



Deploying IronCAD Concurrent Licenses

Concurrent licensing controls the number of users and computers that can be licensed to run a protected application at the same time. This is implemented using client/server architecture over the customer's local area network. The process of deploying a concurrent user licensing system is outlined below.

Requirements

In the typical deployment, a concurrent licensing setup includes

- a computer to act as the *license server*,
- one or more *client* computers which will run the protected applications,
- a computer *network* which connects the clients with the server, and
- a valid set of *license codes* for the protected application running on the clients.

In order to deploy the concurrent licensing system, you will need the IronCAD License Server (ICLS) software installed on the server. The license serving software requires only that the computer be running either the Windows NT, 2000, or XP operating systems. Concurrent licensing is supported by all IronCAD products (version 5.0 Hotfix 2 or higher). You will also need the serial number/codeword from the attached Network License Manager Certificate, and the Hardware ID of the computer where the license server software is installed (server). **Please follow the instructions below to install the Network License Manager.**

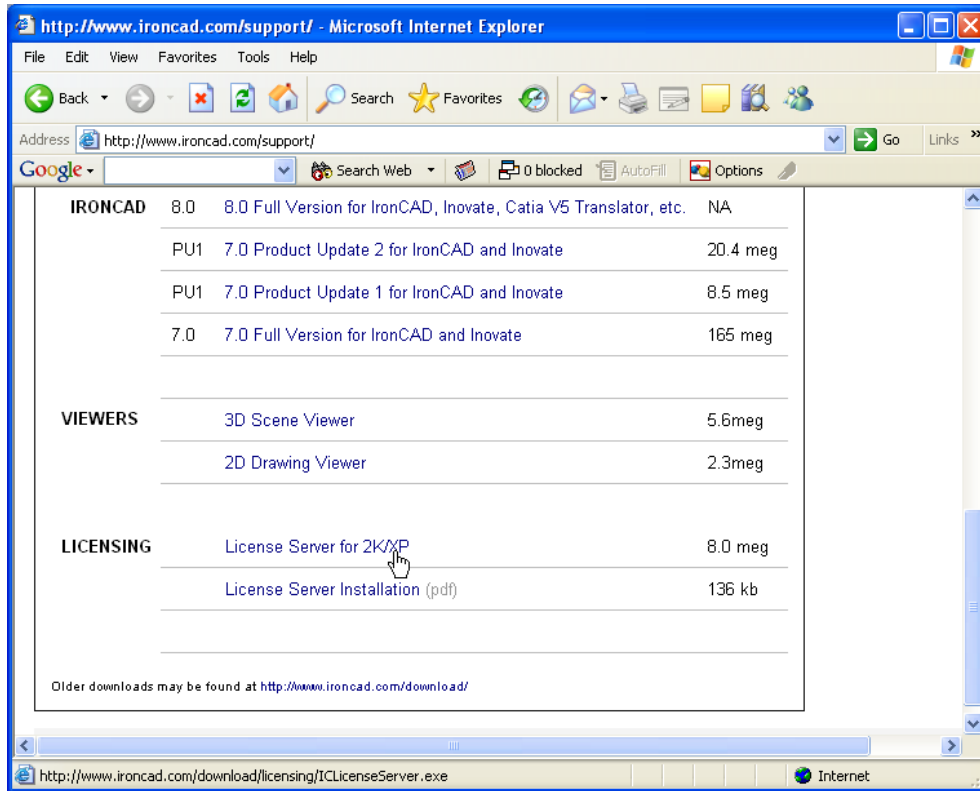
Installing the License Server Software

The first step in deployment is installing the two software components on their respective targets. Client machines should have IronCAD Design Collaboration Suite 2011 installed. The license server will need to have ICLS installed.

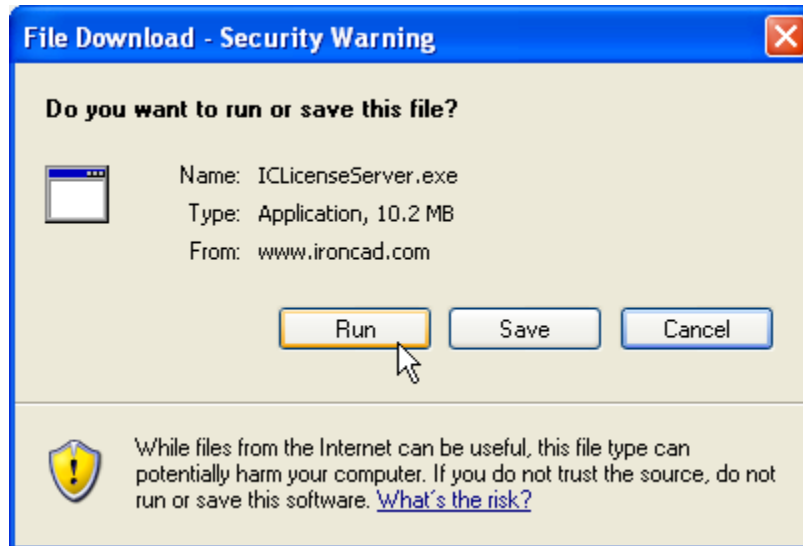
ICLS is a customized version of the SentinelLM 8.2.2 product from SafeNet Inc (<http://www.safenet-inc.com/>). ICLS should not be installed on a machine currently running another software vendor's implementation of the SentinelLM licensing system, without first verifying compatibility between the two versions. In some cases it may be possible to use the IronCAD license codes with an existing installation of SentinelLM. Detailed information on the SentinelLM product can be found in the SentinelLM System Administrator's Guide (SLM71sys.pdf) included in the installation of the IronCAD License Server.

