Installation Procedure

The following will guide you through the process of installing and starting the SOA Gateway server.

- Using the Deployment Wizard for Linux/Unix type systems
- Server Installation

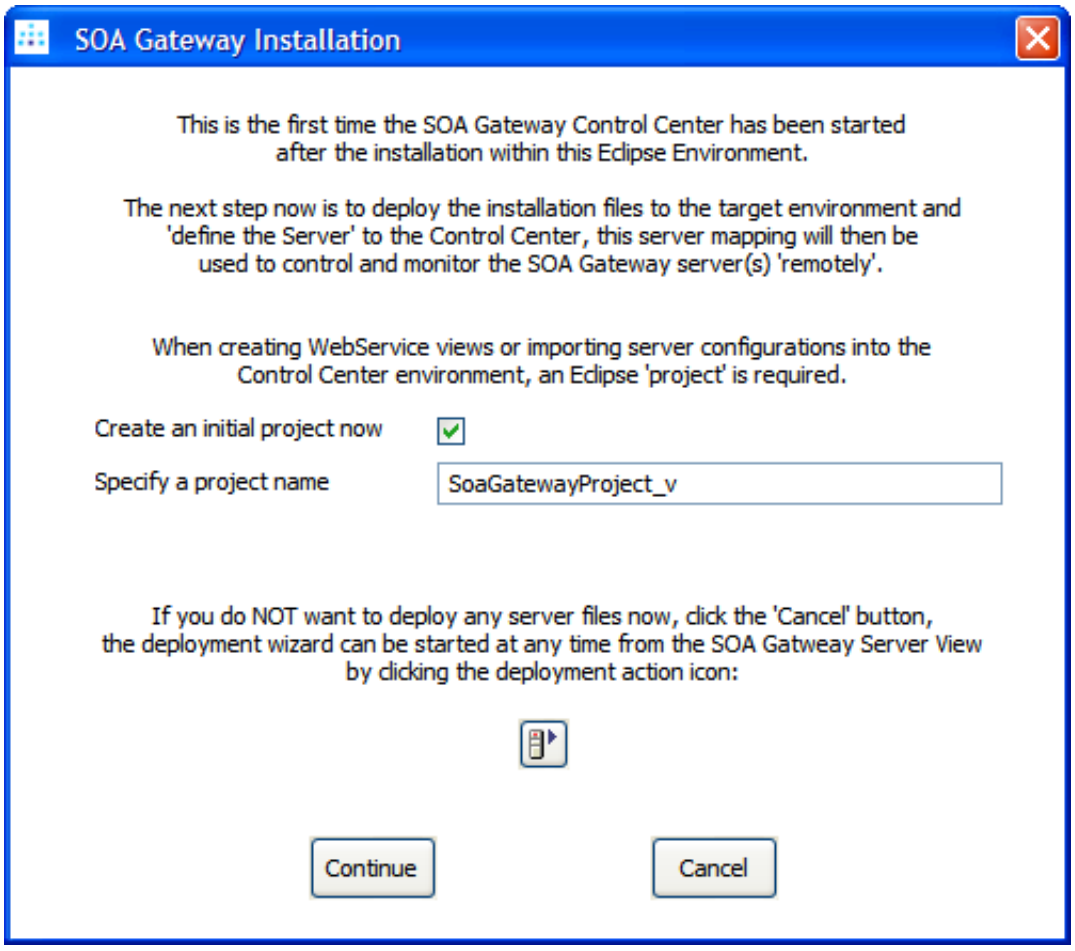
Using the Deployment Wizard for Linux/Unix type systems

The next step then is to install and start the SOA Gateway server. To do this, you may have to deploy files to a remote machine. For example, you want to run your SOA Gateway Control Center on Windows, but your SOA Gateway server on Linux. You can use the deployment wizard to send the deploy the required files to Linux and start your server.

- If this is the first time you have started the Control Center, the SOA Gateway Perspective will be activated automatically.

  If, for some reason, the SOA Gateway Control Center perspective has not started, click **Window -> Open Perspective -> Other** and choose **SOA Gateway Control Center (Admin)** from the list. Click **OK**

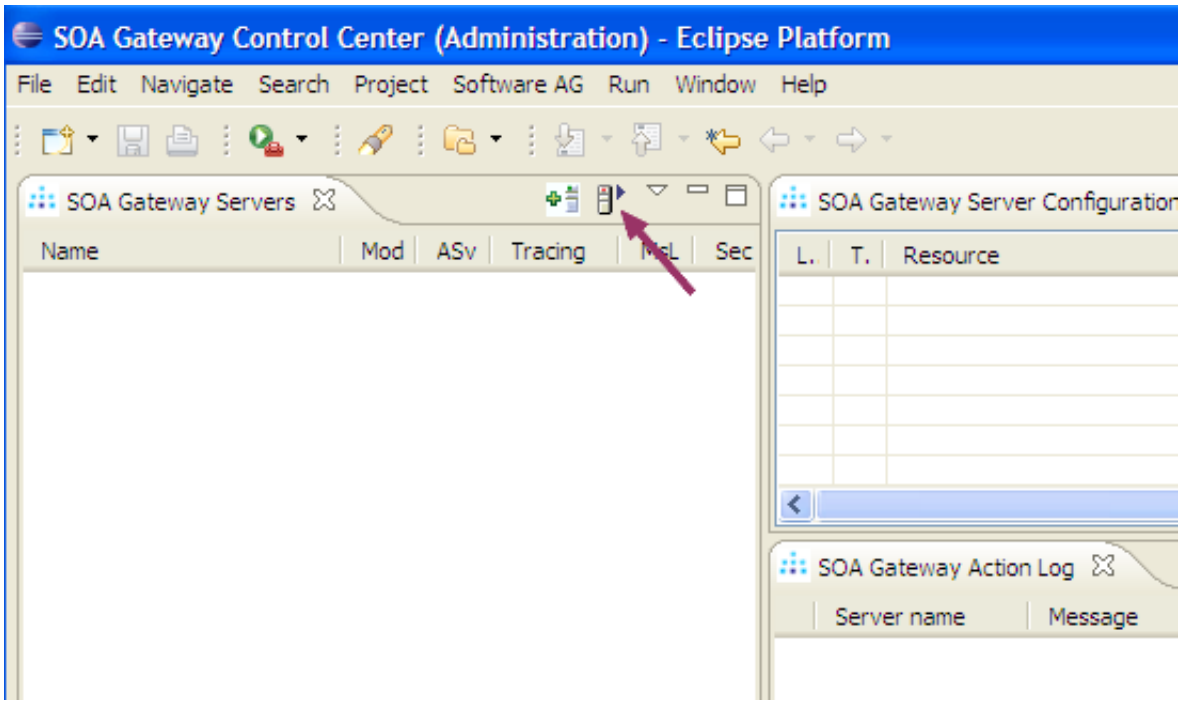
  You will see this initial screen which explains what will happen next:



