

Please disregard the Installation Instructions and the Hardlock Software sections in the *Getting Started* brochure, included in the software box. For a Commercial Network License, follow the Network License Installation Instructions outlined in this document.

# **Rocscience Product Installation Guide for Client-Server Commercial Networks**

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## 1. Introduction

The client-server version of Rocscience software requires that you install the server configuration utility on the server. You are also required to install each of the licensed software products (i.e. Dips, Phase2, Slide) on all the clients. During installation of the server configuration utility on the server, license files for each product are written to the software installation folder.

Rocscience network installations use the license file on the server to keep track of valid clients, maximum number of simultaneous executions of the software, and software expiration. The license file is an encrypted file with a .lf extension that resides in the software installation folder on the server. Each Rocscience software application has one. When a client runs the software, the software connects to the license file on the server and validates itself. In order to do this, the **client must have read, write and modify privileges for both the license file and the folder in which the license file resides.**

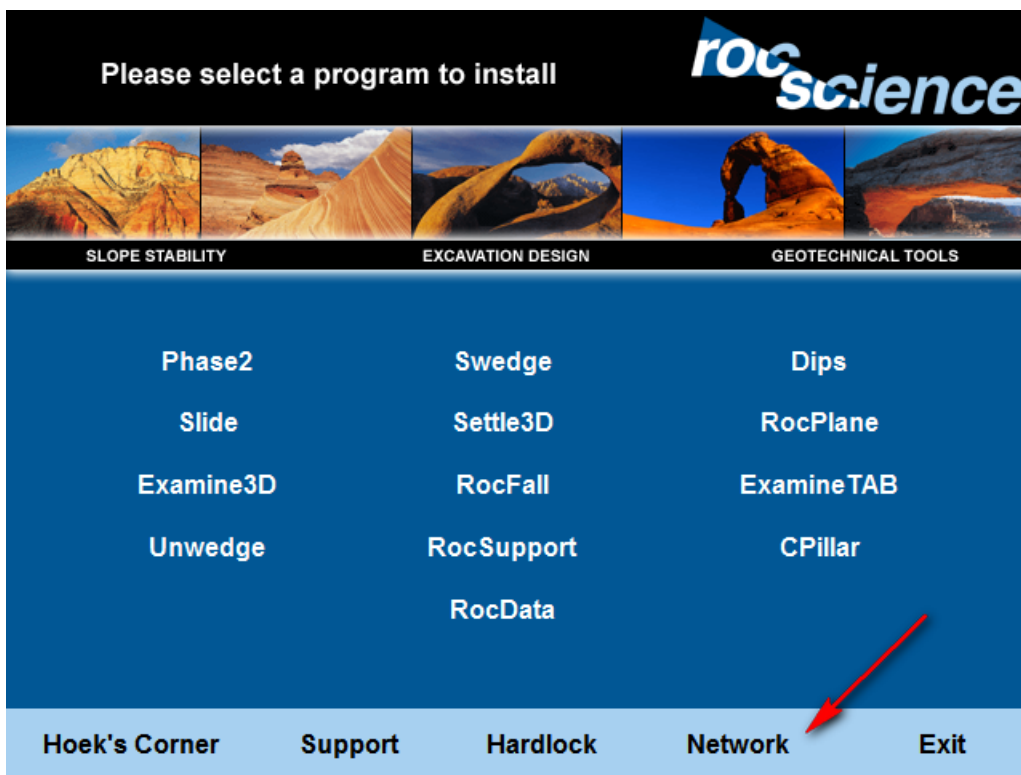
When the application runs on the client it also creates network semaphore files in the installation folder on the server. These files all end with the extension .net. The network semaphore files are used to count the number of clients currently running the software for licensing purposes. As a result, **the client must be able to write to the software installation folder on the server.**

One concern is the proliferation of viruses and the use of the installation folder on the server as a repository for unwanted data files. To prevent this, set a quota on the folder. Since the semaphore files are 0 bytes in size simply set a quota equal to the current folder size plus 1KB to account for any change in the license file through the addition of clients. This, along with the above read-only permissions on all files except the license file will prevent anyone from writing to the folder.

