32	Min 32, Rec. 128	Min. 128, Rec. 512
CPU	Rec. Pentium	Rec. PII 266	Rec. PII 500 / PIII 800
Software	None	None	AutoCAD2000, 2000i or 2002, Rec. MS SQL Server2000

IMPORTANT: A hardware lock is required to run ShipConstructor products. Without the hardware lock all products will run in DEMO MODE (will only run with demo project).

Note: While ShipConstructor may run on Windows 98 SE / ME, Albacore Research Ltd. does not recommend the use of these operating systems. Technical support will not be provided for installations on these platforms.

What is on this CD-ROM

This CD-ROM features the latest products from ARL along with several accompanying products that enhance the functionality of ShipConstructor or allow users to view the included documentation.

- | | |
|--|--|
| ShipConstructor2002 | - The full suite including all ShipConstructor modules, NC-Pyros and ShipCAM. |
| Adobe Acrobat Reader 5.05 | - Required to read and print the online manuals. |
| MS SQL Server 2000 Desktop Engine | - Required for a server or standalone installation of ShipConstructor if you do not already have an existing installation of SQL Server. |

Running the ShipConstructor Installer

ShipConstructor's Installer allows you to install all the necessary ShipConstructor components, documentation and any required support software. To run the installer start **setup.exe** located on the CD-ROM.

Warning: After having installed the desired ShipConstructor components it may be necessary to reboot the computer to complete the installation. The rebooting process may take a couple minutes longer than usual, as a number of components must be configured before the install will be complete.

Software dependencies

SQL Server - All 2002 products require at least a single machine running SQL Server; this does not have to be the "server" in your company's network. A free licensed version of SQL Server (Microsoft Desktop Engine) is packaged with ShipConstructor2002. It is recommended that all of the project databases be kept on the same project server to make administration tasks easier. For larger projects it may be in your best interest to purchase a full version of SQL Server, as it is vastly superior in terms of performance and scalability.

AutoCAD - ShipConstructor2002 runs inside of AutoCAD2000, 2000i or 2002. ShipCAM and NC-Pyros are independent of the version of your CAD system. They will work with any CAD system that can read and write DXF files.

Installing the demo

ShipCAM - When installing ShipCAM, what you install depends on the level of integration with the other ShipConstructor modules you desire to achieve. If you include ShipConstructor and the Project Templates with ShipCAM you will be able to define and integrate the plate stocks in the project databases with the plates created in the ShipCAM modules.

NC-Pyros - When installing NC-Pyros, what you install depends on the level of integration with the other ShipConstructor modules you desire to achieve.

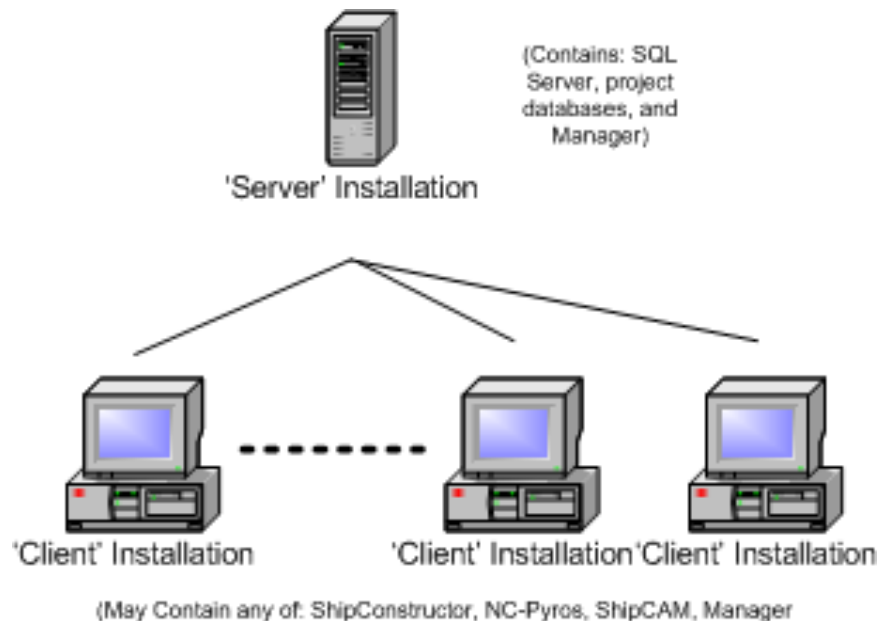
Structure, Outfit, Pipe - You require AutoCAD2000, 2000i, or 2002. The SQL Server Desktop Engine version is more than adequate to run the demos should you not own a copy of SQL Server2000.

Recommended 2002 Network Installations

All ShipConstructor2002 network installations will follow basic client-server architecture. One machine acts as a project server and houses the data for each of the current projects. The workstations on the network access the projects on the server directly. There are two main ways to install ShipConstructor2002 in a network environment.

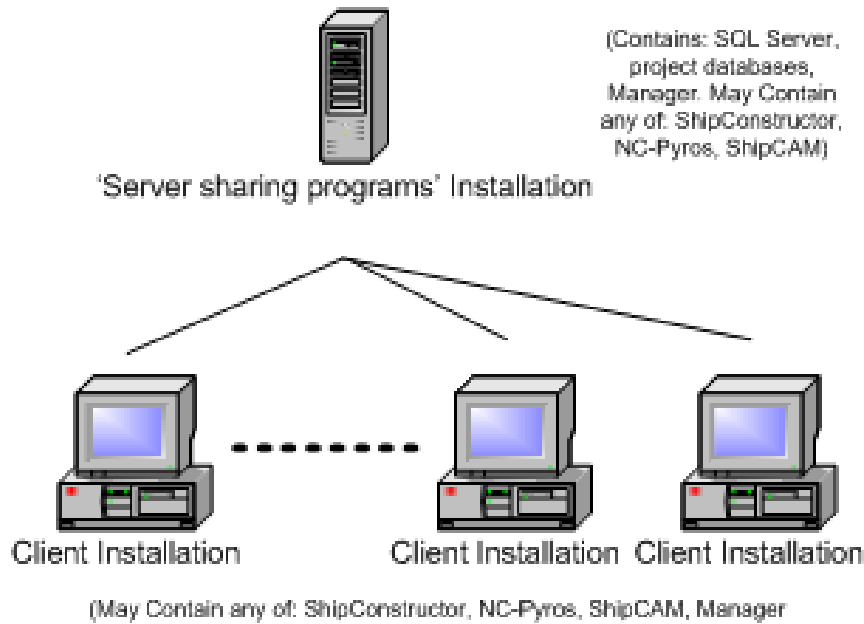
Setup Method 1

The first method of installation involves installing the server using the “Server” installation type for the project server and the “Client” installation type for each of the workstations. This will not install any of the application software (such as ShipConstructor, NC-Pyros or ShipCAM) on the server. The client machines will have a separate installation of each application. This is perhaps the most flexible installation type as changes to the server such as location and network drive mappings will not affect the clients. It also allows the project server to be replaced without any work necessary on the client machines and can make it easier to work with multiple project servers. It can be more difficult to maintain than the next option due to the fact that an update to ShipConstructor must be performed on each of the clients. The diagram below outlines the structure of the first option.



Setup Method 2

The second method of installation involves installing the server using the “Server sharing programs” installation type for the project server and the “Client using Server program location” installation type for each of the workstations. This will not install any of the application software (such as ShipConstructor, NC-Pyros or ShipCAM) on the workstations. The server machine will have a complete installation of each application. The server’s program files will be used by each of the client computers. This setup type is easier to update than the first option because updates to ShipConstructor only have to be performed on a single machine. However if anything is changed on the server machine and the clients are no longer able to see the location in which the program files have been installed, they will no longer be able to run ShipConstructor. This installation type is also less flexible when it comes to changing project servers or adding multiple project servers. The diagram below outlines the structure of the second option.



Installing ShipConstructor2002 Components

Overview

ShipConstructor2002 Installation

 Install ShipConstructor2002  Install Third Party Software  Check for Updates  Electronic Manuals  View Presentations	 Project Profiles  Installation Help  Contact ARL  Exit Installation
---	---



Structure - Pipe - Outfit - Nest - ProfileNest - AutoNest - Manager - FlyThrough - NC-Pyros - ShipCAM

Install ShipConstructor2002 – Starts the installer for ShipConstructor2002.

Install Third Party Software – Changes to a page from which you can install several support applications for use with ShipConstructor.

Check for Updates – Takes you to the ShipConstructor website where you can download any available updates for the software.

Electronic Manuals – Changes to a page from which you can view the manuals for ShipConstructor2002 in PDF format.

Installation Help – Opens the installation manual in Windows help format.