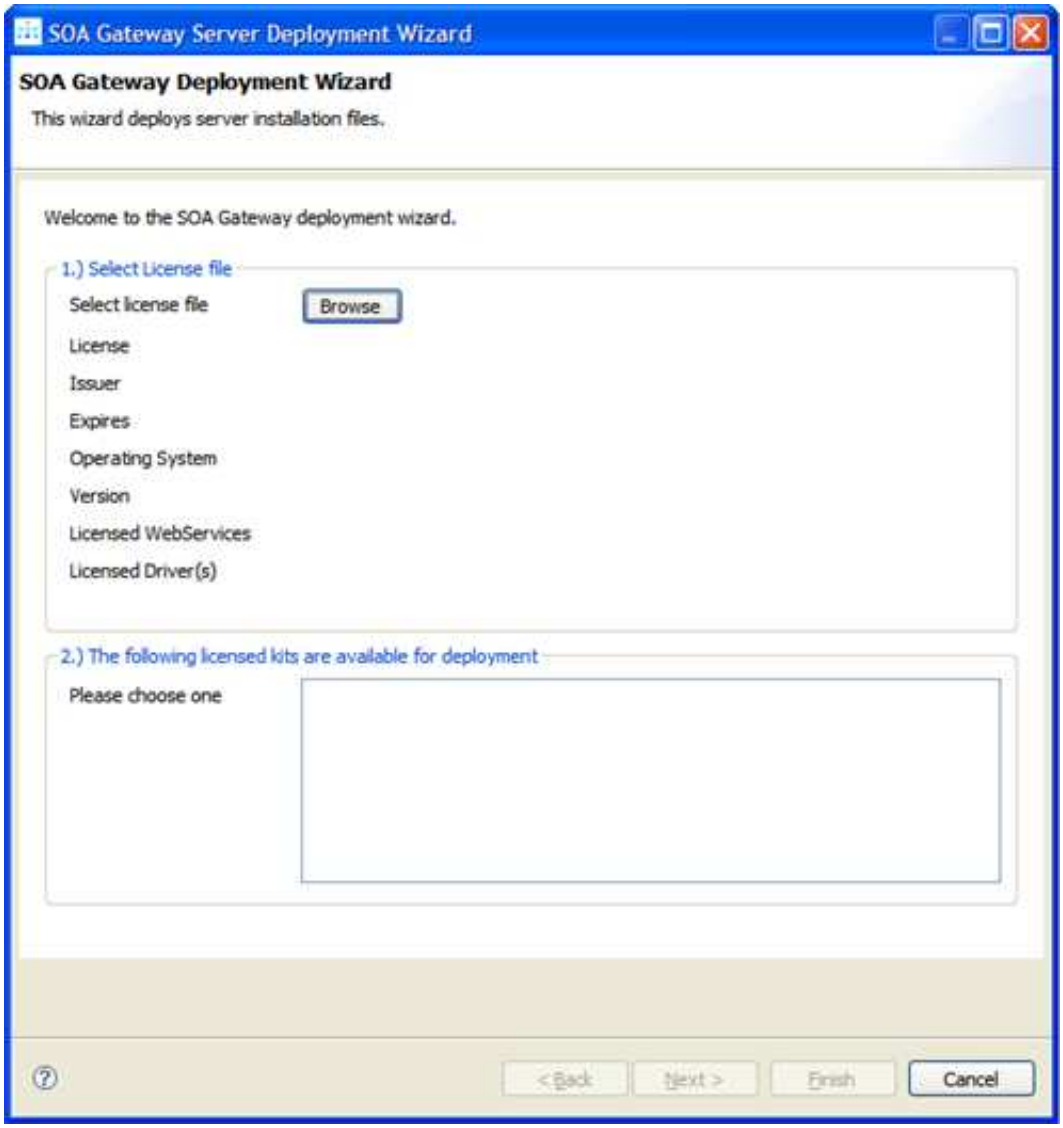
The name proposed for the "initial project" contains the version and release of the SOA Gateway Control Center just installed. For an update installation you may either want to create a new directory, or just uncheck the "Create..." box to skip the creation of the project folder.

Usually you will now simply click the ’Continue’ button, which will then start the ’Deployment Wizard’ to guide you thru the process of defining your server within the SOA Gateway Control Center and transfer (FTP) the installation files to the SOA Gateway Server target machine.