The IronCAD License Server installation can be obtained from the IronCAD web site <http://www.ironcad.com/support/> under the Downloads area. Setup is run on the license server computer and should be straightforward. The installation program installs and automatically starts the SentinelLM service.

Step #1: Download the IronCAD License Server.



Step #2: Select the Run option to run the license server installation directly, or select the Save option to save the setup files to your local machine.

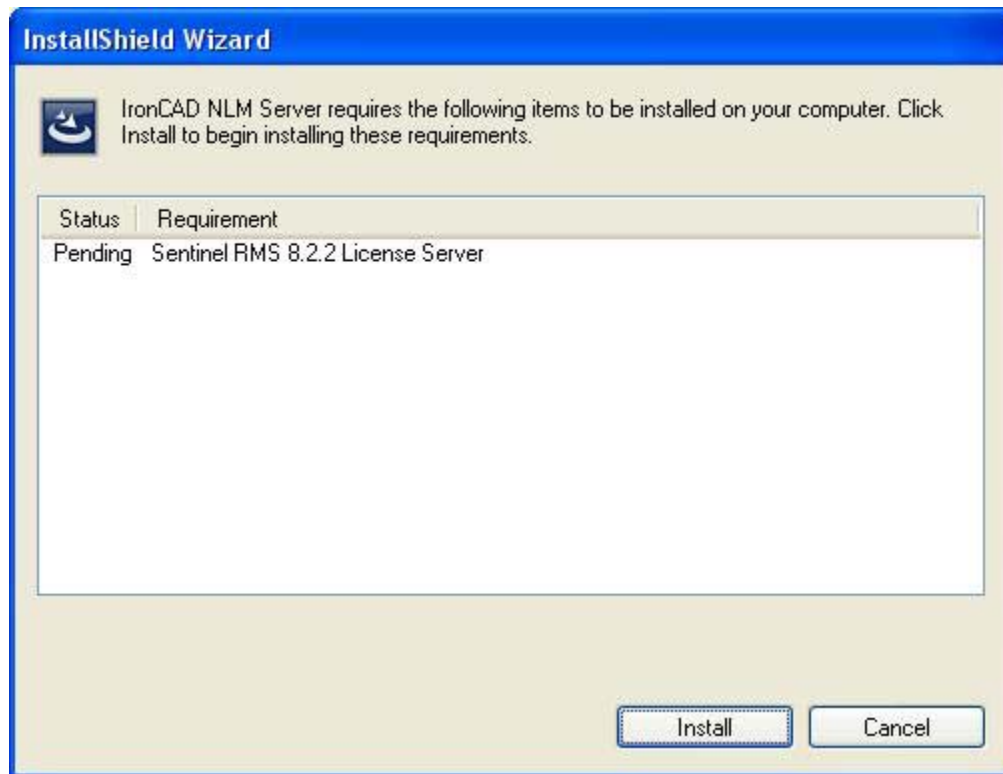


If you choose to run the setup directly from the download web page, you should see the IronCAD digital signature certificate.



Step #3: Start Installation.

The Sentinel RMS 8.2.2 License Server is installed first.

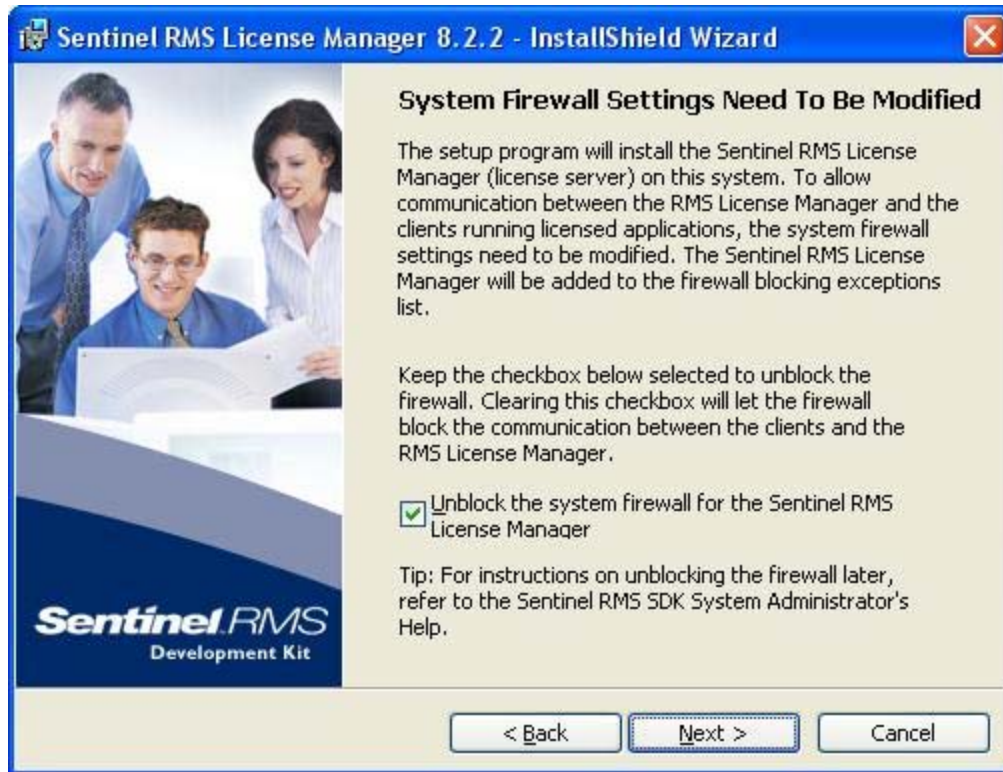


Step #4: Install Sentinel RMS License Manager.



