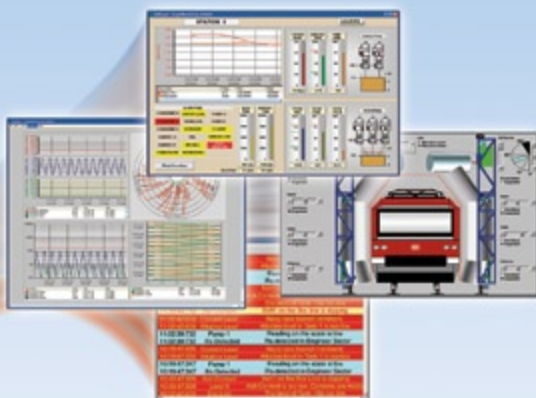


GENESIS 32™

GETTING STARTED



Connect, Analyze, Visualize



Visualize Your Enterprise™

GENESIS32
Getting Started
Version 9.22

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1 GENESIS32 ARCHITECTURE

1.1 Introduction

Welcome to ICONICS GENESIS32™, a powerful SCADA (Supervisory Control and Data Acquisition) and HMI (Human Machine Interface) tool that takes maximum advantage of all key features of Microsoft® Windows® operating systems. GENESIS32 provides the most open, scalable, easy-to-use and extensible solutions for most industrial automation and manufacturing applications. This *Getting Started* manual explains how you can:

- Install the GENESIS32 software.
- Authorize a GENESIS32 software license.
- Navigate the Gen32 Demo.
- Use the GENESIS32 quick start tutorials to create a simple project with graphics, trends, and alarms.
- Access online help and technical support.

Note: This manual is an abbreviated version of the full *GENESIS32 Getting Started* Help documentation, which is available on the GENESIS32 Product DVD in help file format.

1.2 What Is OPC?

OPC is a standards-based approach for connecting data sources (e.g., PLCs, controllers, I/O devices, databases, etc.) with HMI client applications (graphics, trending, alarming, etc.). Originally the acronym stood for OLE for Process Control; but more recently the term has been phased out in favor of Data Access Specification or altered to indicate that OPC stands for “openness”, “productivity”, and “communications.”

OPC enhances the interface between client and server applications by providing a universally supported and well-documented mechanism to communicate data from a data source to any client application. Included are not only a detailed guide on how to pass the data, but also specific information on other attributes to supplement those data, such as range information, data type, quality flags, and date and time information.

Figure 1.1 shows the OPC Architecture, which was introduced by the OPC Foundation. By following the OPC Architecture, a device needs only one standard driver, which is an OPC-compliant server. All OPC-compliant client applications can then be connected to that device, either locally or over a network. Furthermore, connections can be made to more than one OPC server at the same time.

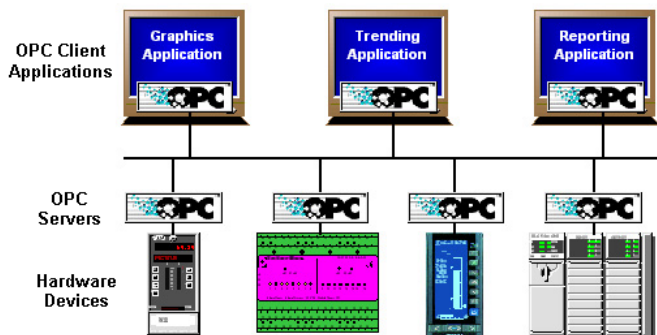


Figure 1.1. OPC-Based Client-Server Architecture

Any OPC client application can connect to any OPC server. In other words, OPC offers true Plug-and-Play capability in the fields of HMI and industrial automation. OPC server types include OPC Data Access (DA), OPC Alarm and Events (AE), and OPC Historical Data Access (HDA).

1.3 What Is GENESIS32?

ICONICS offers the following stand-alone OPC client applications for graphics, data collection and trending, alarming, and scheduling:

- **GraphWorX™32:** OPC visualization and HMI product with extensive Symbol Library
- **TrendWorX™32:** OPC real-time trending and data historian
- **AlarmWorX™32:** OPC alarm summary viewing, logging and reporting

- **ScheduleWorX™32:** Schedule the automatic downloading of OPC values

Each of these client applications is an ActiveX® container featuring Internet/intranet-ready object technology and offering Microsoft's powerful Visual Basic® for Applications (VBA) technology.