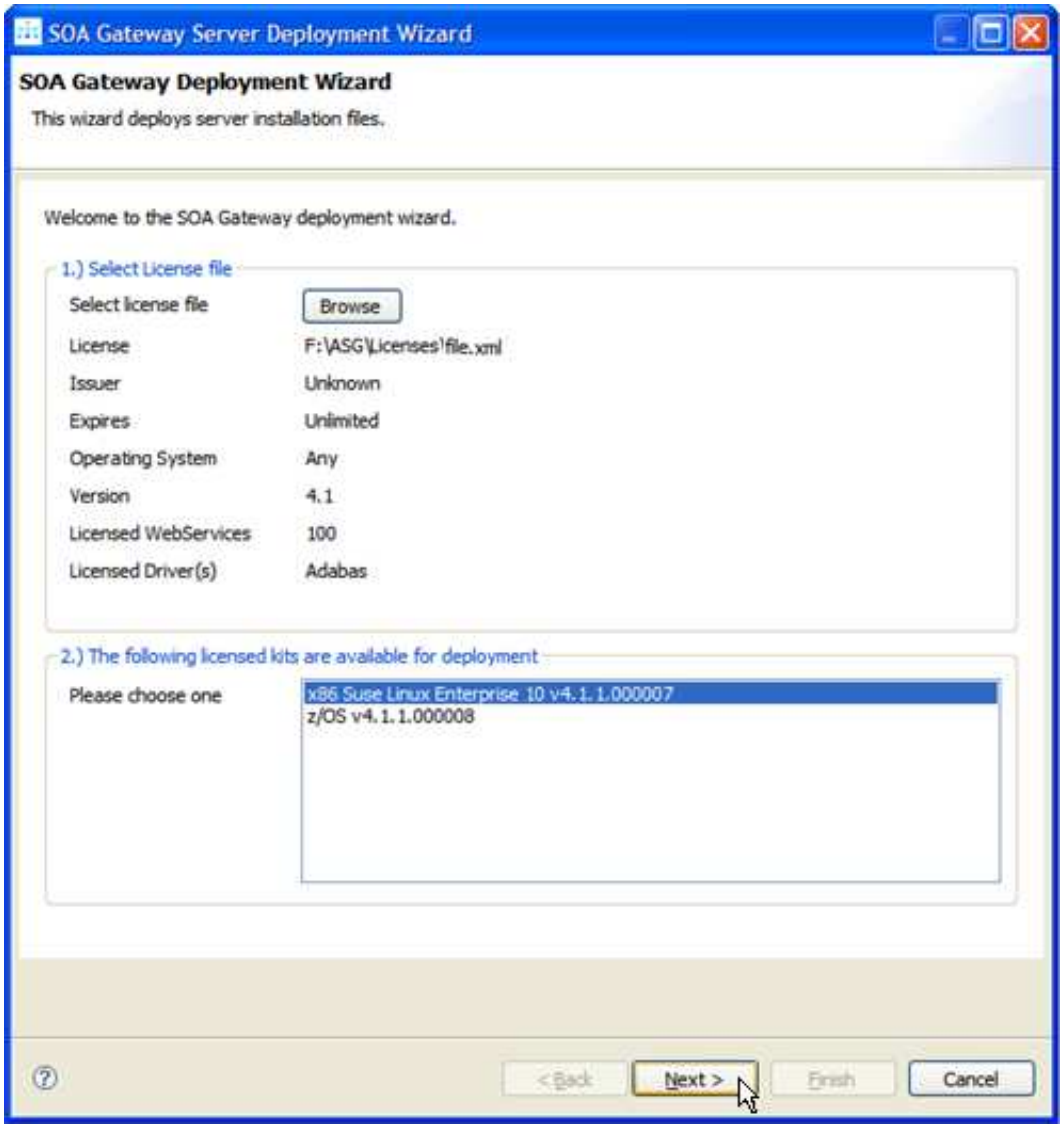
- If you, for whatever reason, opt to NOT run the Deployment Wizard at that time, you can start the wizard anytime later on by clicking the Deployment action button in the title bar of the ’SOA Gateway Servers’ view



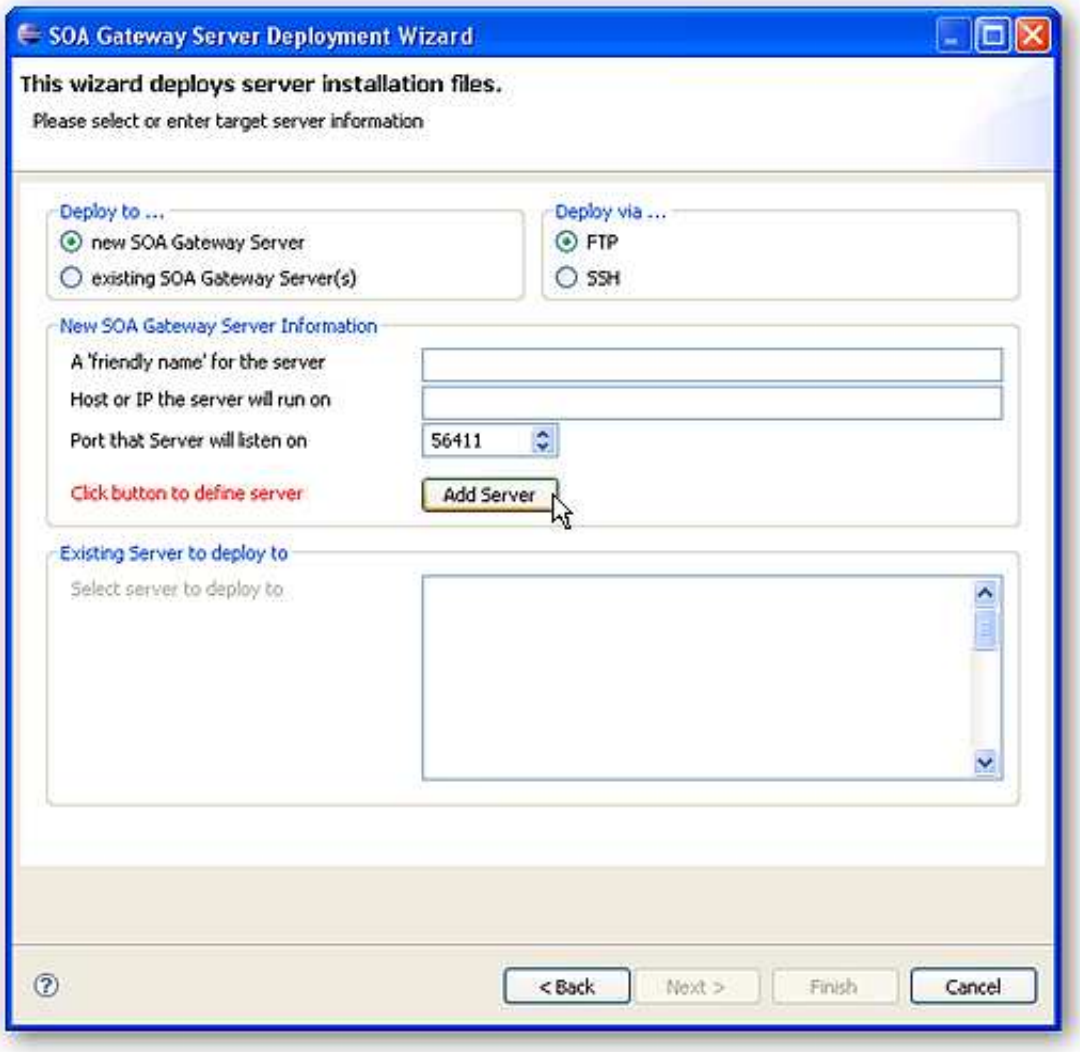
- The Deployment Wizard will now start
- From the drop-down menu, choose the installation files you want to deploy. These files were downloaded as part of the Find and Install step above.
- Select your SOA Gateway license file.