Step #5: Unlock Firewall for License Server

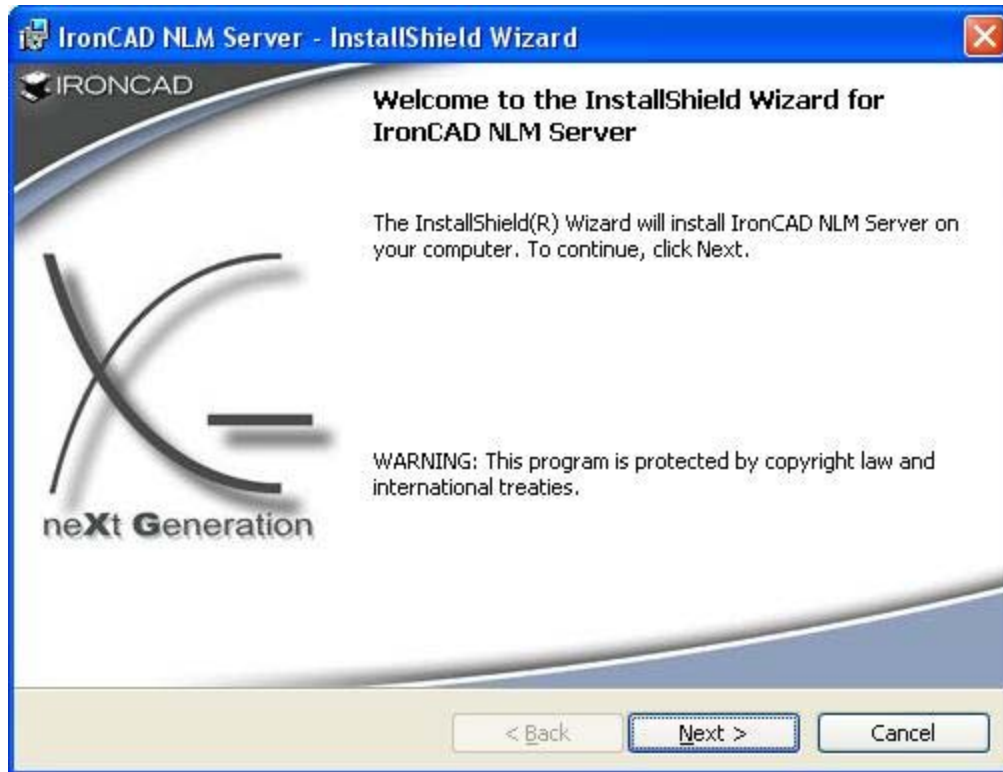
If the computer running the license server is running Windows XP with Service Pack 2 installed, or if you have a firewall installed on the server, it may be necessary to add the License Server to the list of firewall exceptions.



Step #6: Finish Sentinel RMS License Manager Installation.



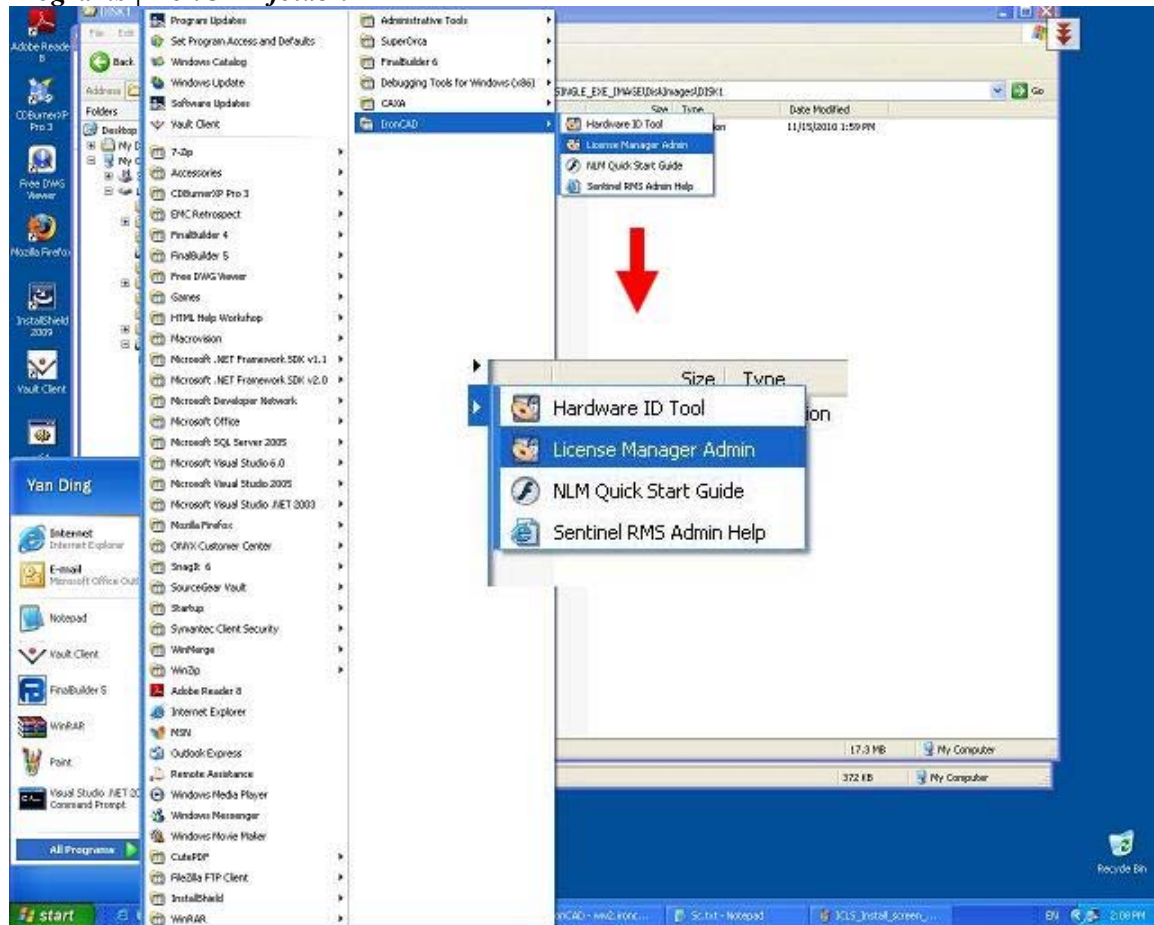
Step #7: Install IronCAD License Components.