## 2. Server Installation Instructions – No previous install

This section describes the steps required to install the server configuration utility on the network server. This section is not for people upgrading or renewing their current network installation. This section is for new customers who have just purchased the Rocscience network version of the software and do not have any Rocscience software installed on the server.

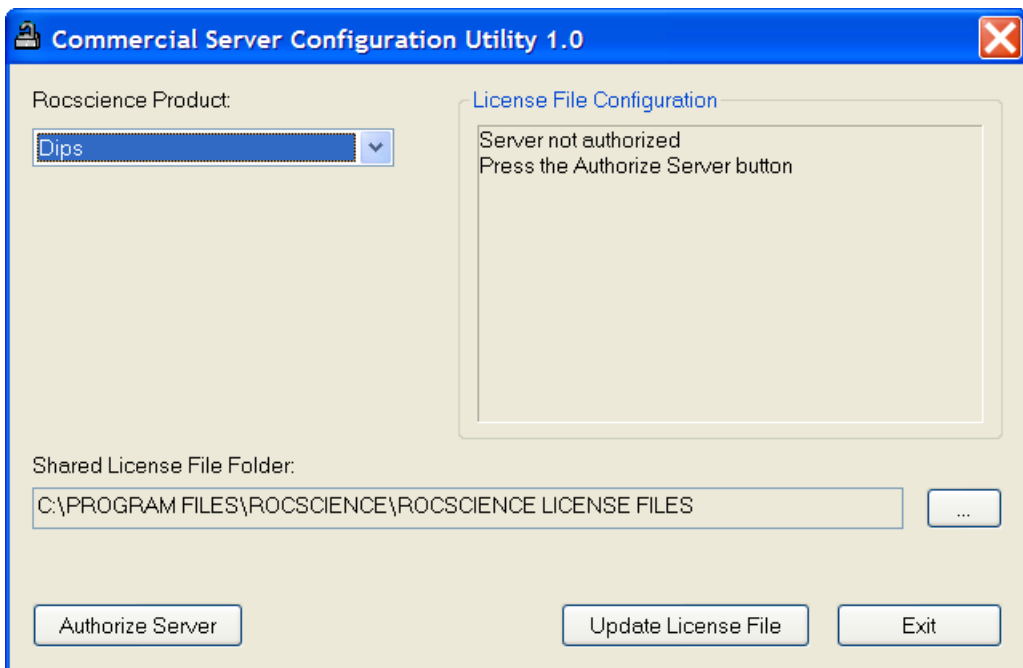
1. Log on with administrator privileges on the server.
2. Place the Rocscience CD, found in the software case, into the CDROM drive.