- In this example we are deploying to a x86 Suse Linux 10 machine, so select the relevant install kit from those listed as being covered by the selected license. The license information is also displayed.



- Click **Next**
- The following screen allows you to either select an existing SOA Gateway server to deploy to (a list of servers known within your Control Center environment is presented), or to define a new SOA Gateway server to the Control Center. This server definition will be used for both the deployment process as well for (remote) server administration later on.
- In this example, we define a new server, which we call "myServer" and it will run on host "soagate", listening on port 56411.



- To define a new server:
- Enter a ’friendly name’. This name will be used to refer to a SOA Gateway Server without needing to enter the hostname (or IP) later on.
- Enter the hostname or IP of the machine on which the SOA Gateway server will run. This host/IP will be used to send the install files (via FTP) and will become the host/IP that you use when issusing requests to the SOA Gateway.
- Enter the port which you would like the SOA Gateway to listen for connections on.

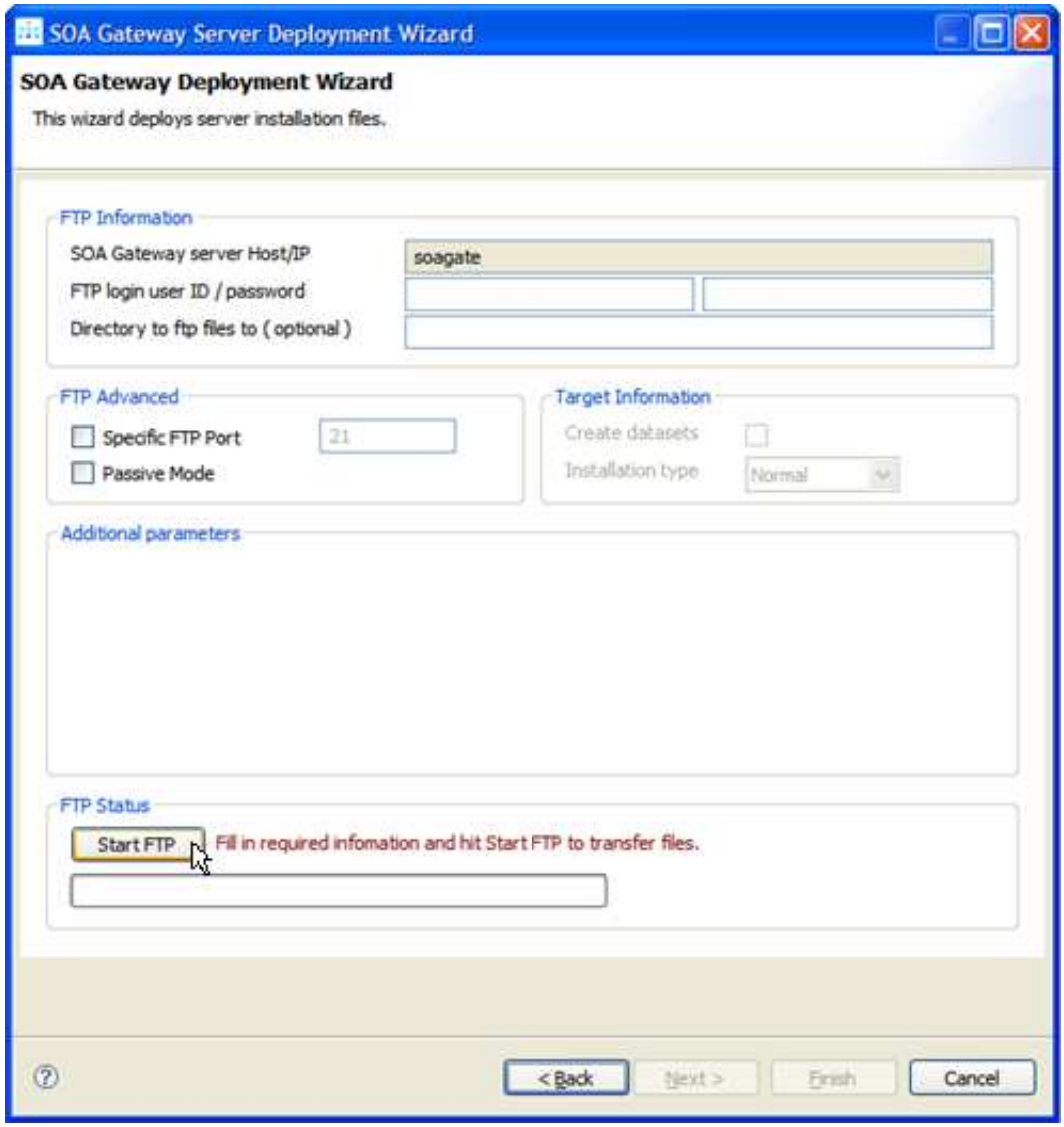
  You must ensure that the port you choose here is available for use on the server machine.