Step #8: Once the setup completes, select the Finish option. It is possible that you will need to restart your computer as part of the setup process for the license server.



Once you have installed the license server, you should have four shortcuts under the Start | Programs | IronCAD folder.



Requesting License Files (and License Codes)

For the License Server to become operational, a *license code* for the protected application that is generated for the specific computer running the license server, needs to be created by IronCAD, LLC and installed on the server. The license rights you purchase are stored in electronic form as one or more *license codes*. A license code stores the maximum number of concurrent users of the application, on which computers it can be run, and the license expiration date if there is one. The license code is stored in a file that is readable by the SentinelLM software called the *license file*. Multiple license codes may be stored in a single license file.

Concurrent user licenses are locked to a specific server and cannot be installed on a server other than the targeted license server computer. The information used to identify a computer is called its *Machine ID* (or fingerprint). This information might include its network address, hard drive identification, or other types of identifiers. The first step in requesting a license code is to collect this information, which will be needed by IronCAD, LLC in order to generate your license. Additional license codes can be installed into the license manager after the initial license installation, in order to increase the number of seats licensed for each product.

To request a license file, first you need to get the hardware ID. Please follow those steps to get the hardware IDs.

- Run Hardware ID Tool from Start → All Programs → IronCAD → Hardware ID Tool on the License Server machine.
- Wechoid.exe should start to run.
- Deselect all check boxes under Locking Criteria.
- Select Disk ID check box
- Select New Style under Locking Data.
- Get Selector and Code data (The Selector should be 0x4).

The screenshot shows the Wechoid application window with the following settings:

| Locking Criteria | Value |
|---|-------------------|
| <input type="checkbox"/> IP Address | 192.168.1.48 |
| <input type="checkbox"/> ID PROM | |
| <input checked="" type="checkbox"/> Disk ID | 0xCF3EDFEB |
| <input type="checkbox"/> Host Name | DINGY32XP |
| <input type="checkbox"/> Ethernet Address | 00-19-B9-02-14-6C |
| <input type="checkbox"/> Computer ID | |
| <input type="checkbox"/> Standard Custom | |
| <input type="checkbox"/> Processor ID | |
| <input type="checkbox"/> Extended Custom | |

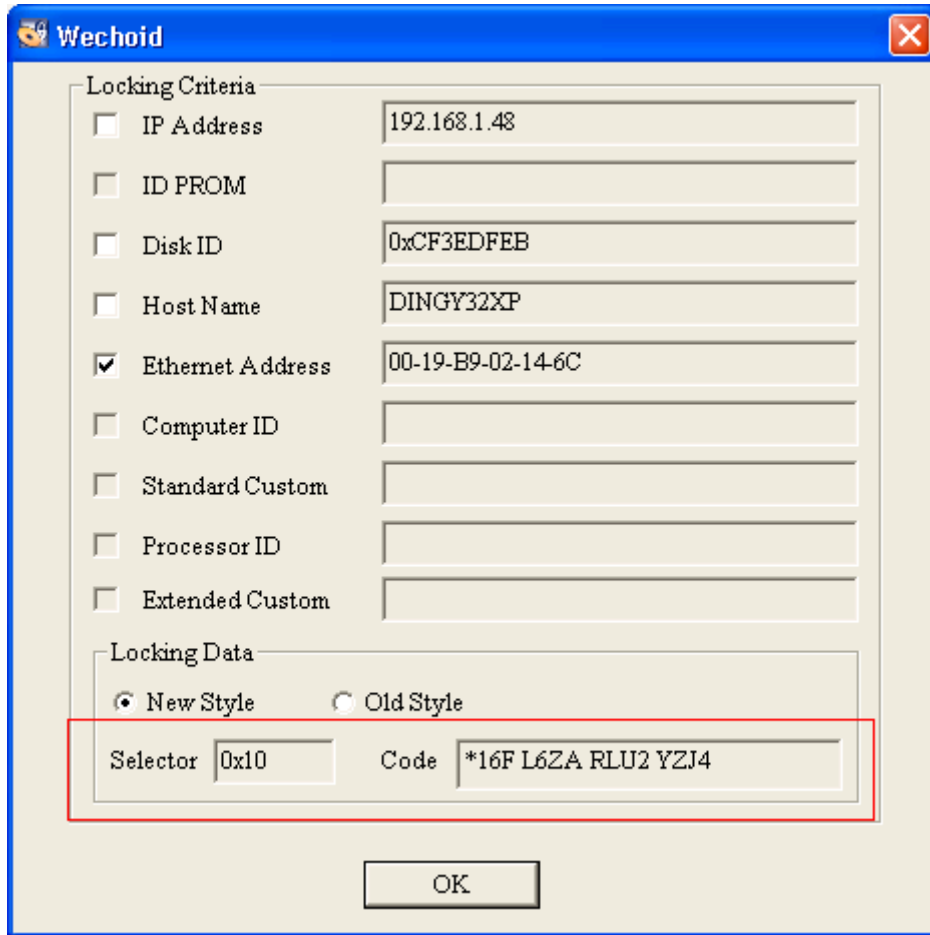
Locking Data:

New Style Old Style

Selector: 0x4 Code: *136 27AP CWRE BBLF

OK

- Repeat the process to use Ethernet Address (Selector 0x10).



