

Description: Guide to configuring GENESIS64 to connect to a remote license

OS Requirement: Windows Server 2003 x64/Vista x64/ Server 2008 x64/Windows 7 x64/ Server 2008 R2 x64

General Requirement: GENESIS64 v10.6 and an additional machine with .NET Licensing installed

Introduction

By default, a GENESIS64 installation is configured to look locally for its licensing. However, there is also the option to have the GENESIS64 Server look at a remote server for its license.

This application note explains how you can connect to remote license server in case you have the license in a different machine. This way, you can also share license between two or more machines. This is also useful if you are planning to designate a machine to be the license server and have all the other workstations (or servers) take the license from one central machine.

Pointing FrameWorX Server to a Remote License Server

The fastest and the easiest way to point a machine to retrieve license from remote license server is by editing the FrameWorX Server configuration. However, please note that this will point the whole FrameWorX configuration to the remote configuration, which means we are not only getting license information from remote machine, but also security configuration, aliasing configuration, etc. If you want to get only license from a remote license server, please follow the instruction in the **Connecting to Remote License Server Only** section.

To get to the FrameWorX Server configuration, you will need to open Workbench by going to Start → All Programs → ICONICS → Workbench. Inside Workbench, select File (from the menu toolbar), then go to **Tools → FrameWorX Server**.

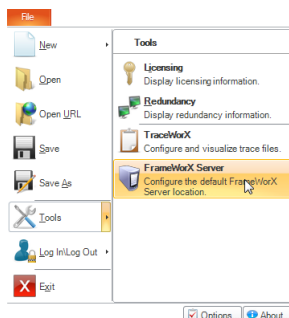


Figure 1 - FrameWorX Server in Workbench

In the window that opens up, you will just need to change the **Primary Default Server Node** to either the machine name or IP address of the remote FrameWorX Server. (This is the machine from which you will get your licensing, security, and all configurations). You can see that the port number is set to 8778 by default. If this port is blocked for any reason you can change it to a different unused port. You can also change the transport protocol between HTTP or NET.TCP.

The secondary default server name should be left blank unless you have a redundancy setup. If you are using redundancy then the primary default node will be the primary machine name (or IP address) and the secondary server name is for the designated secondary machine name (or IP address). Load balancing and Auto Switch back is checked by default and should be left checked unless suggested by technical support. Once you click OK, close and reopen Workbench. When Workbench reopens the changes should be in effect and all the license, security, aliasing, and FrameWorX configuration should now be retrieved from the remote machine stated in the Primary Default Server Node.

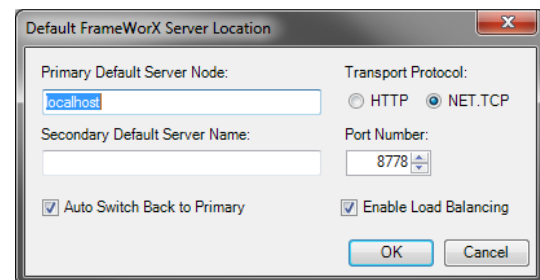


Figure 2 - FrameWorX Server Configuration

Connecting to Remote License Server Only

From the Workbench (Start → All Programs → ICONICS → Workbench) you should be able to select the **Tools** ribbon and then **Platform services Configuration**. At the bottom of this dialog there is the option to select **Use Remote License** as shown in Figure 3.

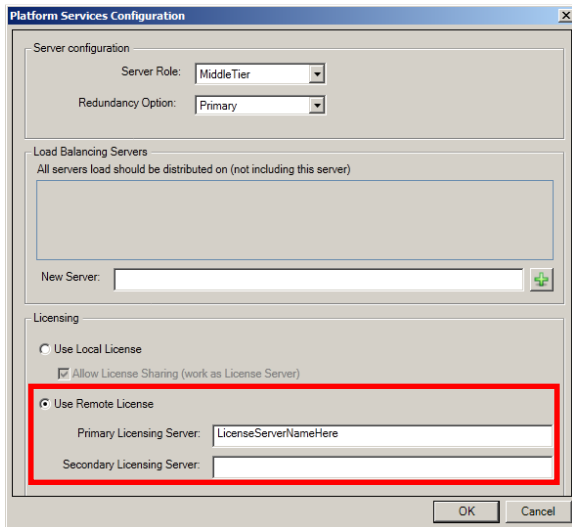


Figure 3 - Remote License from Platform Services Configuration

If you plan to use BACnet, ScheduleWorX, TrendWorX64 Logger, AlarmWorX64 Server, or Unified Data Manager providers you will need to perform the steps in the following section.

Licensing Server Configuration

On the machine that will host the license, you will want to make sure you have performed the following steps:

- Install ICONICS .NET Licensing which is part of the GENESIS64 installation
- Activate a valid license through the License Utility

For more information on licensing your server, please refer to the Licensing Help Documentation and Application Notes.

Next you will want to reset the ICONICS Licensing Service by opening a Windows Command prompt and enter the following commands:

```
cd C:\Program
Files\ICONICS\GENESIS64\Components\icolicensesservice
```

```
sc delete icolicensesservice
```

```
sc create icolicensesservice binpath= "C:\Program
Files\ICONICS\GENESIS64\Components\icolicensesservice.exe"
start= auto
```

GENESIS64 Server Configuration

Open the **IcoLicenseService.exe.config** file in **C:\Program Files\ICONICS\GENESIS64\Components**. You can open the file with any text editor such as Notepad.

With the file open, locate the following section:

```
<baseAddresses>
  <add baseAddress="net.tcp://localhost:8002"/>
</baseAddresses>
```

You will need to change the *localhost* to the remote license server's machine name (or IP address). After you change it, save the file, and restart ICONICS FrameWorX64 service on.

Now your license should be retrieved from remote license server configured in the file. To verify this, you can open the **License Viewer** from Start → All Programs → ICONICS Licensing → ICONICS .NET Licensing → License Viewer. Next to the **License Server Node Name** field you should now see the Remote License server name (or IP Address).

Troubleshooting your Remote License Configuration

If you are not able to successfully retrieve the remote license you will want to try the following tests:

Network traffic on port 8002 is open between both machines
Using Telnet Server and Client (a feature from Windows Components) you can open a command prompt on each machine and enter the following command:

```
Telnet ServerNameOrIPAddressHere 8002
```

You will want test your License Server looking at your GENESIS64 Server's name (or IP Address) and vice versa in the *ServerNameOrIPAddressHere* part of the command. If the connection is successful you should see the command prompt show a blank black screen meaning you are successfully connected and the port is open.

Windows Security is not allowing communication due to permissions

If both machines are on a domain, you will want to add a domain account to the local **Administrators** group on each machine.

Once the user is added, you will then want to reset the ICONICS License Service on the Licensing Server by performing the steps described in the previous section.

If you are still not able to successfully retrieve the remote license, please contact Technical Support.