  The port entered here will utimately be the port that the SOA Gateway uses to service requests.
-

  Important:
  Once you have filled in all of the above, click **’Add Server’**

- The server will now be added to your SOA Gateway Control Center ’Servers View’ for later use.
- Select the transport mechanism, one of
  - FTP: only transfer, actual installation has to be carried out by logging on to the target system and starting the installation script manually
  - SSH: this method optionally allows for automatic ("silent") installation, no separate login to the remote system required. After the files have been transferred the install script will be executed by the deployment wizard, the SOA Gateway server (optionally) be started.
- Click **Next**
- Alternatively, if an already defined server is to be used (i.e. installation files deployed to it), check ’Deploy to existing SOA Gateway Server’ and select a server from the drop-down box in the ’Existing Server Information’ section.
- The next screen is used to deploy the installation files to the target machine, i.e. the machine is where the SOA Gateway server will run. Which of the following paths will be taken depends on the choice made regarding the transport mechanism above.

  FTP:



- The hostname / IP will have already been filled by what has been specified on the previous page.
- Enter the username which is used to login (via FTP) to the server machine (if required)
- Enter the password (if required)
- Enter a directory to send the installation files to. This directory may be relative to the login directory, or can be a fully qualified path name. The directory will be created if it does not exist.
- If your FTP server requires a port other than 21, you can specify that by selecting **Specfic FTP Port** and entering the FTP port number.
- If your FTP server requires passive mode transfers, you can enable this by selecting the **Passive Mode** checkbox
-

Important:
Click the **Start FTP** button to begin the FTP.

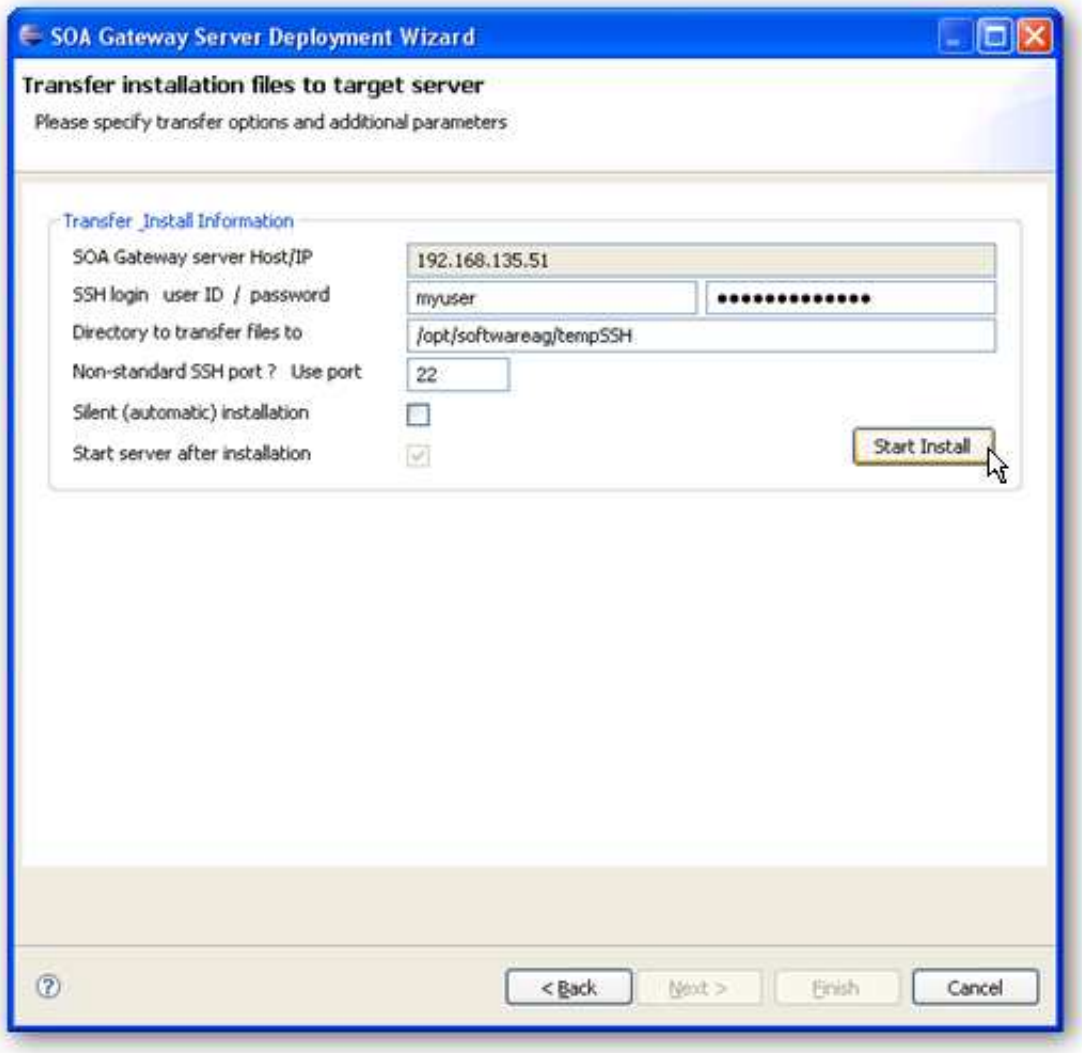
- The *Additional parameters* group will allow you to enter (if required) additional information required for the operation of the driver(s) to be installed. Parameters related to all *licensed* drivers are queried here, you may omit those for all drivers you do not intend to use.

- Once the FTP has completed, you need to logon to the target machine, and run the server-specific installation steps.