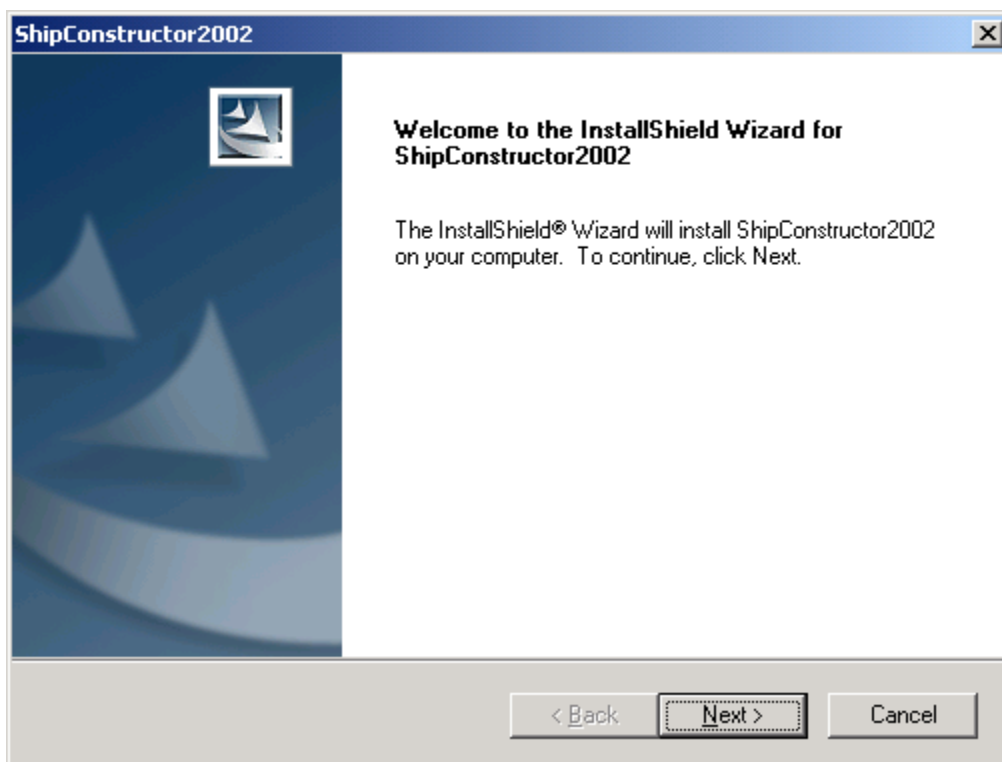
Contact ARL – Changes to a page listing contact information for Albacore Research Ltd.

Exit Installation – Closes the ShipConstructor installation.

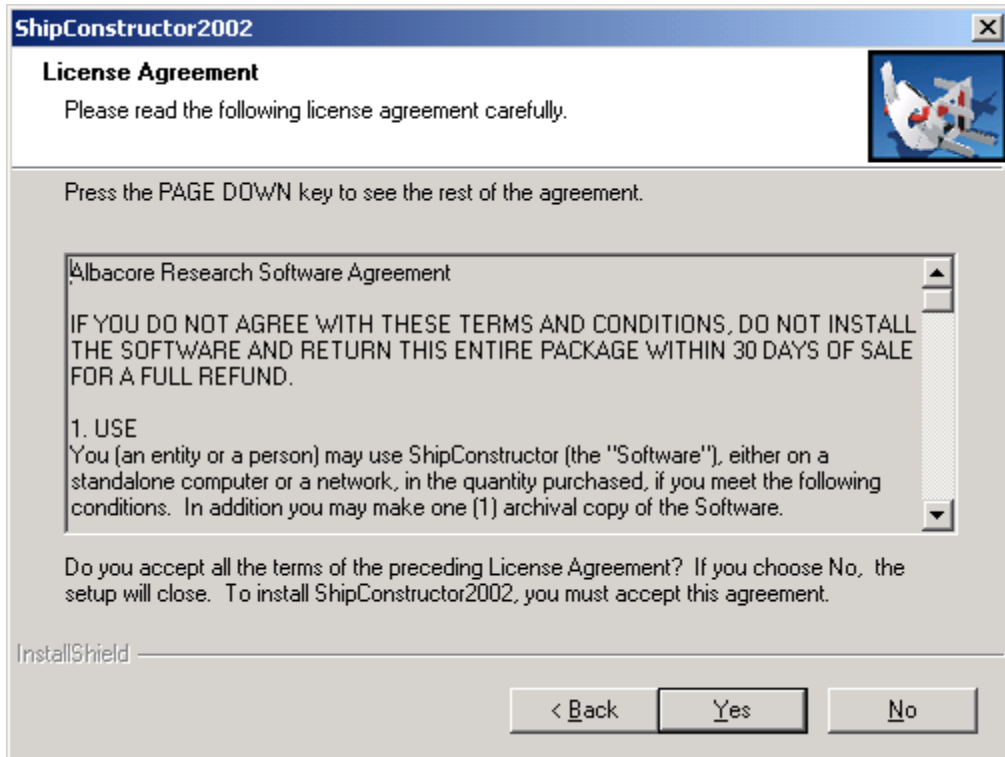
Install ShipConstructor2002

Click on **Install ShipConstructor2002** to begin the **ShipConstructor2002** installation.

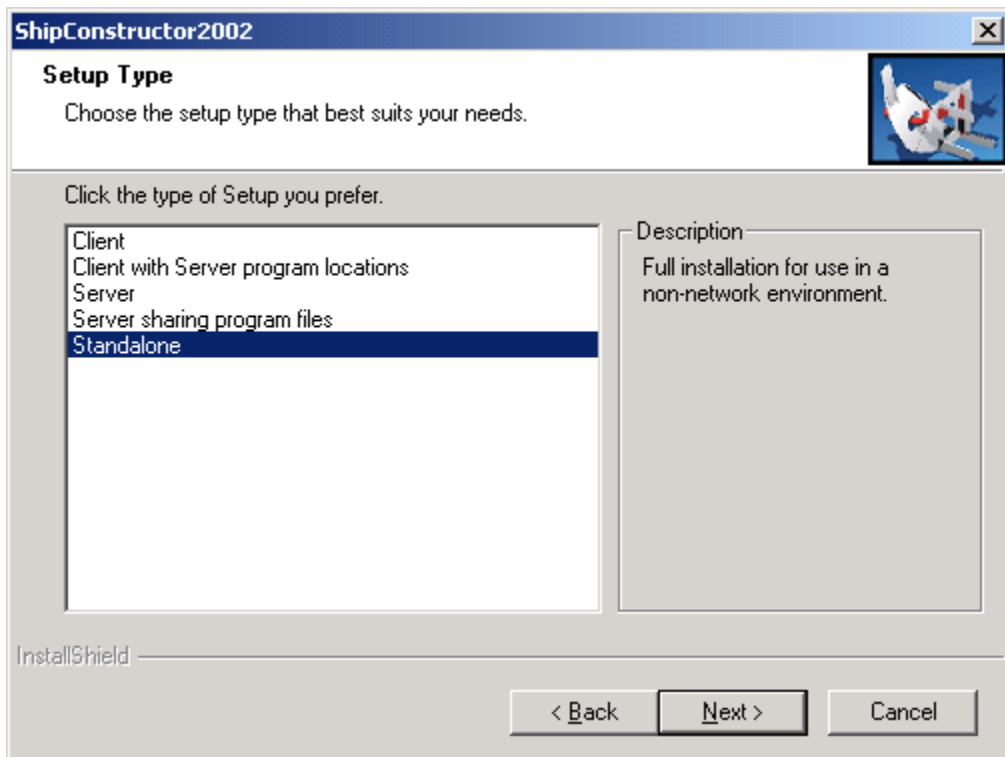
1. The following window will appear. To continue with the installation click on **Next**. To cancel the installation at any time click on **Cancel**.



2. The next window that appears displays the License Agreement. Please read the agreement carefully before clicking on **Next** to continue.