Workbench32™ is the centralized Web-based environment for GENESIS32 product configuration and runtime operations. The Workbench also provides a framework for multimedia technology to configure alarms, and project management. Workbench can load various providers or plug-ins that read and write to SQL or system databases, works with Multimedia alarm notifications, loads configuration forms that can start and stop services, set environmental variables and more. The key elements of the Workbench are that it provides a browsing function, a display or design function, and a command set through the toolbar and menus that can be swapped out when a new provider is loaded. The Workbench also provides a framework for project management.

Among the providers that can currently be utilized within the Workbench32 environment are (listed alphabetically):

- **AlarmWorX32 Logger Configurator**
- **AlarmWorX32 Multimedia Configurator**
- **AlarmWorX32 Server Configurator**
- **BACnet Configurator**
- **BridgeWorX Configurator**
- **DataWorX32 Configurator**
- **GENESIS32 Navigator**
- **GENESIS32 Navigator Runtime**
- **Global Aliasing Configurator**
- **Language Aliasing Configurator**
- **Modbus Ethernet OPC Server Configurator**
- **Modbus Serial OPC Server Configurator**
- **ReportWorX Configurator**

- **ScheduleWorX32 Configurator**
- **SNMP Connector**
- **TrendWorX32 Logger Configurator**
- **Unified Data Manager Configurator**

For more information on Workbench32 or any of the providers listed above, see the component's Help file included on the GENESIS32 install disc.

GENESIS32 Automation Suite™ is a collection of these software components that provides a complete solution for HMI/SCADA software applications. In addition to the above four main modules, GENESIS32 includes the following applications:

- **ProjectWorX™32:** Management, collaboration and deployment of GENESIS32 projects
- **DataWorX™32:** OPC data bridging, OPC aggregation, OPC tunneling, and OPC redundancy
- **ScriptWorX™:** Centralized periodic and event scripting with multi-threading VBA
- **TraceWorX™32:** XML-based audit trail diagnostics and debugging utility
- **VCRWorX™32:** Graphical and visualization playback of historical alarms and data
- **WebHMI™:** Web-based real-time automation and visualization software
- **AlarmWorX32 Multimedia™:** Multimedia OPC alarm management software
- **Unified Data Manager:** Enables the centralized management of commonly used expressions, value sets, tag groups, alarm subscriptions, alarm filters, recipes, and event triggers across GENESIS32 products as well as other ICONICS products
- **OPC Servers:** Various OPC servers commonly used with GENESIS32

Many other important tools and utilities are also installed with GENESIS32, including Screen Manager, OPC DataSpy™, GenBroker™, GenTray™, MonitorWorX™, Security Server, Unified Data Browser, Expression Editor, Global Aliasing Configurator, Language Aliasing Configurator, Data Mining Configurator, and SNMP Configurator.

Figure 1.2 illustrates how these components fit together within the OPC automation architecture. For more information about ICONICS products, please visit the ICONICS Web site at www.iconics.com.

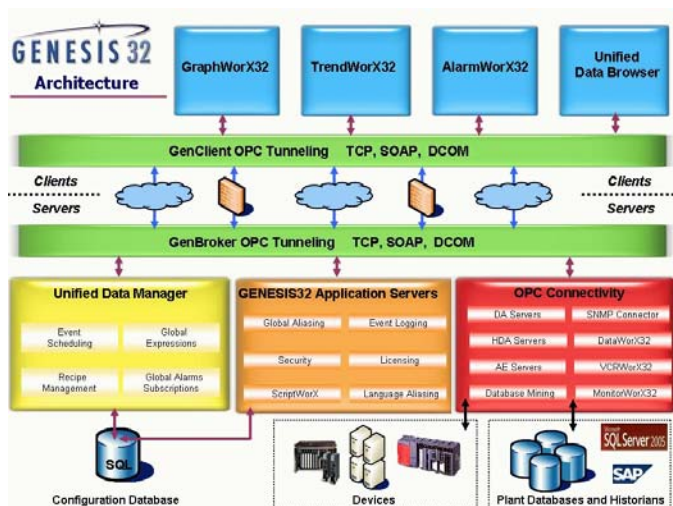


Figure 1.2. GENESIS32 Architecture

GraphWorX32

GraphWorX32 is a stand-alone OPC client software package for Human Machine Interface, providing a rich set of tools for creating animated graphics. This is where the visualization of the process is created for the operator interface. GraphWorX32 combines drawing, operating procedures, quality reporting, and management directly into your operator displays using your choice of ActiveX Controls and Visual Basic for Applications (VBA) scripting language. For additional information about GraphWorX32, please see the Help documentation for this application.