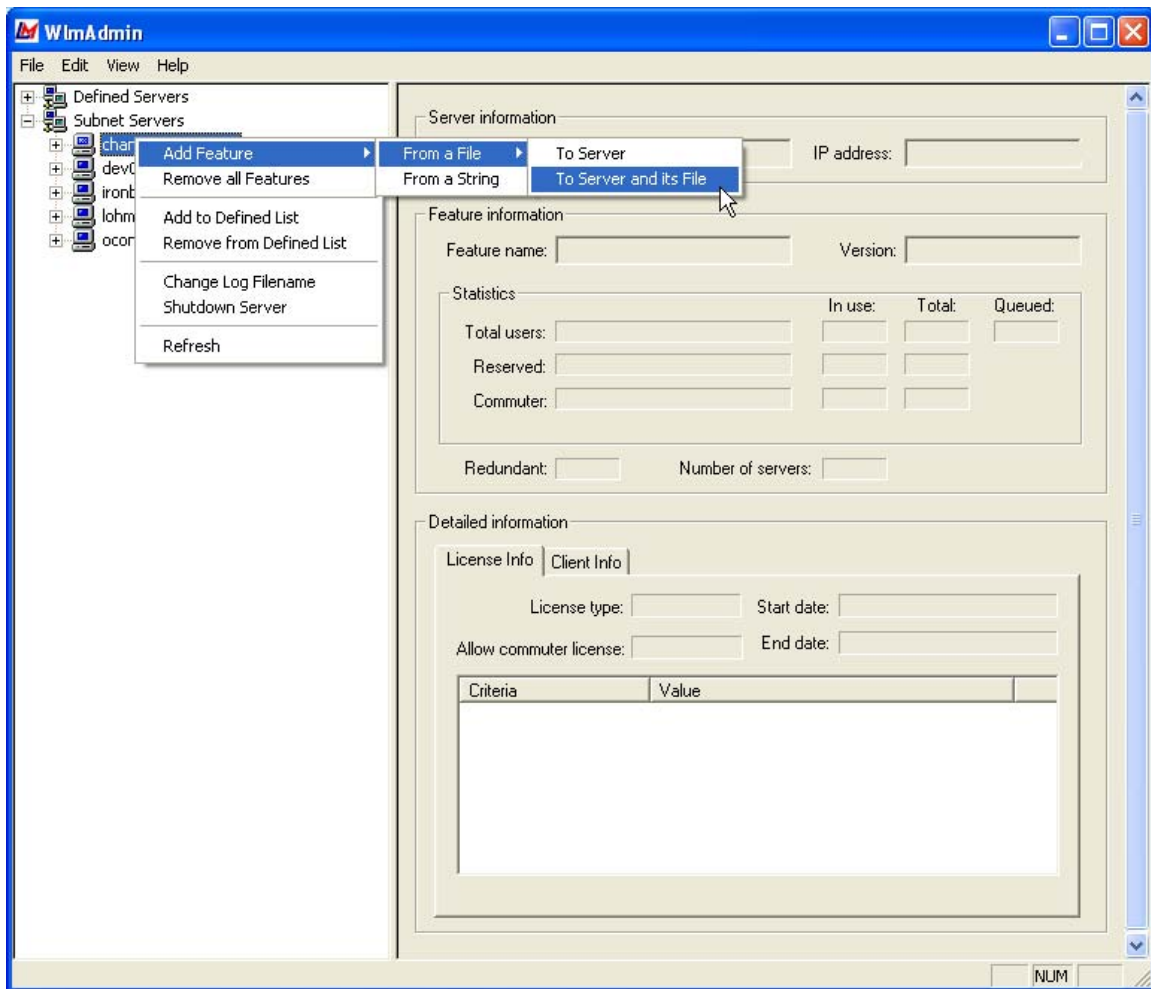
These two hardware IDs need to be sent to IronCAD to generate the license file.

To install the license code(s), please follow the instructions below.

Installing the License Code on the License Server

When you receive the license file, it must be installed on the license server machine as follows:

1. Save the file to a location accessible from the license server machine.
2. Using the start menu, select "Start → All Programs → IronCAD → License Server Admin" and the program WlmAdmin should start.
3. In the tree view browser on the left side of the WlmAdmin application window, expand "Subnet Servers". Your license server machine name should be listed. Right click your license server machine name and select: "Add Feature -> From a File -> To Server and its File" from the pop-up menu (**Error! Reference source not found.**). The Open File Dialog should appear.
4. In the Open File Dialog, select the license file saved in step 1. Click the "Open" command button to add the licenses from the file to the server. If the file has already been installed or the server's Machine ID codes do not match, the installation will fail.