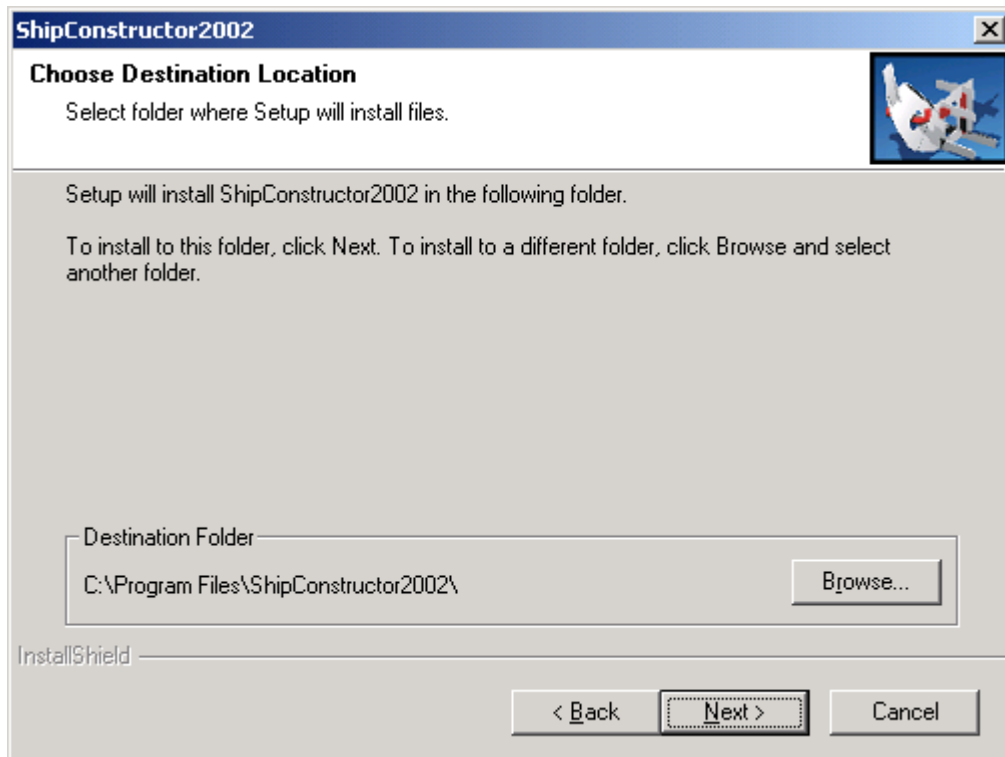


3. The next screen allows you to select from several options.



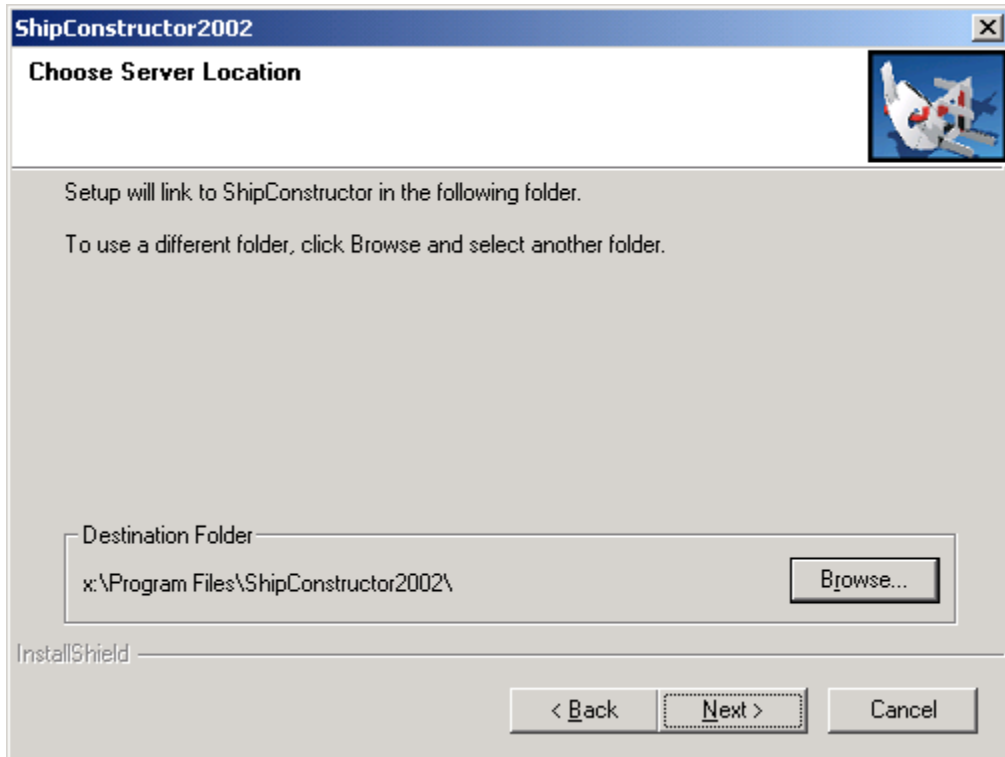
- **Client** - Installs the necessary components on the current workstation for **ShipConstructor2002** to be run from a server. This type of installation can only be used after **ShipConstructor2002** is installed on the server.

- **Client with Server program locations** - Similar to the **Client** installation except the main program file components exist on a machine that has been installed using the **Server sharing programs** option below.
 - **Server** - Creates a project server including Manager, the demo project, and the project templates. This installation requires SQL Server to be installed locally.
 - **Server sharing program files** - Installs the entire **ShipConstructor2002** suite, the demo project, and the project templates. Use this type of installation if you intend to run **ShipConstructor2002** in a network environment and you do not wish the clients to have separate versions of the major program files. This installation requires SQL Server to be installed locally.
 - **Standalone** - Installs the entire **ShipConstructor2002** suite, the demo project and the project templates. Use this type of installation if you intend to run **ShipConstructor2002** with a single computer.
4. Choose one of the options, and then click **Next** to continue.
 5. Select the location for the project files in this installation

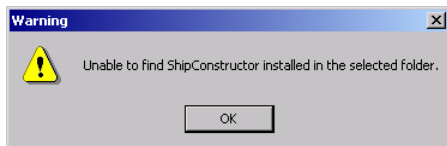


- OR -

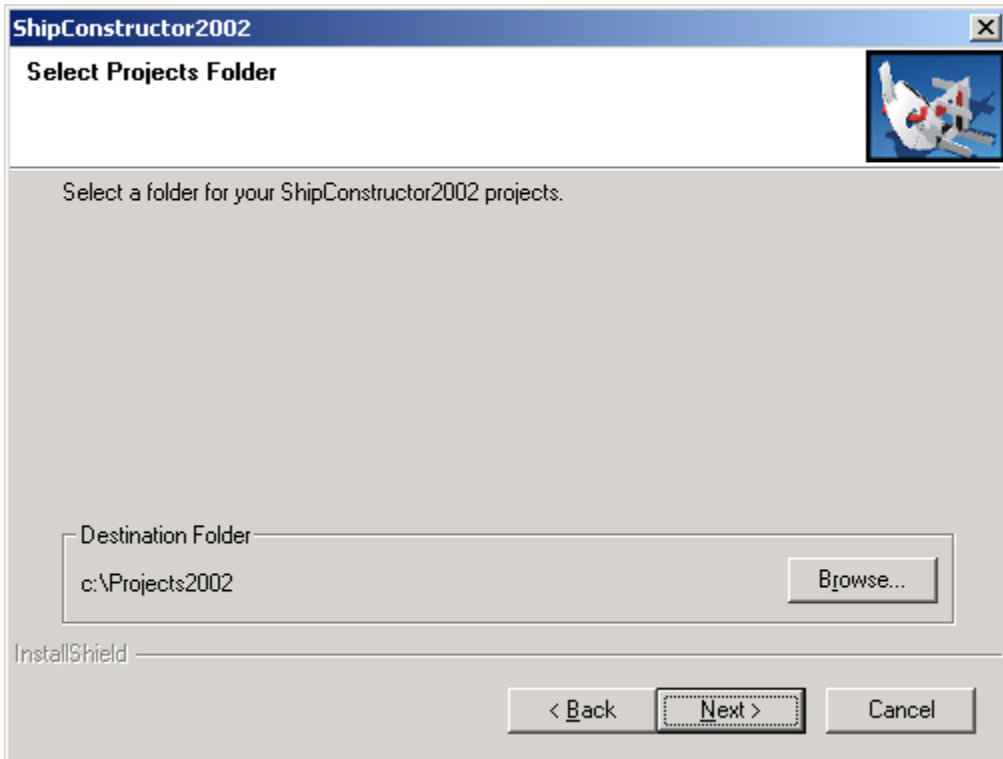
If you are installing the **Client using server program location** version of **ShipConstructor2002** the install program will ask you to locate the ShipConstructor2002 install folder on the server. Once you have located the folder click on **Next** to continue.