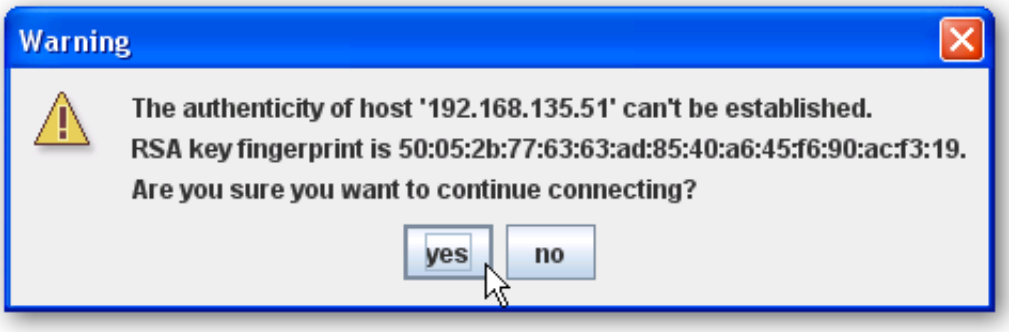
  - Server installation steps

SSH:

- To just transfer the install files an not have the Deployment Wizard run the installation remotely, fill in your login credentials, sepcify a directory to transfer the files to and click **Start Install**.

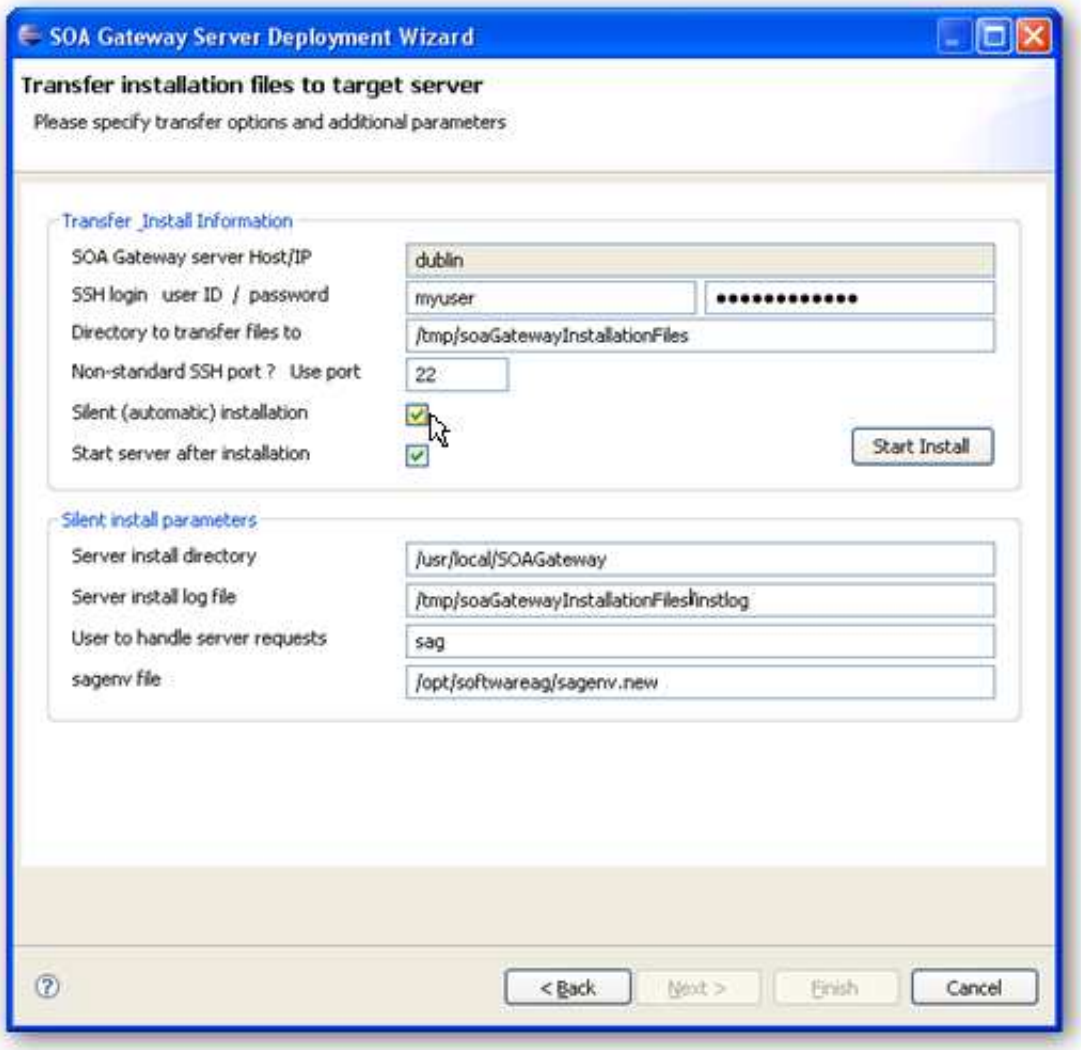


Once you have started the transfer the following will prompt for your confirmation if this is really the host you want to send the files to

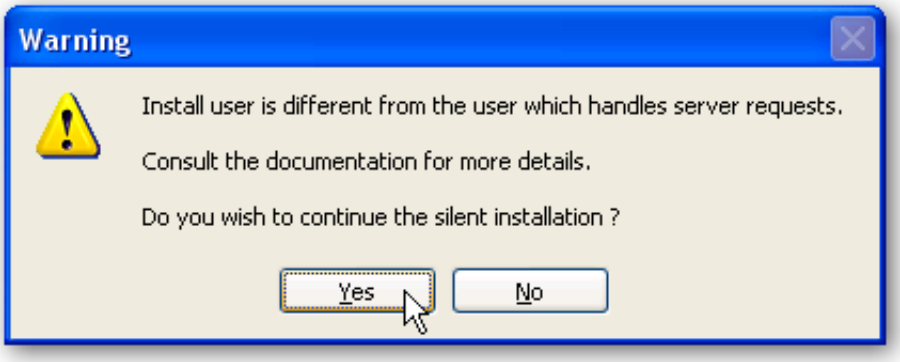


- If you want the Deployment Wizard to also schedule the actual installation remotely, check the **"Silent (automatic) installation"** option, set the various directories, then click **Start Install**.