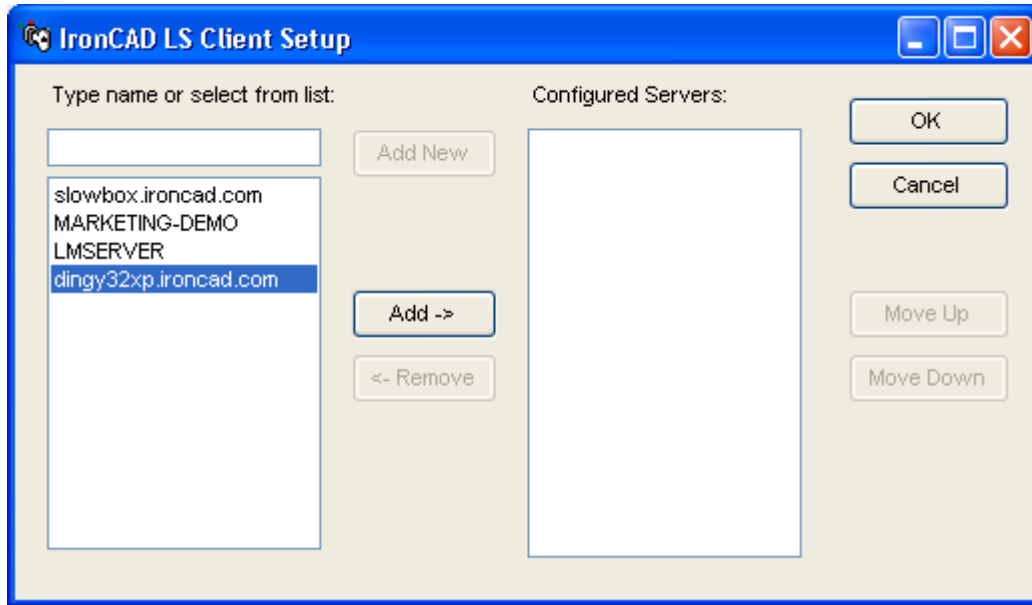


Following this step the license server machine configuration is complete. You can exit WlmAdmin now if desired. WlmAdmin can be used to monitor licenses that are currently in use.

Using the Client Configuration Tool

Setup to use Sentinel license on client (Computer with IRONCAD installed):

- Navigate to <IRONCAD_INSTALL_FOLDER>\bin folder and double click to run lsConfigClient.exe.
- Find the Sentinel license server and add it to the Configured server list (see picture below).



On the left is a list of the available license servers. The list-box on the right shows the list of servers which are currently configured for use by this client.

To add a server to the client configuration, select it in the left list and click the “Add->” command button. To add a server not found on the network, type the server name into the text field above the left list and click the “Add New” command button.

Remove a server from the configuration by selecting its name in the Configured Servers list on the right and click the “<- Remove” command button. The licensed application searches the Configured Server list from top to bottom when searching for a concurrent user license. The servers may be reordered in the Configured Servers list by selecting a server and clicking the “Move Up” or “Move Down” command button.

Using the Commuter License Tool

It is possible for a user to check-out a license from the license server for 1-180 days. The user will have a dedicated license, and can use the licensed product, even when disconnected from the license server network. When a concurrent license is checked out from a license server, the pool of available licenses will be reduced by one. Typically, this feature is useful for users who work on a laptop (or other portable computer) and can periodically connect to the license server’s subnet. In order to check-out (or check-in) a license, the client computer must be on the same subnet as the license server.

To begin using a commuter license, run the commuter licensing tool (WCommute.exe) from the “Start\Program\IronCAD or Inovate\ License Server Client \License Check-out Tool” command (Figure 1).

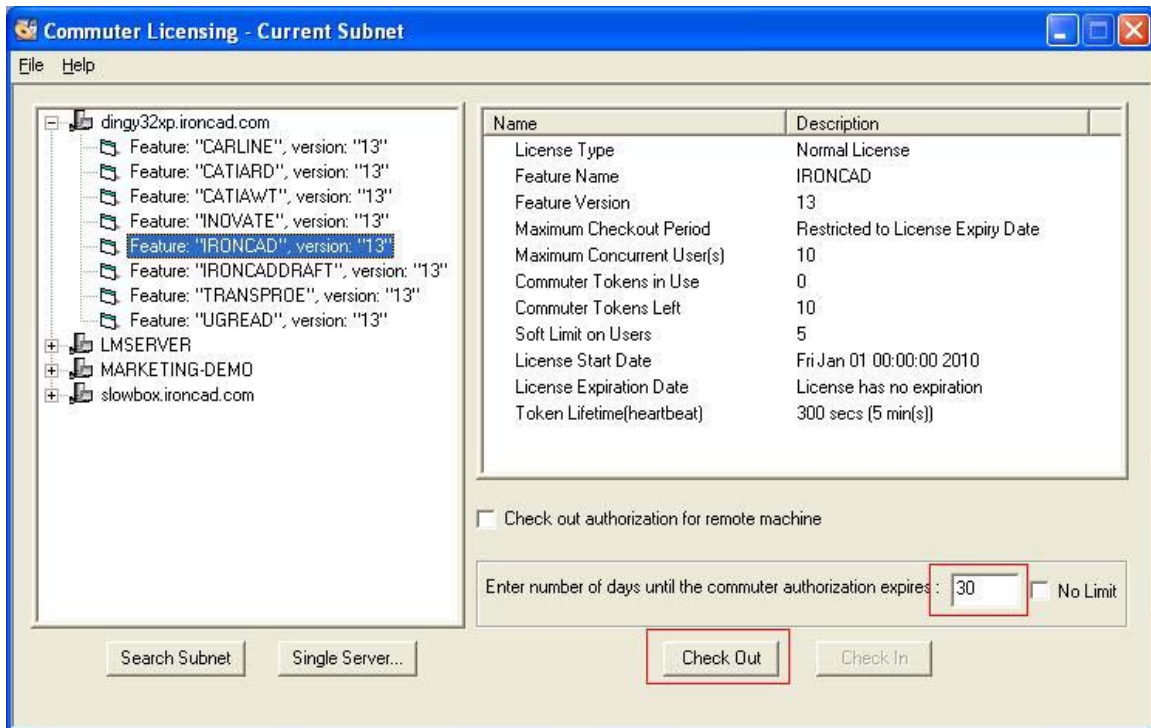


Figure 1

You have the option to either search the network for available licenses by selecting the “Search Subnet” command button, or choose a specific license server by selecting the “Single Server...” command button and typing the license server machine name or network address in the dialog and clicking “OK”.

To reserve a license, select the product or feature desired. Enter the number of days the license is needed and click the “Check Out” command button. A red check mark appears next to the product name to indicate you have a license for the product. To check in a license, simply select the product name that is checked out, and click the “Check In” command button.