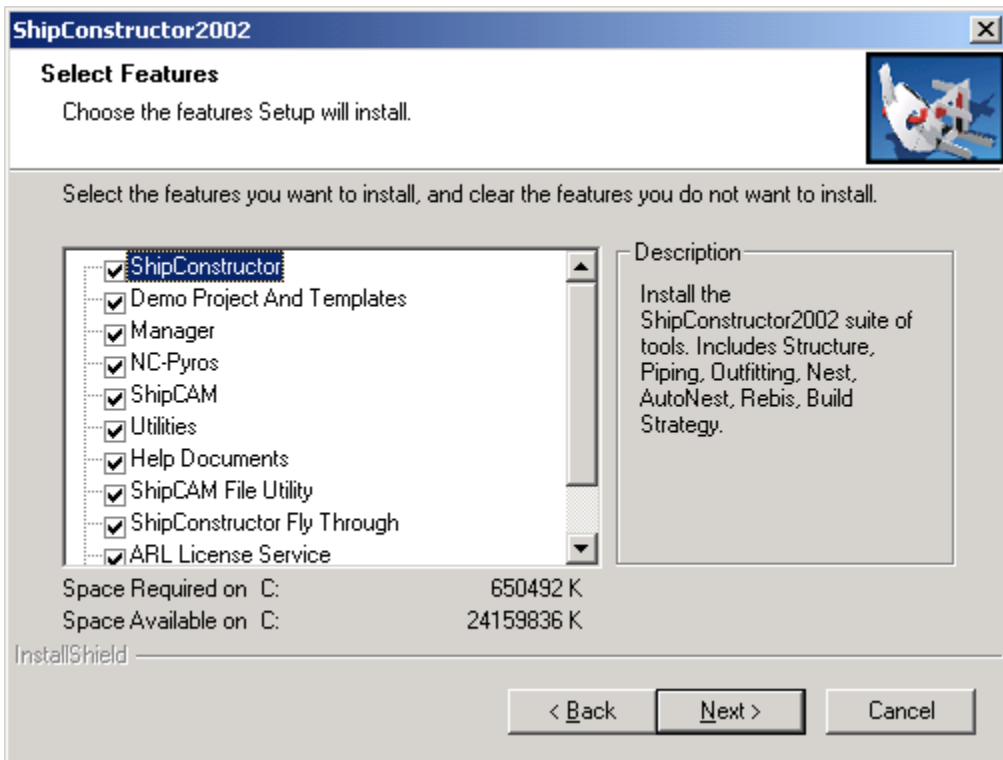
If the following message dialog appears then the install program was unable to find a valid installation of ShipConstructor in the selected folder. This may be because the wrong folder was selected, or the ShipConstructor installed on the server was incomplete, or the internal folders were renamed. In the last two cases the server version must be reinstalled.



- Next, the install program will ask you to choose a location in which to install the demo and template projects. Once you have located the folder click on **Next** to continue.



7. Select the components you wish to install as outlined below. In general you won't want to change the default options that have been determined by the installation type you selected earlier.



The following is a breakdown of the features available for installation:

ShipConstructor – Installs the main ShipConstructor program files.

Demo Project and Templates – Installs the ShipConstructor demo project and the Imperial and Metric project templates. This option should be selected with a standalone or either server installation type.

Manager – Installs Manager2002.

NC-Pyros – Installs the main program files for NC-Pyros.

ShipCAM – Installs the main program files for ShipCAM.

Utilities – Installs the ShipConstructor utility programs including the LockView and WinLock programs.

Help Documents – Installs electronic copies of the ShipConstructor help manuals.

ShipCAM File Utility - Installs the a utility that allows the importing of ShipCAM files into AutoCAD.

ShipConstructor Fly Through – Installs the FlyThrough module of ShipConstructor. This feature requires NavisWorks Publisher 2.2. There is a demonstration version of NavisWorks on the ShipConstructor installation CD.

ARL License Service – This feature is required to run either a local or network lock on this computer. See the ARL License Service section of the Manager manual for information regarding the configuration of this service once it has been installed.

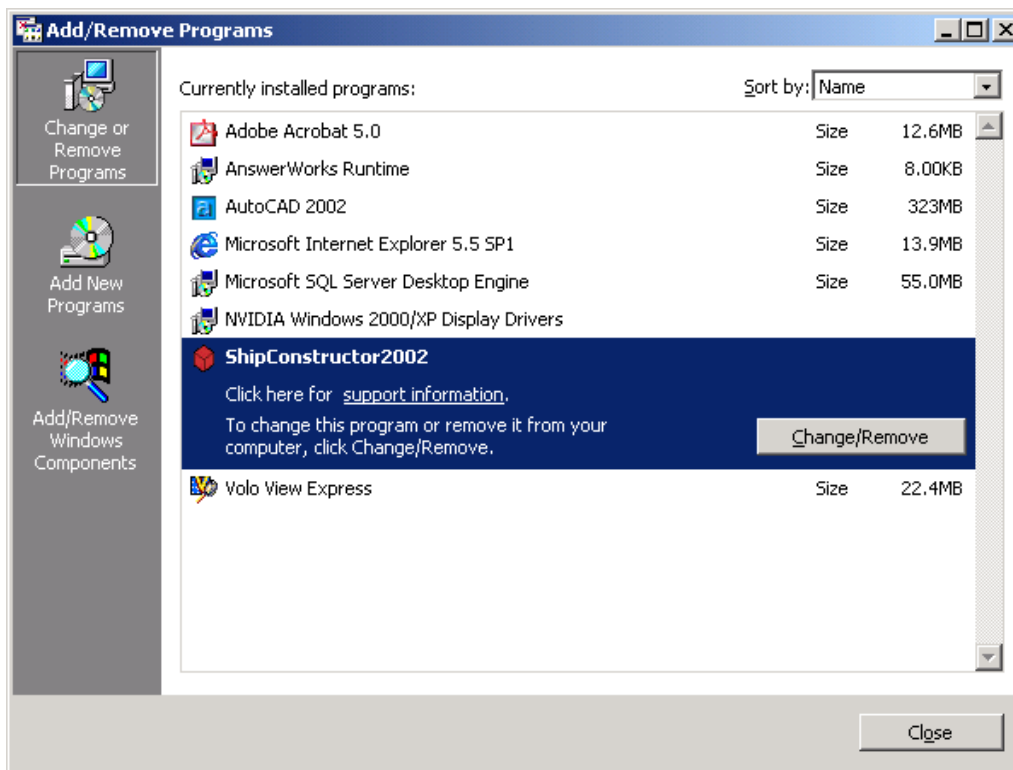
ARL License Manager – Installs a utility that allows you to monitor the licenses on a local or network lock. Users can use this utility to determine who has a particular license checked out when they require it. Users who have the required password can revoke licenses in use by a user. The Manager manual outlines the use of the License Manager in more detail.

8. When you have finished selecting your options click on **Next**.
9. The install process will continue.

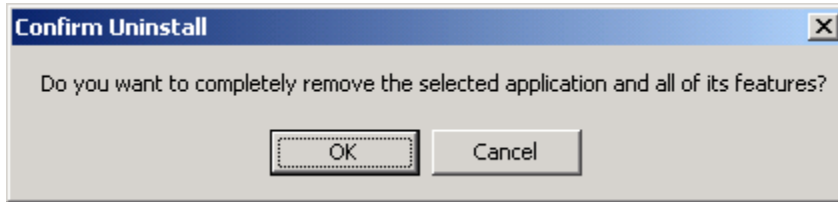
Removing ShipConstructor2002

To remove ShipConstructor2002:

1. Open the Control Panel.
2. Open the “Add/Remove Programs” portion of the Control Panel.
3. Find ShipConstructor2002 in the list of installed applications.

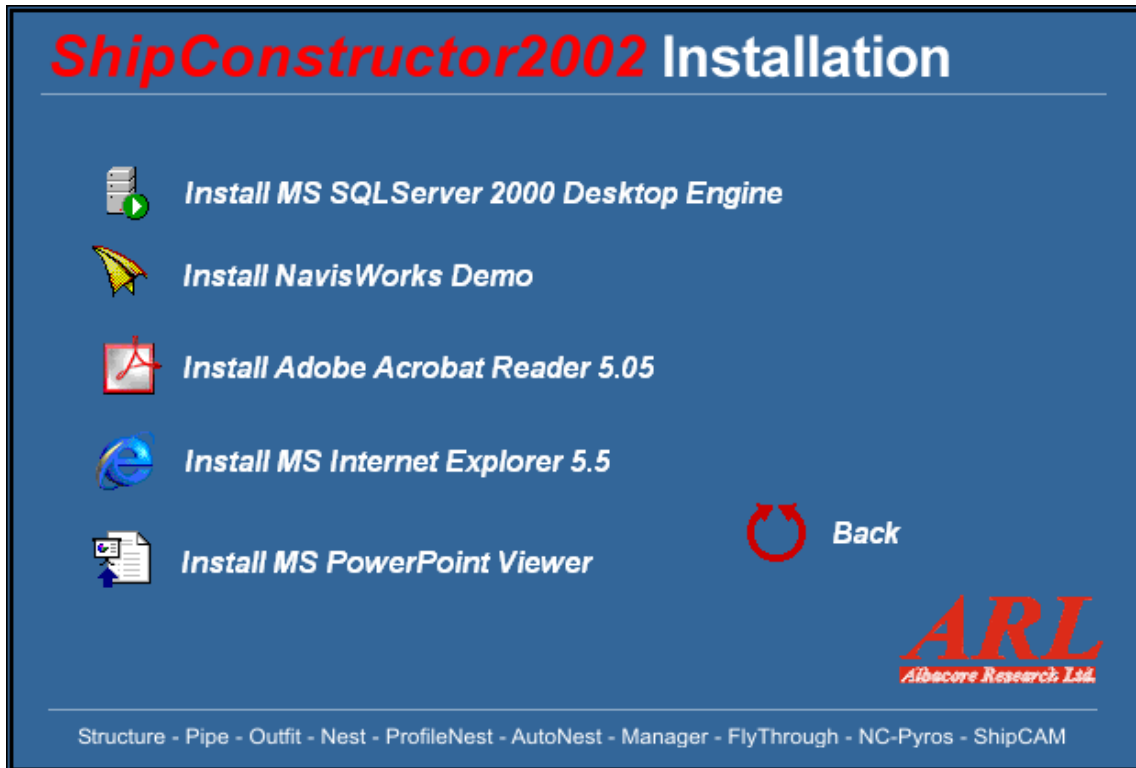


- Click the Change/Remove button.