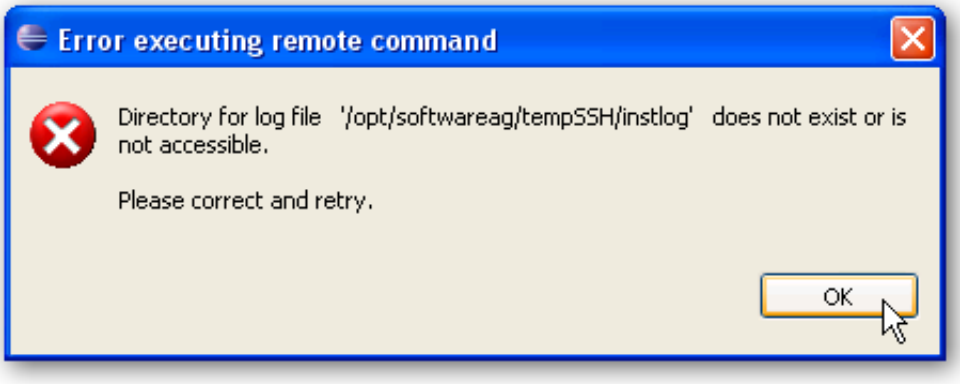
  Important:
  If you are updating an existing installation, the **"Silent (automatic) installation"** should not be checked.



When different User IDs are specified for the "login" and "handle server requests", the following will prompt you for confirmation, please check if the authorization level for the user running the SOA Gateway server is sufficient to access and execute files created by the "login user".



If the directory specified to contain the install log file does not exist you will be asked to create it before the installation can continue.



All other files will be created by the installation scripts.

The overall transfer status will be shown directly within the Deployment Wizard window, for larger files an external window will pop up to indicate the progress.

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Note:
To enable "passwordless logins" execute the following steps:

1. Run the command : ssh-keygen -t dsa

   e.g.

```
Generating public/private dsa key pair.
Enter file in which to save the key (/home/myUser/.ssh/id_dsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/myUser/.ssh/id_dsa.
Your public key has been saved in /home/myUser/.ssh/id_dsa.pub.
The key fingerprint is:
7d:a9:f9:44:31:c3:d8:6c:d8:c1:d0:5f:39:f8:75:79 myUser@192.168.135.51
```

2. Copy your public key to the remote server

   e.g.

```
>> scp .ssh/id_dsa.pub myUser@192.168.135.99:.ssh/
Password:
id_dsa.pub           100%  600     0.6KB/s   00:00
```

3. Login to the remove server and add your public key to the authorized keys.

   e.g.

```
myUser@192.168.135.51:~> ssh -l myUser 192.168.135.99
Password:
Last login: Tue Sep 29 17:02:47 2009 from v-br.vpn.risaris
>> cd .ssh/
>> cat id_dsa.pub >> authorized_keys2
```

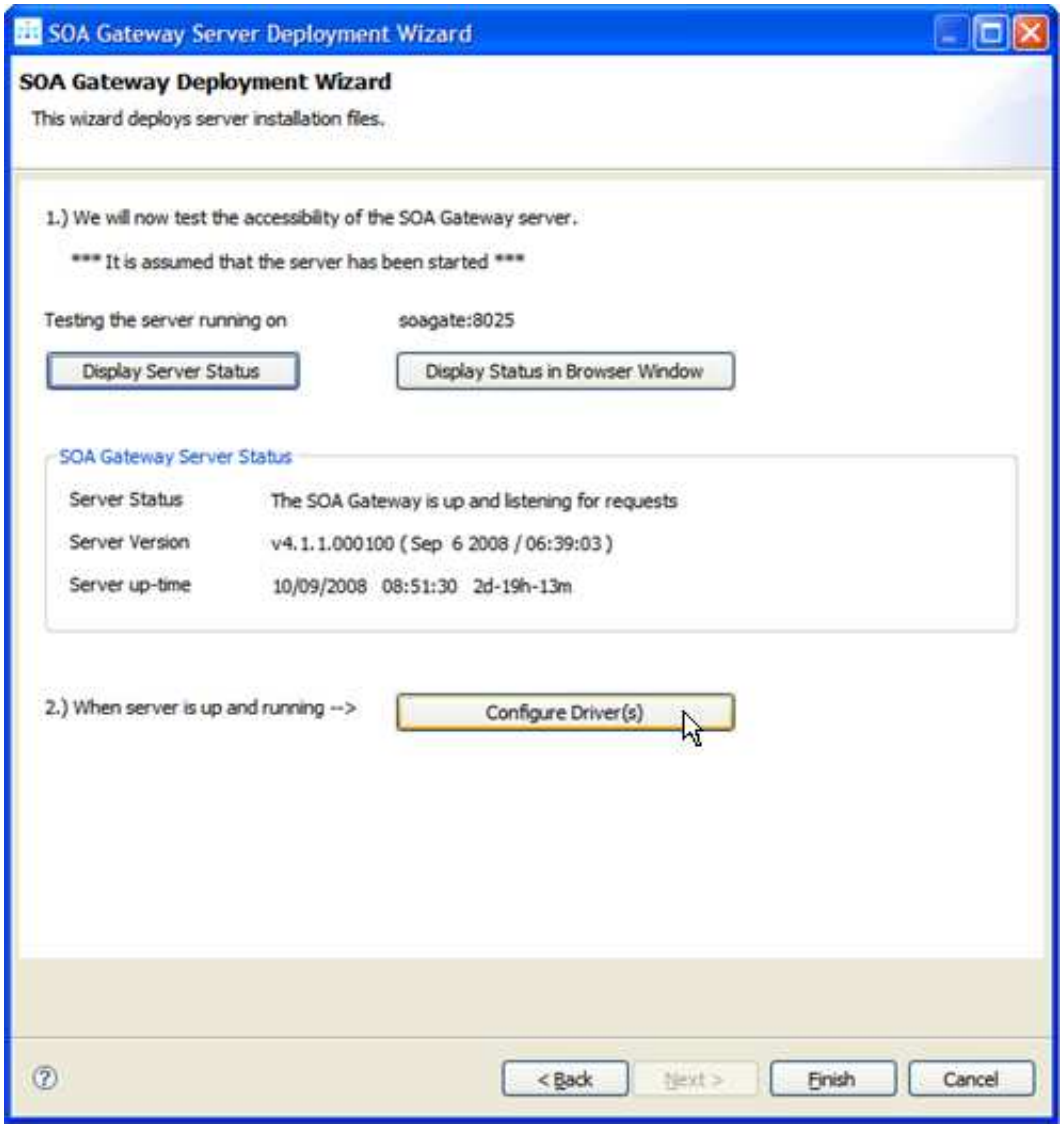
- You should now be able to login to the remote server without a password.

