

# **License Manager**

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## **ISaGRAF - License Manager**

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# Licensing

**ISaGRAF** enables you to build control applications made up of virtual machines running on hardware components, called target nodes. **HiBeam** enables you to create screens, i.e., graphical user interfaces consisting of HTML pages with Java applets, from which you can monitor or run control processes either from a local computer or a remote location, i.e., via a network or the Internet. You link these screens with control projects created in the Workbench.

You can use **ISaGRAF** components for a trial period of 30 days before requiring licensing. When not licensed, the alarms and events option will run for a period of one hour. To have a fully operational version of the product, you need to license it.

When using third-party library projects, you need to enable their use by licensing them. However, you initiate the licensing of these projects from within the Workbench either when adding the dependency or at any other time.

Licensing is available as dedicated licenses or floating licenses. Dedicated licenses are installed on a specific computer running **ISaGRAF**, whereas, floating licenses are distributed across a network for use with any computer running **ISaGRAF**, to a maximum of the number of licenses at any given time. You can combine dedicated and floating licenses on a network.

For dedicated licenses, you can license using either a hardware or software key. When using a hardware key, a dongle which you place on the parallel or USB port of the computer running **ISaGRAF** is delivered pre-programmed with the selected feature set. For floating licenses, you can also license using either a hardware or software key. When using a hardware key, a dongle which you place on the parallel or USB port of a network computer, is delivered pre-programmed with the number of floating licenses of the selected feature set. When using a software key for dedicated or floating licenses, you need to obtain an authorized license. You license products in the License Manager.

**Note:** When using a hardware key for a dedicated license from previous versions, you need to have the dongle reprogrammed to use this latest version.

**ISaGRAF** and **HiBeam** are available as feature sets. For **ISaGRAF**, the available sets are:

- Essential, one Workbench and one run-time module running a single virtual machine
- Multiscan, one Workbench and one run-time module running multiple virtual machines
- Distributed, one Workbench and multiple run-time modules running multiple virtual machines

For **HiBeam**, the available sets are one resource having up to 128 variables, one resource having an unlimited number of variables, one configuration, or unlimited.

Although licenses are only valid on a single computer, you can transfer them from one computer to another.

#### **To access the License Manager**

- From the Start menu of Windows, choose **Programs**, then **ISaGRAF Products**, then **Licensing**.

# Adding Licensing

You can obtain authorized dedicated and floating licenses for **ISaGRAF** components.

## To obtain authorized licenses for ISaGRAF components

You need only one set of user codes and registration keys when licensing **ISaGRAF**, Alarms and Events, **HiBeam**, and the NT target.

1. On the Add Licensing tab, from the list of available components, select the components requiring licensing.
2. Click **—>** to move your selection to the list of Selected Components.

For **ISaGRAF**, you will be prompted to select a feature set: Essential, Multiscan, or Distributed. For **HiBeam**, you will also be prompted to select a feature set: one resource having up to 128 variables, one resource having an unlimited number of variables, one configuration having an unlimited number of resources and variables, or unlimited, having an unlimited number of configurations, resources, and variables.

A setup code and user codes appear in their respective fields.

3. Send the licensing information:

- a) Click **Send**.

A pre-addressed email appears holding the setup code and both user codes into which you need to include your contact information and purchase order number. For additional purchases, you need to provide a credit card number.

- b) Include all required information then send the email. When ordering floating licenses, also include the number of license servers and the number of floating licenses.

The original setup code and user codes as well as registration keys will be returned via e-mail.

4. Upon reception, make sure the setup and user codes are the same as those in the License Manager window, then copy and paste the registration keys in their respective fields.

**5. Click Proceed.**

If licensing is successful, **ISaGRAF** and the other selected components appear greyed in the Selected Components list.

When licensing is complete, stop then restart **ISaGRAF** and the other newly licensed components.

# Updating and Upgrading Licensing

You may need to update software or hardware licensing when passing from a previous version to a more current one. You can also upgrade licensing to change feature sets. When using a hardware key, you need to have the dongle reprogrammed (remote updating and upgrading is available).

## To update or upgrade licensing

Updating licensing is the same for both software and hardware licenses. Upgrading hardware licenses is also the same as updating licensing. For software upgrades, you need to remove the previous license then add the license with the new feature set.

1. From the Start menu of Windows, choose **Programs**, then **ISaGRAF Products**, then **Licensing**.

On the Add Licensing tab, note that the previously licensed components are listed in the Selected Components list.

2. Send the licensing information:

- a) Click **Send**.

A pre-addressed email appears holding the upgrade setup code and both user codes into which you need to include your contact information and purchase order number. For additional purchases, you need to provide a credit card number.

- b) Include all required information then send the email.

The update setup code and user codes as well as a registration keys will be returned via e-mail.

3. Upon reception, make sure the upgrade setup and user codes are the same as those in the License Manager window, then copy and paste the registration keys in their respective fields.

4. Click **Proceed**.

The more recent version of the selected components are available for use.