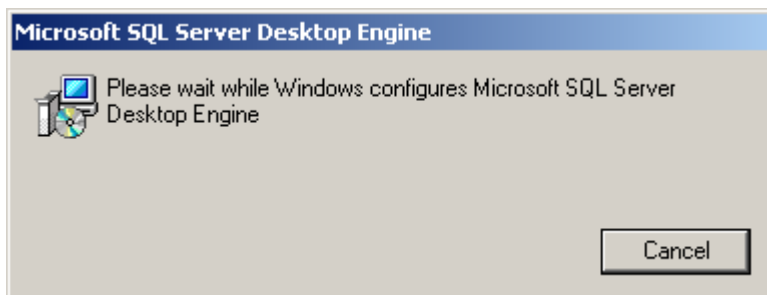
- Click OK to remove ShipConstructor2002. Click Cancel to cancel the removal.

Install Third Party Software



Install MS SQLServer 2000 Desktop Engine

Select this option to install the Desktop Engine version of SQL Server 2000. This option is required before performing a Standalone or Server installation of ShipConstructor.

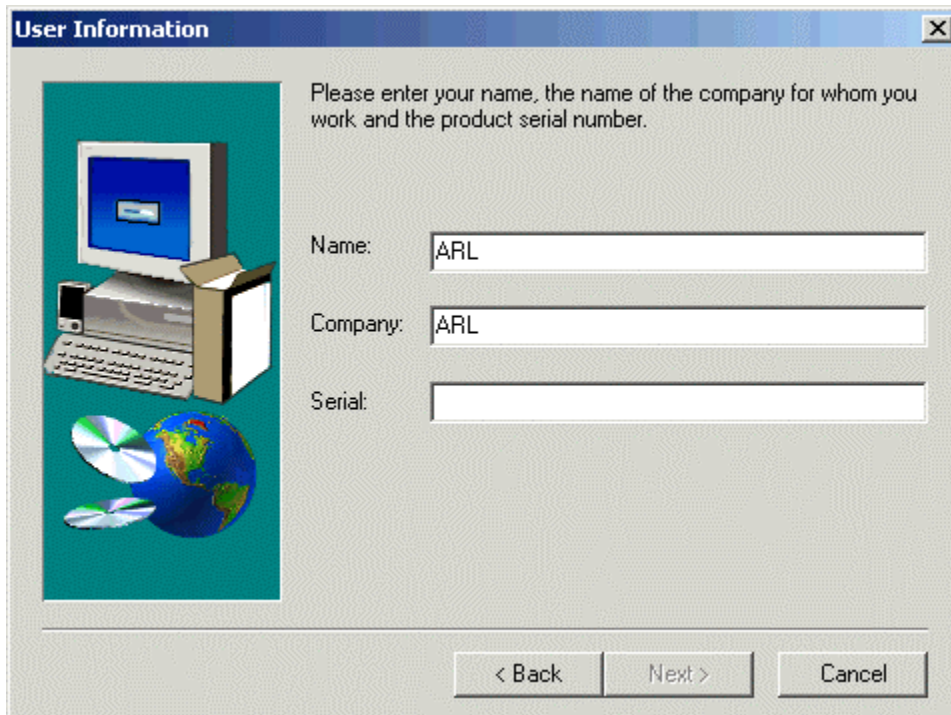


If the progress indicator for the Desktop Engine installation begins to move backwards (to the left) during the installation, you may be missing certain Windows components that are required to install the Desktop Engine. On machines running Windows NT4.0, Service Pack 6 is required to successfully install the SQL Server Desktop Engine.

On all computers the File and Printer Sharing for Microsoft Networks component is required to install the Desktop Engine.

Install NavisWorks Demo

Installing this demo version of NavisWorks will allow you to demo the FlyThrough portion of ShipConstructor. To install the demo you will need the NavisWorks serial number that accompanied the ShipConstructor CD-ROM. This trial serial number will have to be registered online at www.navisworks.com before it becomes active.



User Information

Please enter your name, the name of the company for whom you work and the product serial number.

Name:

Company:

Serial:

< Back Next > Cancel

Install Adobe Acrobat Reader 5.05

Acrobat Reader, or any other application capable of reading pdf files, is required to view the electronic documentation accompanying the ShipConstructor CD-ROM.

Install MS Internet Explorer 5.5

Certain portions of ShipConstructor require at least Internet Explorer 5.0 to install and operate properly. The ShipConstructor2002 CD-ROM includes Internet Explorer 5.5 for your convenience.

Install MS PowerPoint Viewer

The presentations available on this installation CD are Microsoft PowerPoint presentations. The ShipConstructor2002 CD-ROM includes a Microsoft PowerPoint viewer for your convenience.

Check for Updates

To check for updates to ShipConstructor2002 this link will take you to the appropriate page on the ShipConstructor website. The “Patching and Upgrading” chapter in this manual explains the process of updating an existing ShipConstructor2002 installation.

Electronic Manuals



The screenshot shows a blue window titled "ShipConstructor2002 Installation". It contains a list of manual topics, each with a document icon: "Structure and Nesting", "Profile Nesting", "Piping and Outfitting", "Tutorial", "Manager", "NC-Pyros", and "ShipCAM". A red circular arrow icon labeled "Back" is positioned to the right of the "ShipCAM" item. In the bottom right corner, the "ARL" logo is displayed in red, with "Albacore Research Ltd." written below it in a smaller font. At the bottom of the window, a horizontal line separates a list of modules: "Structure - Pipe - Outfit - Nest - ProfileNest - AutoNest - Manager - FlyThrough - NC-Pyros - ShipCAM".

Select the appropriate item to view the manual for one of the ShipConstructor modules listed. Click the back button to return to the main installation interface.

Installation Help

This will open the Installation Manual in a standard Windows help file format. From here you can search the installation guide for information pertaining to the problem you are having.

Contact ARL

ShipConstructor2002 Installation



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Victoria, BC
Canada
V8X 4A3

Tel: (250) 479-3638
Toll Free: 1-888-210-7420
Fax: (250) 470-0868
INFO: info@shipconstructor.com
SALES: sales@shipconstructor.com
SUPPORT: support@shipconstructor.com
WEB: www.shipconstructor.com

 **Back**



Structure - Pipe - Outfit - Nest - ProfileNest - AutoNest - Manager - FlyThrough - NC-Pyros - ShipCAM

Contact information for Albacore Research Ltd. is available from this page. Clicking one of the e-mail addresses listed will open a new mail addressed to that recipient in your default e-mail client. Click the back button to return to the main installation page.

View Presentations



English Presentation

Starts the English version of the ShipConstructor PowerPoint presentation.

Chinese Presentation

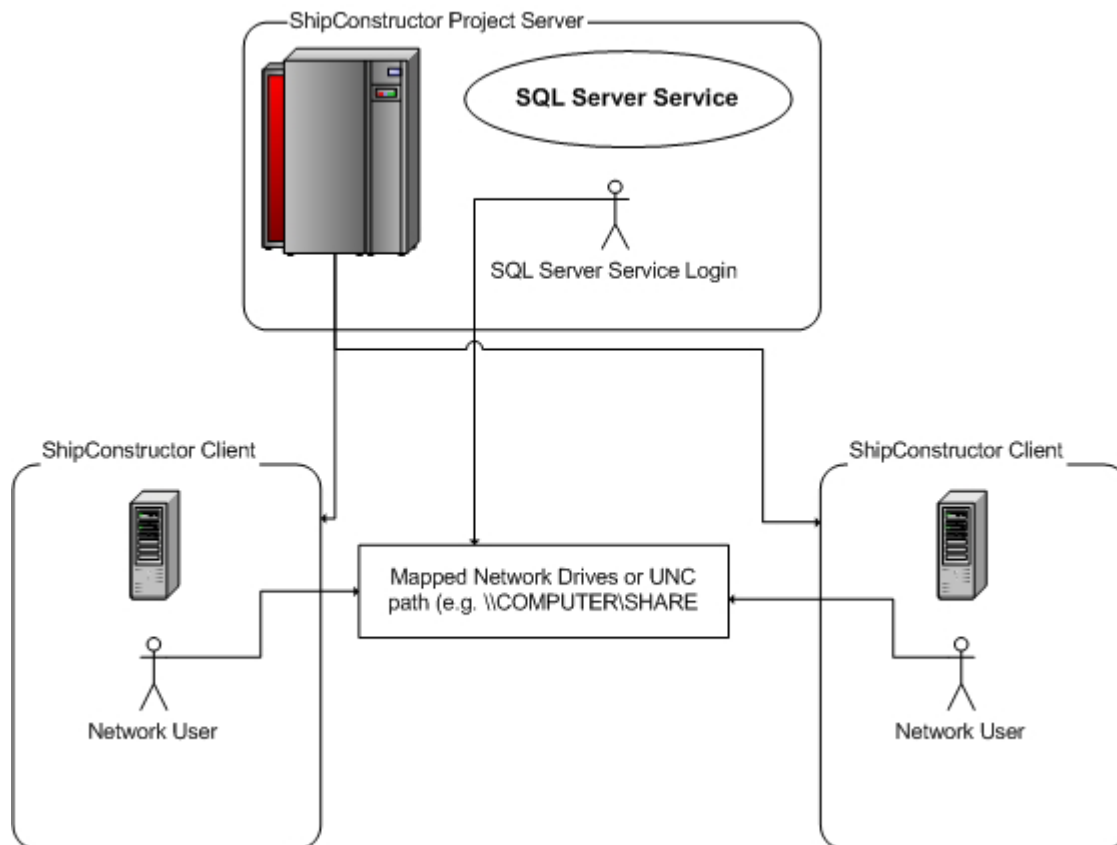
Starts the Chinese version of the ShipConstructor PowerPoint presentation.