  In the case of problems, SSH information will appear in /var/log/messsages or /var/log/lastlog

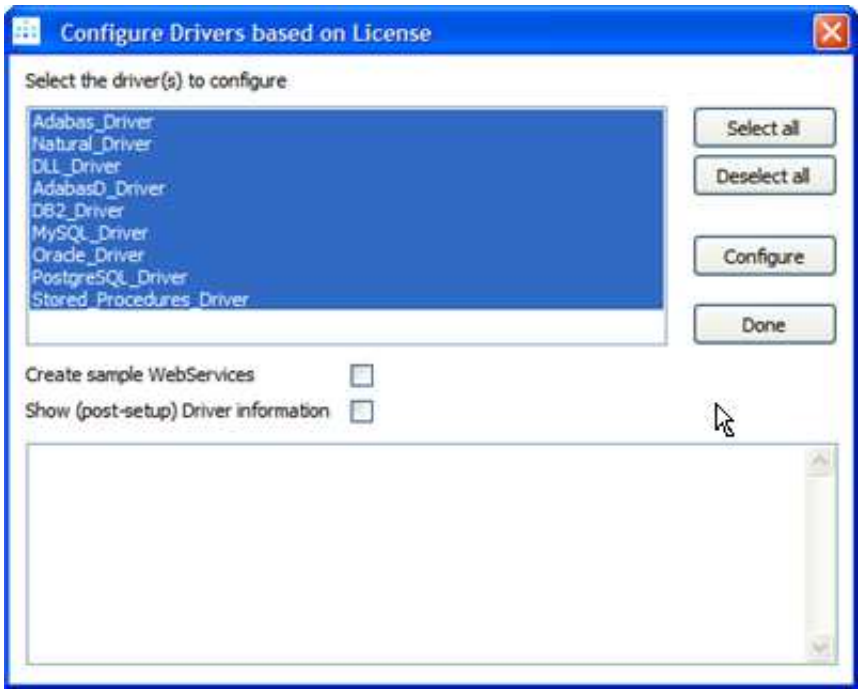
- Now that the server has been installed, you can query the server status from the deployment wizard.

  You can choose to view this status information in the Deployment Wizard, in a browser, or both.

- Click the **Display Server Status** or the **Display Status in Browser Window** buttons to return the status of the server.



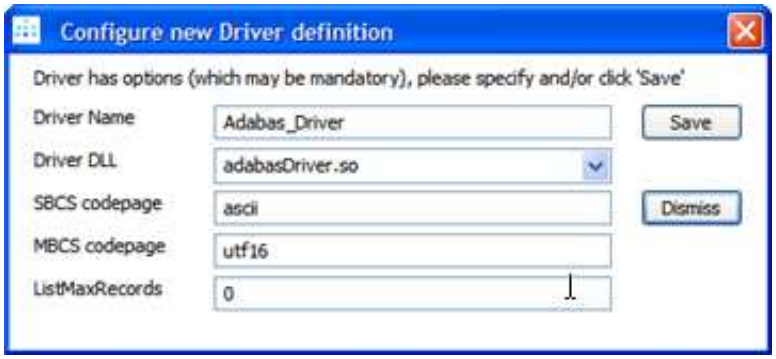
- You should now click **Configure Driver(s)** to create SOA Gateway drivers that are enabled in your license. If you choose to not add drivers now, they can also be created at a later stage, more information about defining drivers can be found in the Servers View section of this documentation.



The "Driver Wizard" will present a list of licensed drivers, and come up with all drivers selected and ready to be defined. You may now just click the **Configure** button to define all of them, or deselect those you do not need or want to set up at that stage.

Click "Configure".

In case the driver does not require any additional parameters to be set, it will be defined now, otherwise the Driver Definition Dialog will ask for the additional parameter(s) to be set. Here we set the "ListMaxRecords" parameter to a value of "0" (zero) and click the **Save** button.



- When **Show (post-setup) Driver Information** is selected, and information is available for the driver(s) just installed, it will be displayed (cumulatively) after the driver(s) have been configured

- Click **Done** to close the Deployment Wizard
- Configure the SOA Gateway using the *SOA Gateway (Eclipse) Control Center*

Server Installation

This section outlines machine specific installation steps.

Host-type: Linux / *ix type

1. On the target machine, in the installation directory, execute the script ./installServer.sh.

   Important:
   It is recommended that this script runs using the **root** user.

   Important:
   If you wish to update an existing installation, run this script with the *-update* option.

2. The script will check if the prerequisites are met.

3. Enter the full path of the SOA Gateway installation. Example: */usr/local/soaGateway*

4. If required, specify the Software AG sagenv file that is to be used (an absolute path must be used). Example: /opt/softwareag/sagenv.new

   Note:
   If you do not have a sagenv file available, enter "skip".

5. If required, it is highly recommended that you enter "sag" at the next prompt. This is the user that will handle requests to the SOA Gateway. When prompted you may run `apachectl start` as root or sag, but this ensures that the requests will be handled as the sag user and permission problems

do not occur.

6. The script now has all the information to commence the installation. Follow the on-screen instructions to start Apache.