3. Select the Network option at the bottom of the screen (see above).
4. Select the Server Configuration option.

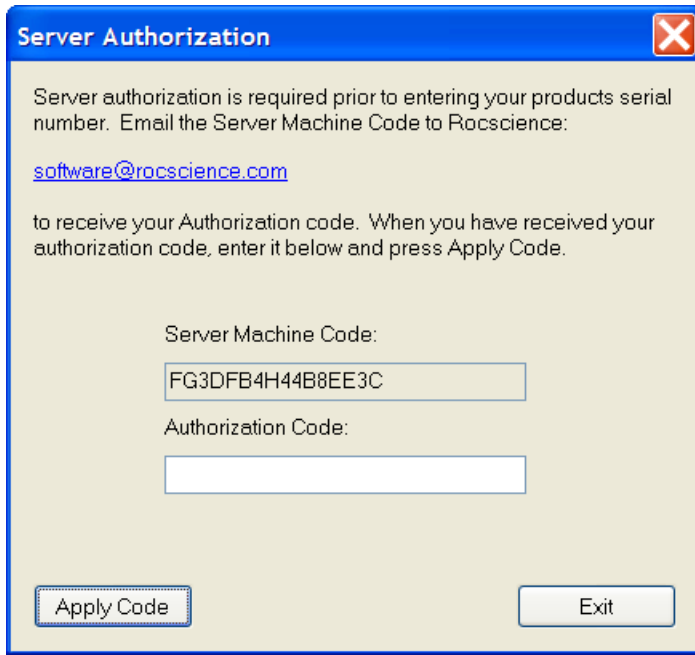


5. Complete the installation of the Server Configuration Utility.
6. Run the **Commercial Server Configuration Utility** through the Rocscience Start menu. You'll see the following dialog appear.

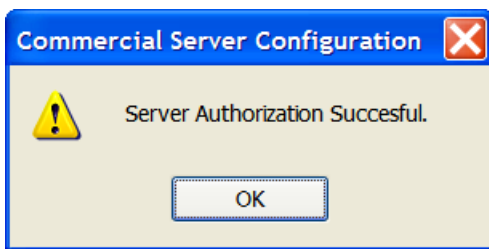


7. The first step is to authorize the server as being able to serve the license files. Press the **Authorize Server** button.

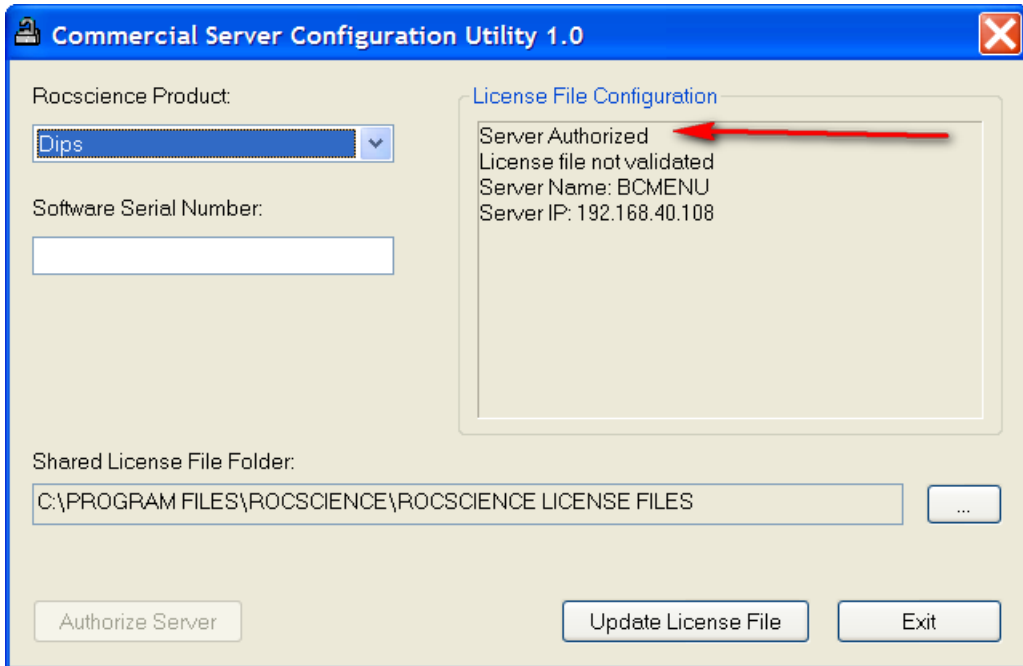
8. You'll see the following dialog appear. Email the Server Machine Code to Rocscience using the link in the dialog or email it to [software@rocscience.com](mailto:software@rocscience.com). Rocscience will email you back the Authorization code. Until you get the Authorization Code, you can shut down the Server Configuration utility.



9. When you receive the Authorization code, repeat steps 5 thru 7 and enter the code in the above dialog. Press the Apply Code button. You should see the following dialog.




10. Press OK and then Exit in the Server Authorization dialog. Look in the License File Configuration information box (see below), you should see that the server is authorized.