Exit Installation

This allows you to exit the install program.

Configuring SQL Server

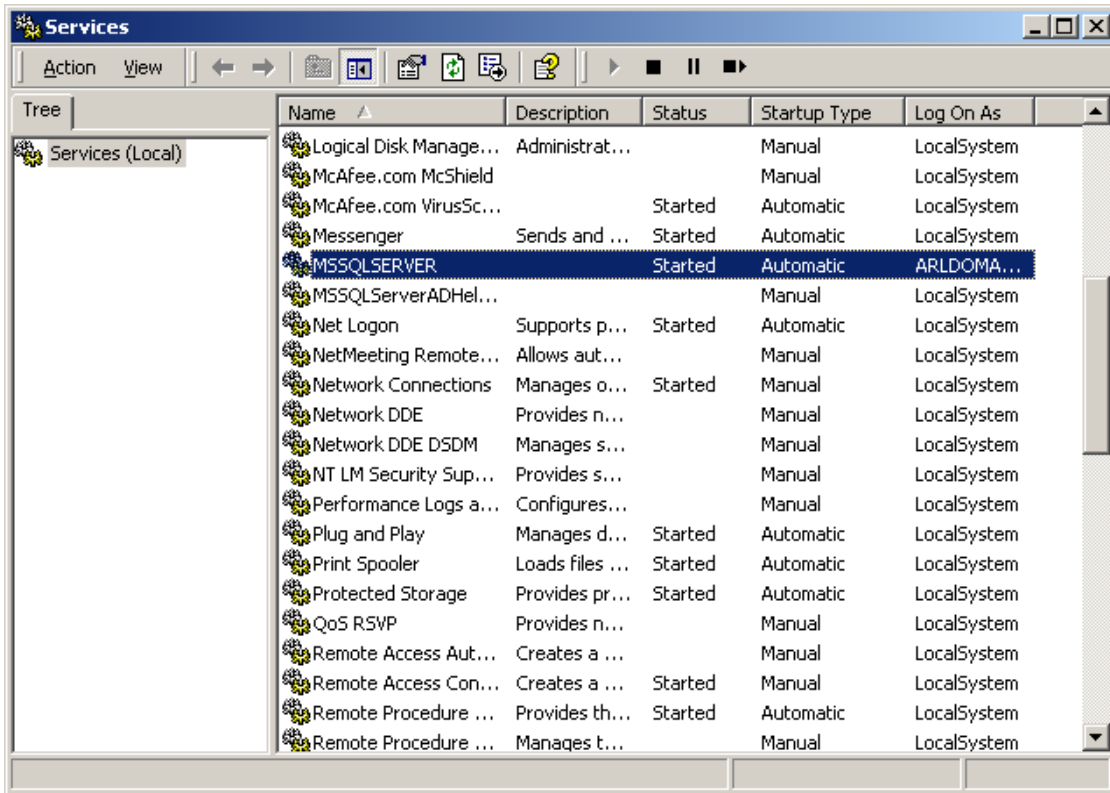
Enabling client workstations running Manager to be able to perform project database updates and restores on a remote SQL Server can require additional configuration of the SQL Server itself. The reason for this stems from the fact that the actual restore/update operations are performed by the SQL Server. The backup file you select for these operations must be visible AND accessible (via the same path) from both the server (the computer running SQL Server) and client (the computer running Manager) machines. This means that accessing a backup file through the primary drive of the computer running Manager, usually C:, is not valid unless the computer running Manager is the same machine that is running SQL Server. Performing these operations from the server, with the backup file placed on a local drive of the server is the easiest way to ensure a successful operation.



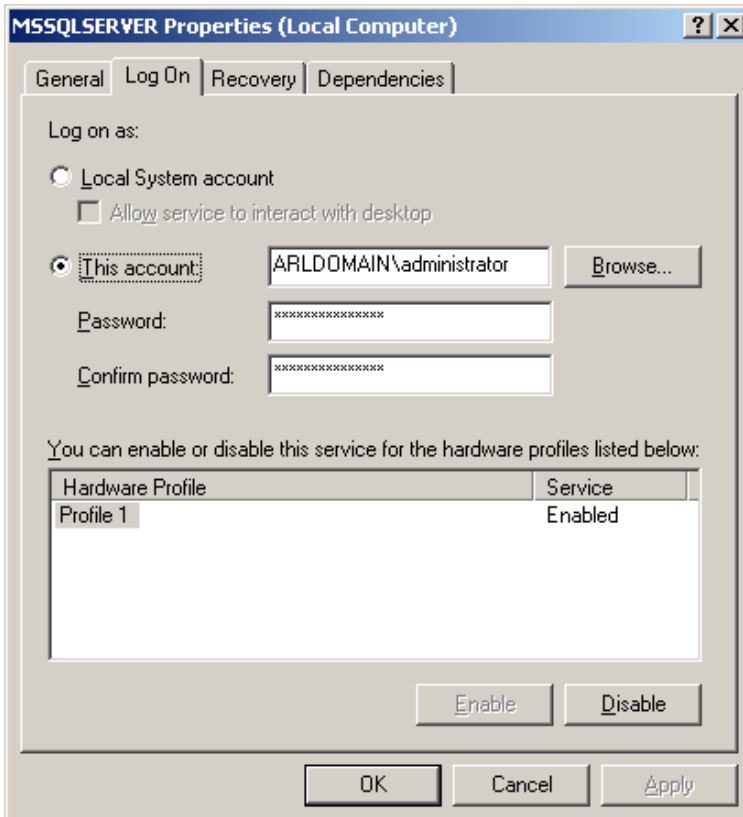
Updating or Restoring from a Client

There are a few conditions that need to be met to allow for a successful project database update/restore from a ShipConstructor client computer. The conditions are as follows:

1. The backup file must be placed on a mapped network drive that is visible to the user logged in to the computer running Manager. This user must also have the required network privileges to read from the folder in which the backup file has been placed.
2. The backup file must be placed on a mapped network drive that is visible to the user who the SQL Server service on the server is started as. To check the identity of this user:
 - I. Open the Control Panel on the server computer.
 - II. Open the Administrative Tools section of the Control Panel.
 - III. Open the Services portion of the Administrative Tools section.



- IV. Right click the MSSQLSERVER entry in the list of services and select the Properties entry from the context sensitive menu that appears.



- V. The Log On tab provides detailed information about the logon that this service is started as. You will probably want to change this logon to be a network/domain administrator. In this way you ensure that the user should have full permission to access all network resources.
 - VI. Stop and then restart the MSSQLSERVER service.
3. The user you have identified in step 2 must have the mapped network drive on which the backup file has been placed explicitly mapped on the server computer. To map this drive for the login:
 - I. Log on to the server computer as the user identified in Step 2.
 - II. Map the network drive using the same drive letter as the client machines that will be performing the update/restore operations.
 - III. Stop and then restart the MSSQLSERVER service.

Installing the Hardware Lock *(licensed users only)*

A hardware lock is shipped with the licensed software to operate the program. Without the hardware lock the program will run in demo mode.

The hardware lock plugs into the parallel port of your computer. The lock is a pass-through device, which allows you to keep other devices connected to the parallel port (printers, etc.). Attach the end of the lock labeled **↑COMPUTER↑** to a parallel port. Tighten the screws to connect the lock securely to the port.

If you have multiple locks connected to the same parallel port, make sure this lock is the last lock in the chain (farthest from your computer).