Remote Commuter Licensing

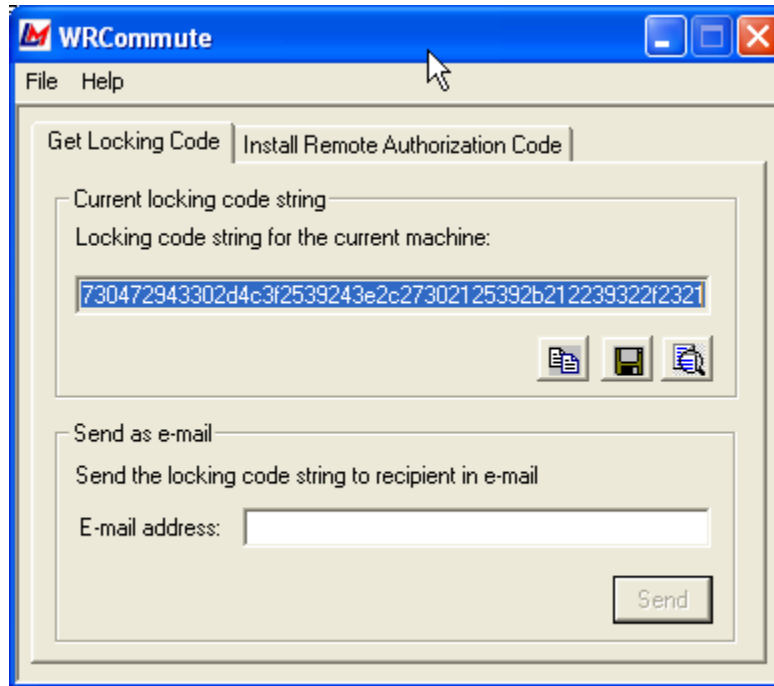
For cases where it is not possible for the client computer to connect to the network where a license server resides, it is still possible to check-out a concurrent license using the Remote Commuter Licensing tool WRCcommute.exe.

The general process for obtaining and installing a remote commuter license is as follows:

1. A remote user runs the Remote Commuter Licensing tool to generate a commuter locking code for the remote computer, and sends the commuter locking code to the network user who has access to the IronCAD license server.
2. The network user runs regular License Check-out tool (entering the remote user’s commuter locking code) to check out a remote commuter authorization, and sends it to the remote user.
3. The remote user runs Remote Commuter Licensing tool again, to install the remote commuter authorization he received from the network user.

Step #1: Getting a Remote Commuter Locking Code

The remote user must generate a commuter locking code for his or her remote computer and send it to the network user. Note that the commuter locking code is not the same as the Machine ID that is displayed by the Activation Wizard. To obtain the commuter locking code, the user should run the Remote Commuter Tool under the Start | Programs | IronCAD | License Server Client folder.

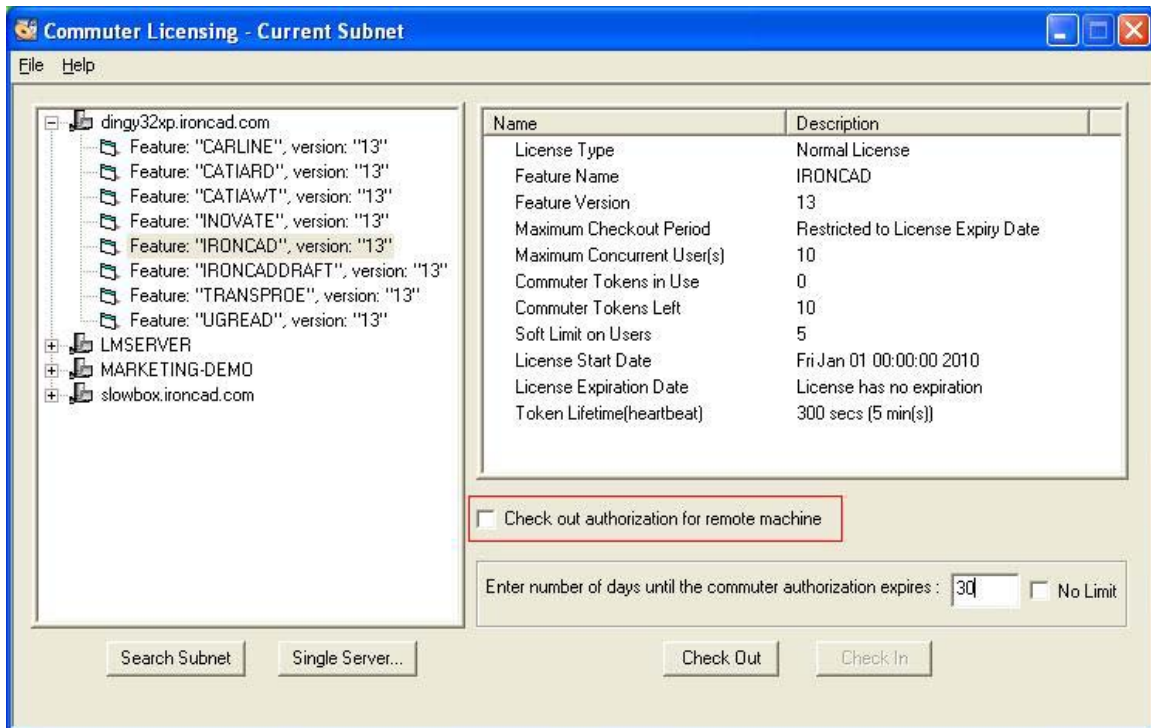


Under the Get Locking Code tab, the user will see the locking code string for the current computer. The utility gives the user several options for saving the commuter locking code in order to transmit it to the network user.