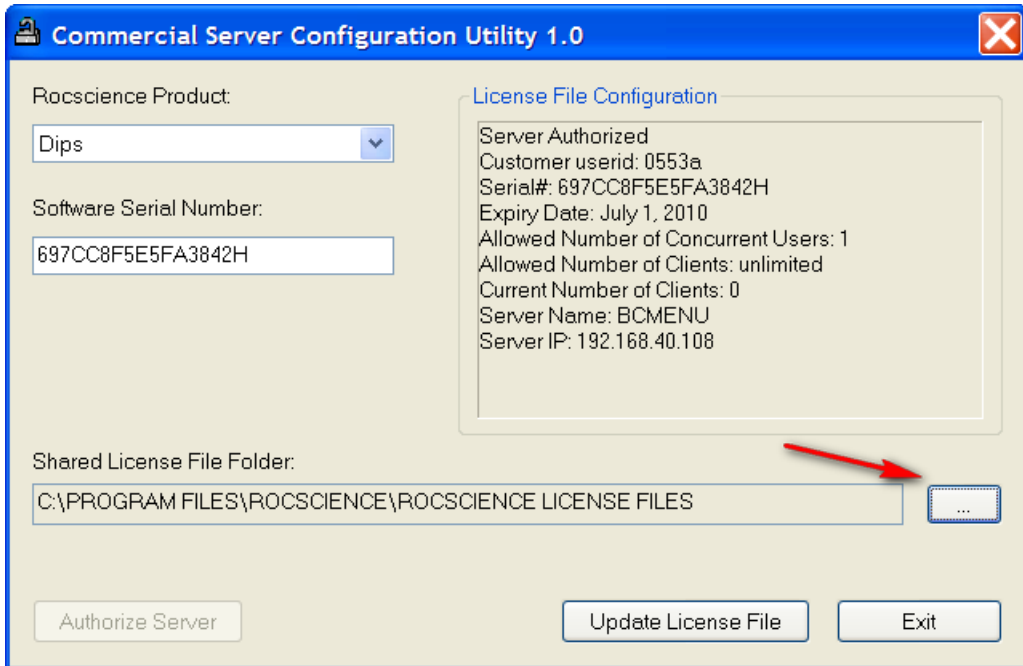


11. Now choose your Rocscience Product using the combo box in the top left corner of the dialog. Enter the products Server serial number. This is the serial number that starts with the number 6. DO NOT enter the client serial number. Press the Update License File button. Your license information should now be listed in the License Configuration area.
12. Follow step 11 for all Rocscience products then exit the configuration utility.
13. The above process creates a folder, by default:

**C:\PROGRAM FILES\ROCSCIENCE\ROCSCIENCE LICENSE FILES**

This folder contains license files for all Rocscience products. Only Rocscience products that you have defined serial numbers for (see step 11 above) will have valid license files. You now have a choice. The clients must access (read/write/modify) these license files. So you can either share this folder for use by the clients (recommended) or create a folder somewhere else and share it. The easiest is to share this default folder. Note that the clients must have read, write, and modify privileges on this shared folder. Almost all of the problems encountered by customers are a result of this folder not having the correct permissions.

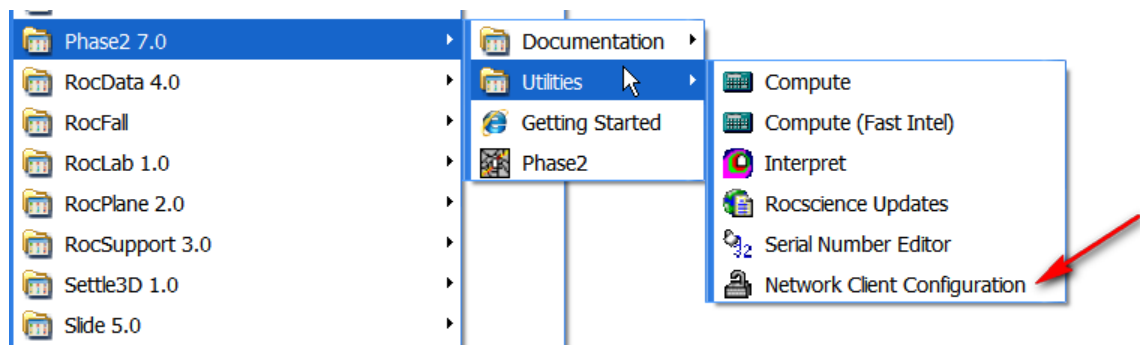
14. If you wish to use another folder for the license files, do so by changing the Shared License File Folder option in the Server Configuration Utility. Use the Navigation button  to choose or create the folder (see below). This folder must have read, write, and modify privileges by the clients.