# Transferring Licensing

You can transfer licensing for **ISaGRAF** and other licensed components from one computer to another.

## To transfer a license to a new computer

Transferring a license from one computer to another requires creating a license transfer disk, then removing the license from the currently licensed computer and copying it to this transfer disk before it can be installed on the new computer. The floppy disk must be formatted and blank.

1. From the new computer, prepare the license transfer disk:
  - a) Install the licensed components to transfer.
  - b) Insert a floppy disk in the computer's drive.
  - c) From the Start menu of Windows, choose **Programs**, then **ISaGRAF Products**, then **Licensing**.
  - d) On the Transfer License tab, select the drive holding the floppy disk, then click **Create Transfer Disk**.

The license transfer disk is created.

- e) Remove the license transfer disk from the new computer's drive.
2. Transfer the licenses from the currently licensed computer to the license transfer disk:
  - a) In the currently licensed computer's drive, insert the license transfer disk.
  - b) From the Start menu of Windows, choose **Programs**, then **ISaGRAF Products**, then **Licensing**.

- c) On the Transfer License tab, select the drive holding the transfer disk, then click **Transfer Licenses to Disk**.

The licenses are removed from the computer and copied to the license transfer disk.

- d) Remove the license transfer disk from the computer's drive.

3. Install the license on the new computer:

- a) In the new computer's drive, insert the license transfer disk holding the licenses.
- b) From the Start menu of Windows, choose **Programs**, then **ISaGRAF Products**, then **Licensing**.
- c) On the Transfer Licensing tab, select the drive holding the transfer disk, then click **Complete Transfer**.

The licenses are transferred to the new computer and transferred components are activated.

# Removing Licensing

You can remove authorized licenses from a computer.

## To remove authorized licenses

1. From the Start menu of Windows, choose **Programs**, then **ISaGRAF Products**, then **Licensing**.
2. On the Remove Licensing tab, from the list of licensed components, select the components for which you want to remove licensing.
3. Click —> to move the components to the list of Selected Components.

A setup code as well as user codes appear in their respective fields.

4. Send the licensing information:

- a) Click **Send**.

A pre-addressed email appears holding the setup code and user codes and into which you need to include your contact information and order number.

- b) Include all required information then send the email.

A user code as well as registration keys will be returned via e-mail.

5. Upon reception, enter the user code and both registration keys into their respective fields, then click **Proceed**.

A confirmation code appears in the Confirmation Code field.

6. Reply to the email including the Confirmation Code as well as your name, address, and telephone number.

# Setting Floating Licenses

When using floating licenses with **ISaGRAF**, you need to set a primary license server on the network. You can choose to add a secondary license server on the same network. You set primary and secondary license servers by specifying the IP address of the computer on which each server is installed and the port number to use and whether to manually or automatically start the server. You also need to specify the IP addresses of the license servers for each **AADvance** instance that uses the floating licenses. While running license servers, you can obtain a report providing information about the license servers such as their IP address and license usage.

The primary and secondary servers cannot simultaneously distribute licenses across a network.

You can start license servers from the License Manager, from a command line, or from a scheduled task.

## To set floating licenses

1. On the computers running the primary and secondary license servers, indicate the IP address and port information:
  - a) From the Start menu of Windows, choose **Programs**, then **ISaGRAF Products**, then **Licensing**.
  - b) On the Set Floating Licenses tab, specify the IP address and port for the primary license server, then specify whether to start and stop the server manually or automatically.  
  
When choosing to manually start and stop the license server, you need to click **Start Server**.
  - c) To use a secondary license server, specify the IP address and port for the secondary server, then specify whether to start and stop the server manually or automatically.
2. On each computer running an **AADvance** instance, specify the IP address of the primary and secondary license servers.
  - a) From the Start menu of Windows, choose **Programs**, then **ISaGRAF Products**, then **Licensing**.

- b) On the Set Floating Licenses tab, specify the IP address of the primary and secondary license servers.
3. To obtain a report providing information about the license servers and license usage, click **Report**.

### **To start license servers from a command line or a scheduled task**

The primary or secondary license server can be started from a command line. The following examples indicate the starting of the primary and secondary license servers where these are installed in the default location.

```
"C:\Program Files\ICS Triplex ISaGRAF\Shared\  
Licensing\LicenseManager50.exe" -AutoPrimary
```

```
"C:\Program Files\ICS Triplex ISaGRAF\Shared\  
Licensing\LicenseManager50.exe" -AutoSecondary
```

The primary and secondary license servers can be started from a scheduled task to run at system startup. Each server requires its own task.

1. From the Control Panel, access **Scheduled Tasks**, then **Add Scheduled Task**.
2. In the Scheduled Task Wizard, follow the on-screen instructions to set the LicenseManager50.exe program to start when the computer starts.
3. When the task is created, in the Scheduled Tasks section of the Control Panel double-click the new task.
4. In the Run field, define the command line for the primary or secondary license server.

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