Turn ON all devices that are connected to the lock. A device connected to the parallel port that is switched OFF prevents the proper operation of the hardware lock.

Information on MS Data Access Components (MDAC)

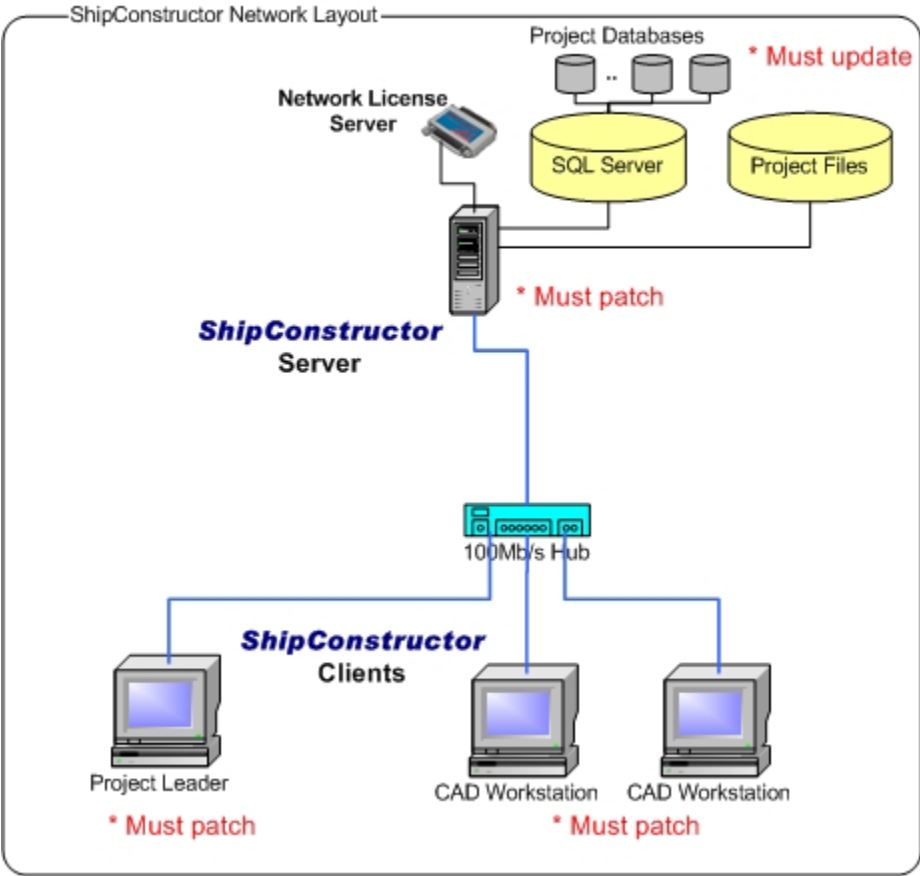
ShipConstructor requires specific support components from Microsoft to run. The installation program automatically detects if up-to-date components are already on your system. The correct ones will be automatically installed if they are not present.

If you are running applications that use the earlier versions of these components, problems may occur due to the upgraded drivers. If problems occur, contact the vendor of the incompatible software to obtain versions compatible with the newest version of MDAC.

Patching and Upgrading

Overview

With the release of ShipConstructor2001 we introduced the ability to patch existing installations of ShipConstructor when we release a new version. In this manner, our users receive the newest enhancements and bug fixes without a lengthy reinstall process. If you are using ShipConstructor in a network environment, all client workstations and the server should be patched at the same time. This will ensure that the project databases on the server are in sync with the software on the client machines. The following diagram shows the processes that should be applied on each portion of the ShipConstructor system.



Downloading the Patch

To download the files necessary to apply the patch visit the ShipConstructor download page at http://www.shipconstructor.com/sc_downloads.html. You will need the latest version of the patch for the product you wish to update. If the version of your project databases is not equal to the version available for download from this page, you will also need to download the backup file to update your project databases.

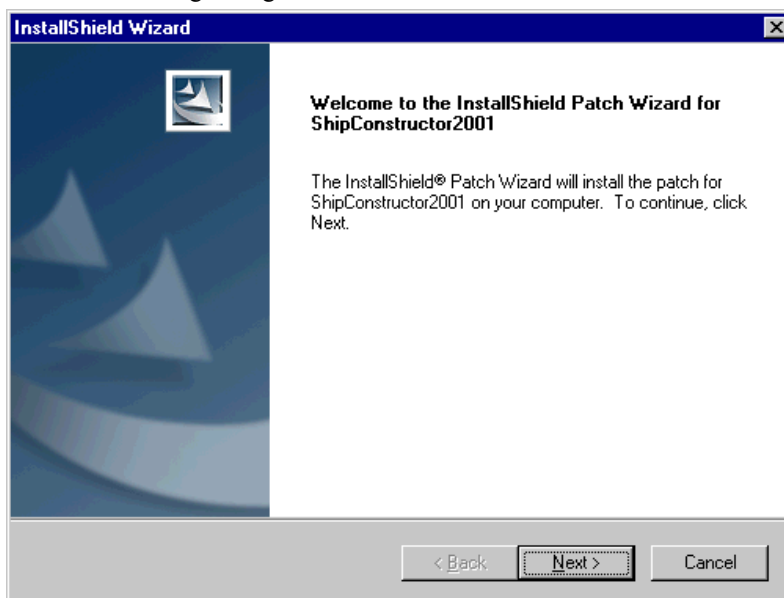
Applying the Patch

Note: The original installation media must be available in the same location as it was during the installation procedure.

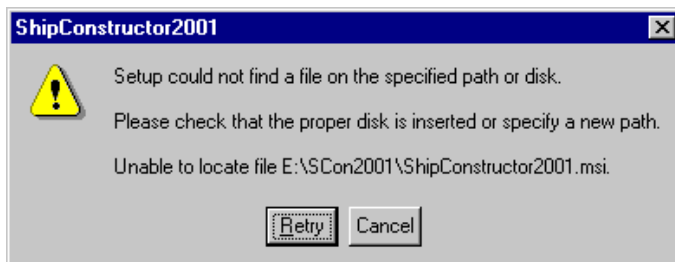
Note: The patch can be applied to any existing installation of ShipConstructor that is at least v1.10. There is no need to install any previous patches before installing the latest patch.

To install the patch:

1. Obtain the CD that was used to install the computer you wish to patch.
2. Run the patch executable on the machine you would like to patch. The file should be named Updatev###.exe where ### refers to the patch version you have downloaded. The patch installation will initialize and you will be prompted with the following dialog.

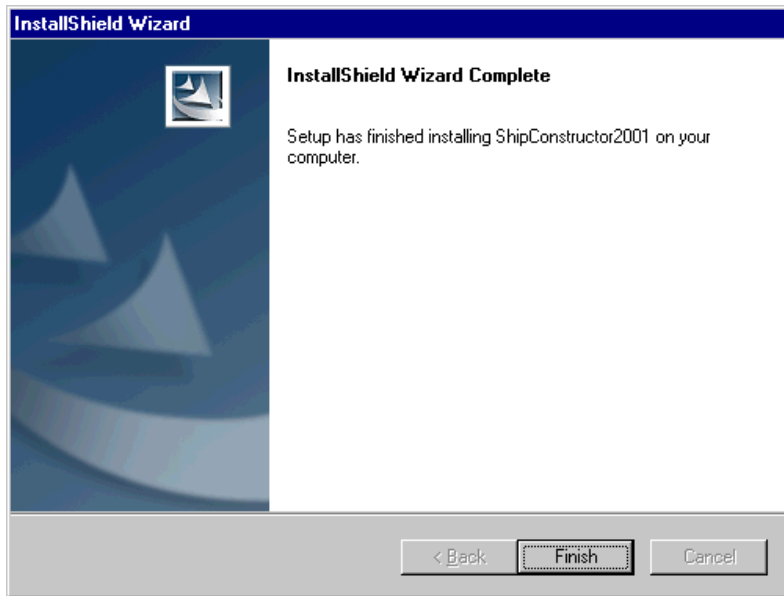


3. Click the Next button to continue. If you do not have the original installation CD available you will be prompted with the error message shown.



4. After making the original CD available to the patch program click Retry to continue the patch process.

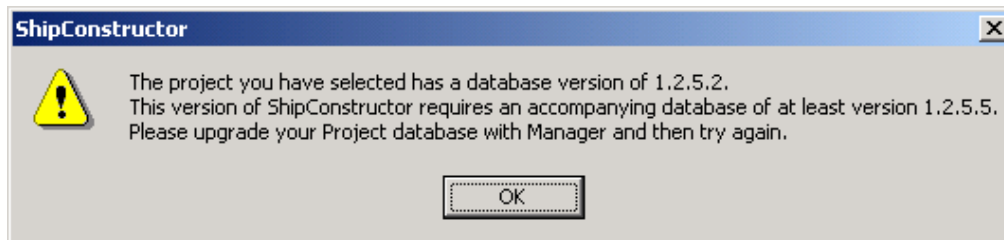
5. When the patch has completed successfully, click the Finish button to conclude the patch process



6. This will complete the updating of the software portion of ShipConstructor on this computer. After you have patched all of the machines on your network you may still need to update the project databases for use with the new software.