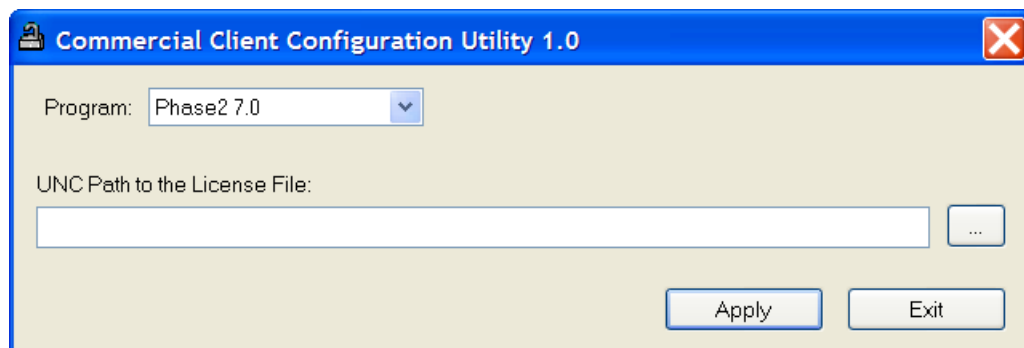
### 3. Client Installation Instructions

This section describes the steps required to install Rocscience software products (i.e. Dips, Slide, Phase2) on a client. This assumes that the network administrator has successfully installed the Server Configuration Utility and has properly shared the license file on the server (see Server Setup Instructions). The network administrator will have given you the path to the license file on the server.

1. Obtain the path to the license file on the server from your network administrator. This must be a UNC path that the client uses to access the license file on the server. You should be able to see the license file by using Windows Explorer to navigate to the shared folder on the Network Server.
2. Log on with administrator privileges on the client. Uninstall any previous versions of the Rocscience software product installed on the client.
3. Install the software product on the client. During installation you will be asked for a serial number. Enter the **Client** serial number that was shipped with your Rocscience product. This serial number will start with the number 7. Make sure you DO NOT use the server serial number that starts with the number 6. You will then be asked to enter a folder for the program files. We highly recommend that you enter a folder on your local client (client based install). However, it is possible to enter the shared folder on the server used in step 2 (server based install). If you do a server based installation please read the section “*Issues with Server-Based Installations*”..
4. In your Rocscience products Start Menu, there will be a Utilities folder. Inside this folder there is a program called Network Client Configuration (see below). Run this program.



You should see the following dialog appear:

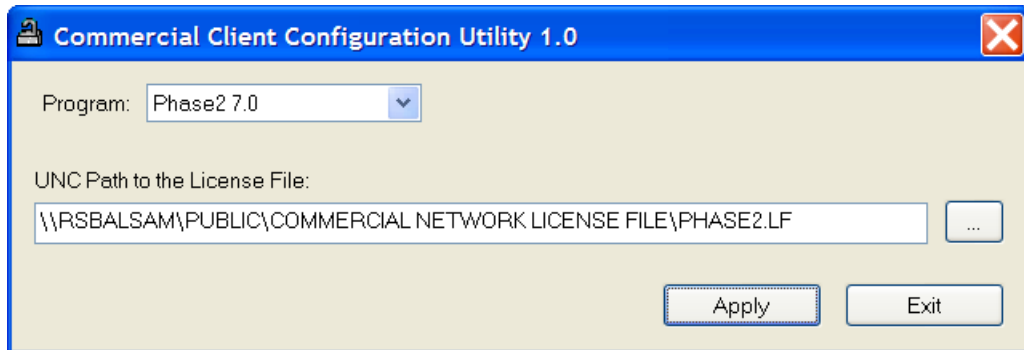


To run the software on the client you are required to locate the license file on the server. The license file is in the shared folder on the server. Make sure the Program is correct. If not, change the Program to the correct Rocscience software package. Press the button to the right of the path

edit box  to navigate to the folder on the server containing the license file. The path to the license file should be a UNC path of the form:

\\COMPUTER\_NAME\SHARE\_NAME\...\FILE.LF

Select the license file. Press Open. Press Apply in the Commercial Client Configuration Utility dialog. If you have done everything correctly you should see a dialog saying that client is properly configured. Exit the Client Configuration Utility.



5. Run your Rocscience software.

## 4. Renewing a Subscription on the Server

At the completion of the subscription period, a dialog will appear when you try and run the software asking you to renew your license. If you have renewed your license, Rocscience will have sent you a new Server serial number for your Rocscience product. As the server administrator you will be required to:

1. Install The Server Configuration Utility if not already done so
2. Enter the new serial number into the Server Configuration Utility

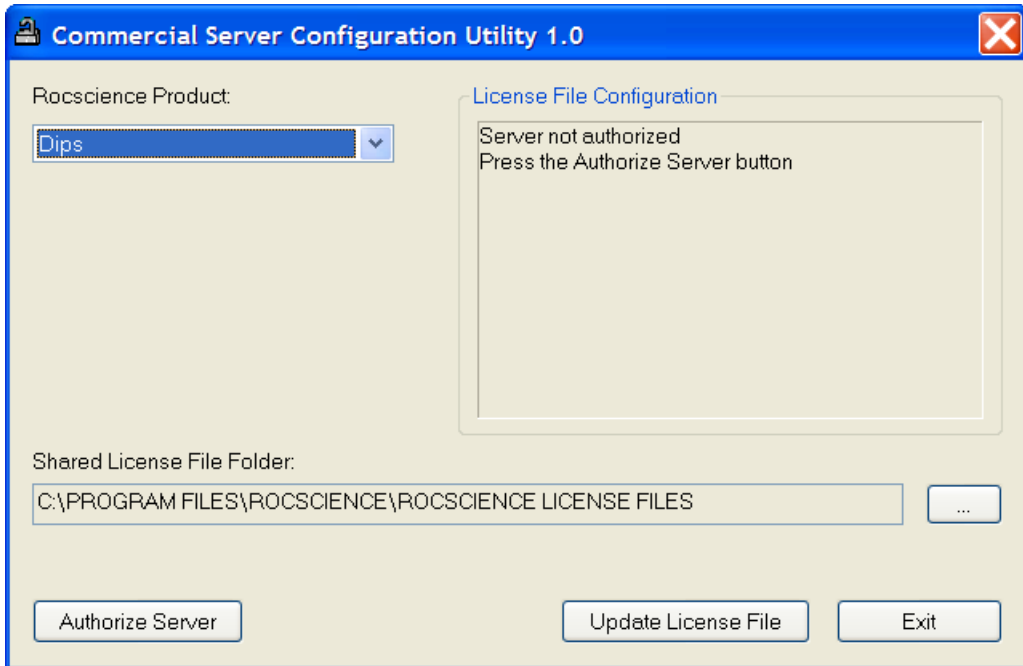
### *Installation of the Server Configuration utility (version 1.0, July 2009)*


Prior to July 2009, customers did not use the Server Configuration Utility on the Server but were required to install the Rocscience software on the server. This is no longer the case. However, customers who are renewing their subscription, but do not use the Server Configuration Utility are now required to install it. The Server Configuration Utility is used to manage your Rocscience License. It also greatly simplifies the renewal process.