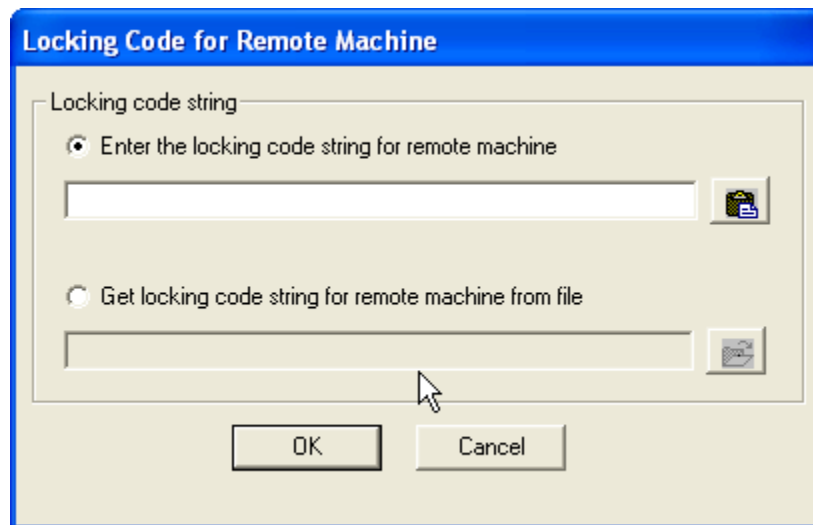
Step #2: Checking Out a Remote Commuter Authorization

The next step is to use the License Check-out Tool on a computer connected to the network containing the license server to check out a commuter authorization for the remote user. To check out a remote authorization,

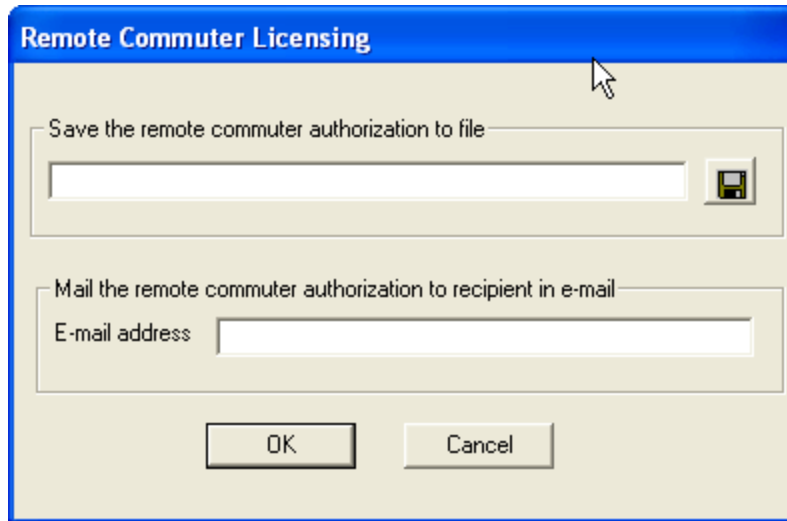
1. Run the License Check-out Tool and select the commuter authorization you want to use from the list of license servers as you normally would.
2. Select the Check out authorization for remote machine checkbox and click the Check Out button.



3. In the Locking Code for Remote Machine dialog, enter the commuter locking code string received from the remote user. You may enter the code by typing it into the entry box, pasting it from the clipboard, or reading it from a file.



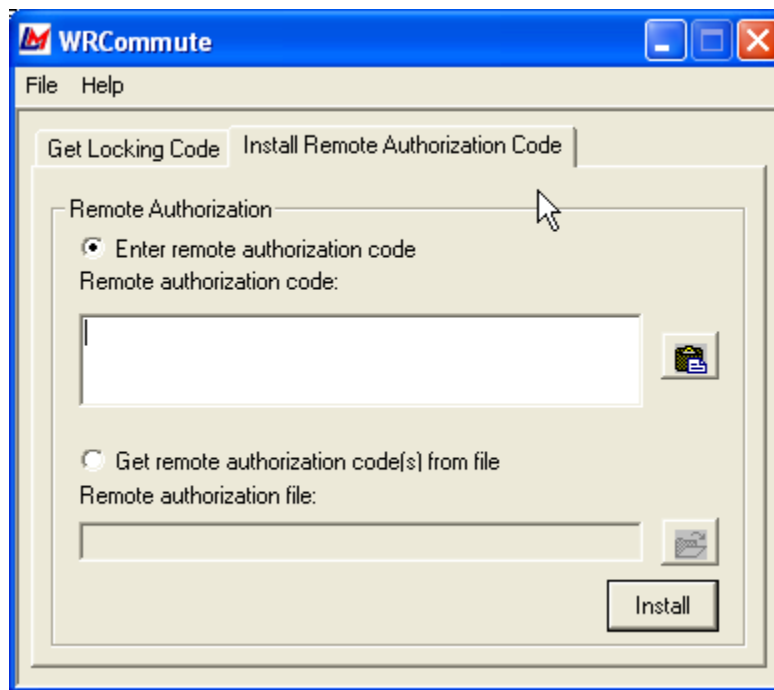
4. Click OK. Next the network user will see the Remote Commuter Licensing dialog which will allow the user to either save the remote commuter authorization to a file, or email it.



Step #3: Installing a Remote Commuter Authorization

Once the commuter authorization has been checked out for the remote user and sent to him or her, the remote user needs to install it. Note that a remote commuter authorization cannot be checked back into the license server, but will simply expire on the remote computer after the number of days specified in the License Check-out Tool.

To install the remote commuter authorization, the user will run the Remote Commuter Tool and select the Install Remote Authorization Code tab. Again, the user has the option of several different ways to enter the authorization code. Once the code is entered, the user selects the Install button.



For additional details on Commuter Licensing (and other features of the SentinelLM License Manager) please see the SentinelLM System Administrator's Guide that is included in the IronCAD License Server installation.