Updating the Project Databases

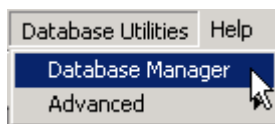
When ARL creates a new patch for ShipConstructor it is often the case that the structure of the database behind ShipConstructor has changed. ShipConstructor will check the version of the database you are attempting to register with and will not allow you to register if you do not have the required version.



1. To update your project databases, you must first place the backup file that you have downloaded in a location that is accessible from the computer running SQL Server. Once you have done so, run Manager on any computer that has already had the patch applied. You may connect to any project at this point, as the Database Manager portion of Manager will allow you to perform maintenance on any project database.

Note: The Update process will create a backup that can be restored from if errors are encountered during the update process.

2. To open the Database Manager select the Database Manager option from the Database Utilities menu.



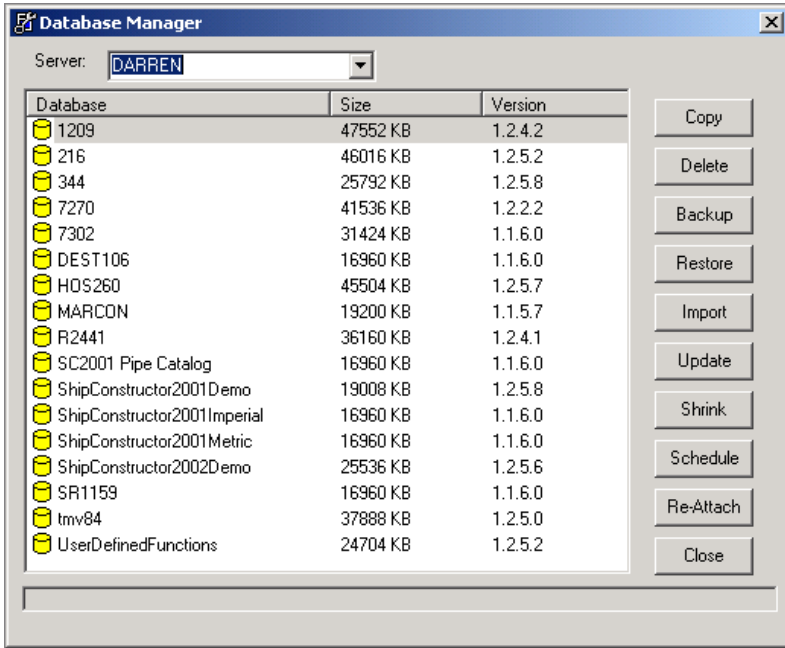
Optionally you can use the Database Manager



button on the toolbar.

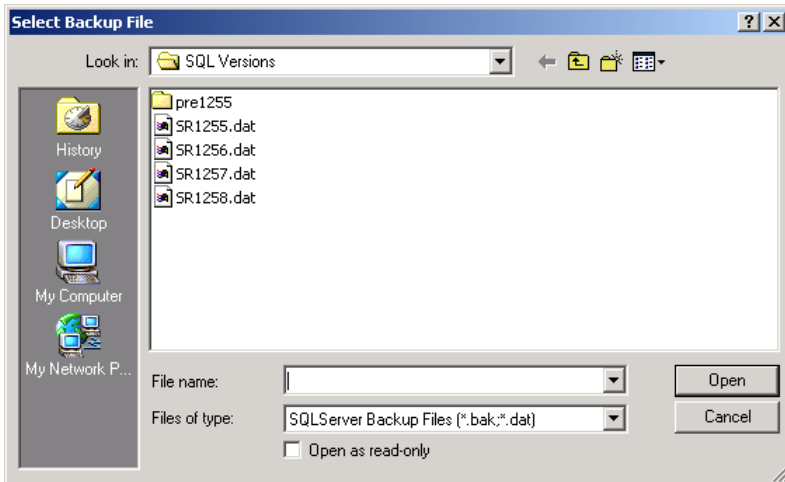
3. The Database Manager interface will open. To update a project database, select the Server the

project is located on from the server drop-down at the top of the Database Manager interface. This will populate the database list with the ShipConstructor projects on the server.

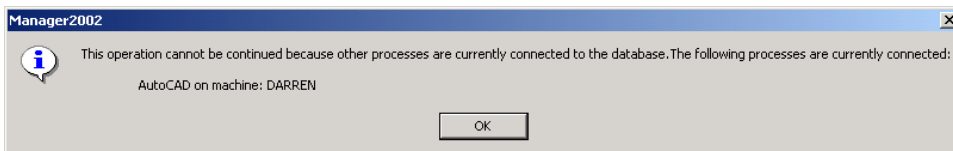


4. Select the project you wish to update and then click the update button. At this stage you must select the backup file you have downloaded for this update process. Click the Open button on the Select Backup File dialog to continue.

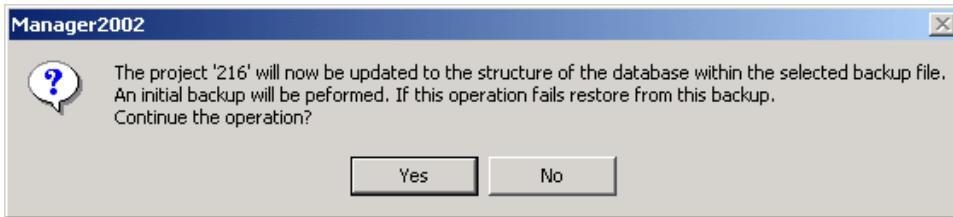
Warning: No users can be connected to the project during the update operation.



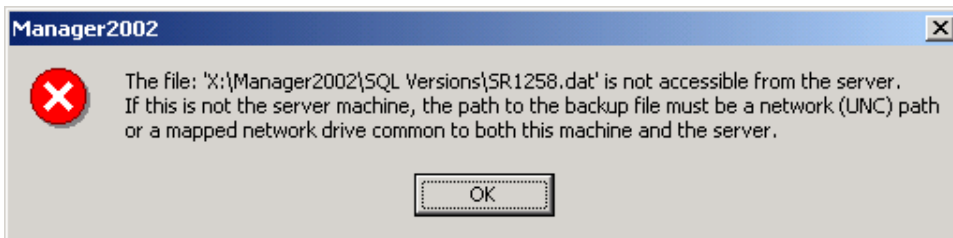
5. If there are any processes connected directly to the project database you will see a message like the one shown.



6. Before the update process continues you will be asked if you would like to proceed with the update. Ensure that the information displayed is correct before clicking the Yes button.



7. If the backup file you have selected is not accessible from the server, you will see a message like the one shown below.



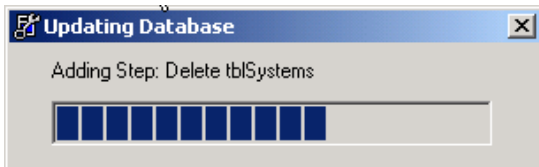
There are a few reasons that you may see this message:

1. You have selected a location on a network drive that is not mapped on the server computer.
2. You have selected a backup file on a local drive on the client machine you are running Manager from. E.g. You have selected a backup file called 'C:\backup.dat' on a client machine. The server computer will look for a file called backup.dat on *its own* C: drive.

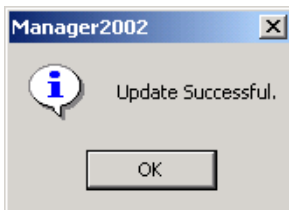
There is more than one solution to this problem, however the two easiest solutions are:

1. Copy the file to the server's local drive and run the Manager on the computer running SQL Server to perform the update.
2. Access the backup file using a UNC path ('\\computername\sharename\backup.dat'). This can be done through 'Network Neighborhood' or 'My Network Places'. A UNC path is universally recognized by all of the machines in a network domain as pointing to the same location.

8. The update process will proceed.



9. When the update operation completes successfully you will be informed.



10. Once the update operation is complete users can begin using the project again. If you receive any errors during the actual update process you **MUST** restore the project database from a backup that is created at the beginning of the update process. The backup file will be located in the 'C:\Program Files\Microsoft SQL Server\MSSQL\BACKUP' folder. The name of the file will be a combination of the project name and the date/time of the backup. (e.g. ShipConstructor2002Demo 3-20-2002 12.18.21 PM.bak)

Technical Support

Albacore Research Ltd. offers all customers technical support for the first 3 months after purchase. Additional support can be obtained through our maintenance and support program. In some cases our staff will offer to check out the problem with your data file. In this case it is advisable to compress the data file, for example with WinZip, and e-mail it to us. We will investigate the problem and forward a solution to you.

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