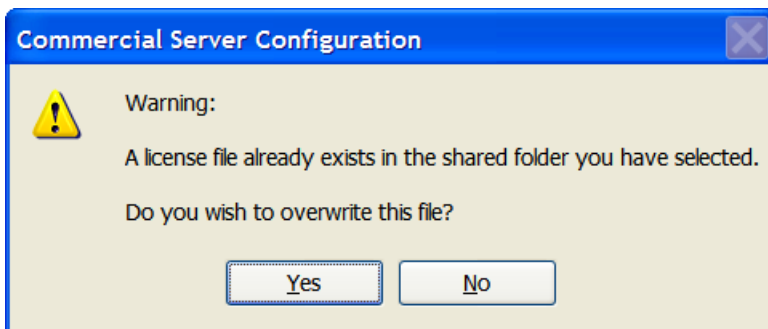
You can check whether you have the **Commercial Server Configuration Utility** installed by going to the Rocscience Start menu and checking if it is there. It will also be in the Add/Remove programs list under **Rocscience Commercial Server Configuration Utility**.

If you already have the Server Configuration Software Installed, skip to the next section on entering your new serial number. Otherwise, use the following steps to install the Server Configuration Utility.

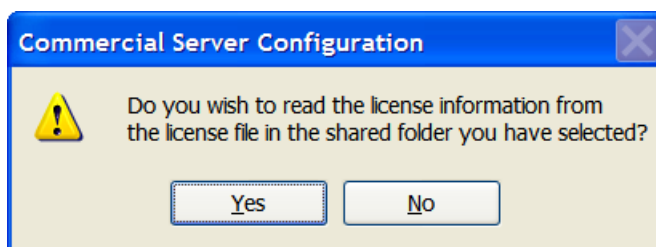
1. Uninstall all Rocscience Software from the Server. Do not remove the license files used during your last subscription period.
2. Determine the location of the Rocscience license files on the server. These should be in a shared folder that the clients access. They have a .lf file extension with the product name (i.e. Dips.lf, Phase2.lf, Slide.lf). Note: Often multiple copies of the license files exist, as the system administrator might copy the license file from one location to the shared folder. Make sure the location is the shared folder used by the clients.
3. Download the latest version of the Server Configuration Utility using the following link:  
<http://www.rocscience.com/downloads/CD/ServerConfig10.zip>  
Unzip the ServerConfig10.zip file and run the Setup.exe installation program.
4. Complete the installation of the Server Configuration Utility.
5. Run the **Commercial Server Configuration Utility** through the Rocscience Start menu. You'll see the following dialog appear.



6. You next need to authorize the server. You can do this two ways. The easiest way is to read a previously authorized license file. The other way is to use the Authorize Server button (see steps 7 thru 10 in section 2 - Server Installation Instructions – No previous install). Since you are updating your subscription, and have a previously authorized license file, we'll authorize by reading a previously authorized license file.
7. Choose your Rocscience product from the combo box in the upper left corner of the dialog.
8. Press the Navigation Button  and navigate to the folder containing your current license file (see step#2).
9. You will get the following dialog:

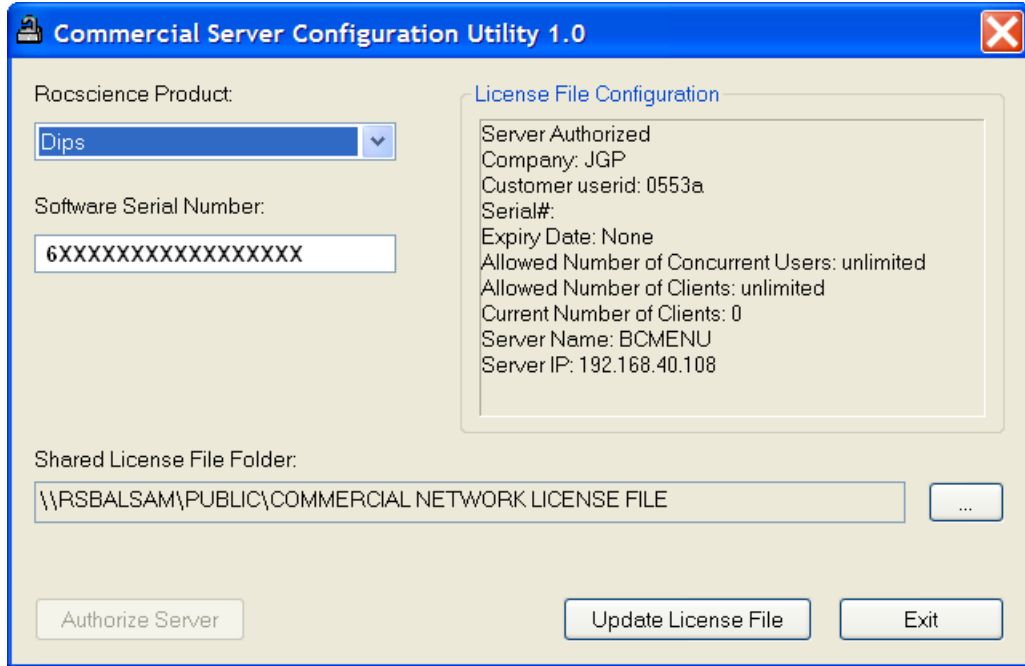


Select **No** as you do not want to overwrite your current authorized license file. In the next dialog:



Select **Yes** as you want to read the data in the previously authorized license file.

10. This will authorize the server. If you look at License File Configuration box you should see that the Server is Authorized (see below) and information on your current license.



11. If you have problems, authorize the server using the method illustrated in steps 7 thru 10 in section 2 - Server Installation Instructions – No previous install.

### ***Entering a new serial number into the Server Configuration utility***

Once the server configuration utility is up and running, and the server has been authorized, it is a simple process to enter in your new server serial number. Simply change the Rocscience Product to the product which you are trying to update, and enter in the server serial number (note: the server serial number always starts with the number 6). Then press the Update License File button. The License File Configuration area should update to your new license information.

## 4. Issues with Server-Based Installations

The advantage of a server-based installation is that only one copy of the software exists on the shared network folder on the server. When updating the software, only one update needs to be performed, and all clients are running the same version of the software. The disadvantages are that load times are much slower since they are over the network, and incompatibilities between different operating systems can cause the software not to work on certain clients. Here are some comments for people that are planning a server-based installation.

1. People with a mix of clients with different operating systems (Win 9x/Me/NT/2000/XP) should use a client-based approach where each client has the software installed on it and only the license file on the server is shared. If you do have a mix of operating stems and you still wish to do a server-based installation, make sure you pay close attention to the following comments.
2. All computers that are part of a server-based installation should have the latest Microsoft service packs, library updates, and common controls update installed.
3. Some Rocscience software under certain operating systems install Dynamic Link Libraries, DLL's into the software installation folder. **No DLL's are installed in the Windows System or System32 folder.** If conflicts arise, remove these files if they exist: mfc42.dll, msvcr7.dll, msvcrt.dll, opengl32.dll, glu32.dll, comctl32.dll. First make sure that the latest service packs, library updates, and common controls update (comment#2) are installed on ALL the clients AND the server.
4. Every time you install the software on a client, the software in the installation folder is being updated. As a result, the DLL's are being written to this folder. If you remove these DLL's (see comment#3) then it must be done after the final client installation.
5. Rocscience software adds Registry keys to both the server and client during installation and after running the software for the first time. These keys are in the

HKEY\_LOCAL\_MACHINE\\Software\\Rocscience  
HKEY\_CURRENT\_USER\\Software\\Rocscience

registry key according to the product you install. If you are migrating the software across many clients, then copy all keys and values in the Registry in the above location AFTER the software is running on first client. Also copy the Rocscience Start Menu as well.