TrendWorX32

TrendWorX32 is a stand-alone OPC client software package for collecting real-time data, logging data to a database, trending both real-time and historical data, while providing a powerful set of reporting and analysis tools. TrendWorX32 offers an open solution to applications requiring scalable and distributed real-time performance using the latest OPC HDA specification for creating Plug and Play historical data servers and clients. For additional information about TrendWorX32, please see the Help documentation for this application.

AlarmWorX32

AlarmWorX32 is a stand-alone OPC client software package for distributed enterprise-wide alarm and events. It is a complete alarm management system. You can network enterprise-wide alarm management for detecting, sorting, filtering, viewing, reporting, and acknowledging OPC server alarms and events. For additional information about the AlarmWorX32, please see the Help documentation for this application.

ScriptWorX

ScriptWorX is a powerful stand-alone application that allows the creation and management of Visual Basic for Applications (VBA) scripts. ScriptWorX's unique multi-tasking, multi-processor environment allows multiple scripts to run concurrently. User-defined VBA scripts can perform OPC read-and-write operations to any OPC server, which interfaces to factory floor devices such as PLCs and other OPC-compliant servers.

ScriptWorX simultaneously performs calculations, manages databases, and executes any operation available in the VBA language to access reports or perform recipe operations. ScriptWorX32 also offers project-level scripting as part of GENESIS32. For additional information about ScriptWorX, please see the Help documentation for this application.

ProjectWorX32

GENESIS32 contains numerous applications with multiple components, requiring a well-trained user in order to successfully create, integrate, deploy, and manage projects. Each of these components requires complex setup of many different types of configuration files, databases, and OPC servers, as well as runtime and security settings. To simplify the management and deployment of the broad spectrum of GENESIS32 applications, **ProjectWorX32** integrates all GENESIS32 applications into a single, easy-to-manage format. The ProjectWorX32 user interface is basically a container embedded in the Microsoft Management Console (MMC). The ProjectWorX32 console conveniently consolidates all of your GENESIS32 files in one easily accessible location, enabling you to:

- Organize all GENESIS32 application files into separate projects.
- Create new GENESIS32 application files and OPC server configurations.
- Import application files into projects.
- Start and stop GENESIS32 applications.

- Pack project files into a single, compressed file, and unpack project files for easy deployment to multiple computers.
- Activate entire projects into runtime mode.
- Control the layout of windows using the Screen Manager.
- Configure security settings to password-protect projects.
- Back up project files to Microsoft Visual SourceSafe.
- Search for and replace machine names and OPC tags throughout all project files using a global find/replace utility.
- Publish projects to the Web.
- Control and monitor runtime functions for all applications using GenTray.
- Launch GENESIS32 system tools.
- Generate comprehensive reports for all files and projects.
- Import and manage third-party applications. (Note: For information about adding third-party applications to ProjectWorX32, please contact info@iconics.com.)

For additional information about ProjectWorX32, please see the Help documentation for this application.

VCRWorX32

VCRWorX32 is a powerful tool in GENESIS32 that enables the replay and reanimation of graphical, historical and alarm data. Features of VCRWorX replay include:

- Replay of OPC data.
- Reanimation of graphics.
- Re-plotting of trends.
- Replay of alarms.
- See what the operator saw through replay of graphical displays.
- VCRWorX Control Panel with customizable skins/layouts.
- Change the replay speed.
- Specify time and date ranges for data replay.

- Search for key events, tags, and expressions.
- Customize the layout and appearance using skins.

For additional information about VCRWorX32, please see the Help documentation for this application.

Data Mining

GENESIS32 data mining enables visualization of data from various data sources, such as a Microsoft Access database, in a customizable, user-friendly display format that enables users to interact with and manipulate the data. The Data Mining Configurator establishes connections with data sources that can be mined from GENESIS32 applications, such as GraphWorX32, where users can visualize data. Key features of data mining include:

- Brings database access to any OPC client.
- Supports many data sources, including Microsoft Access, Microsoft SQL Server, Microsoft Excel, MSDE, SAP, and Oracle.
- Easy-to use dataset support includes database table access (single field read or write, column read or write, row read or write, and two-dimensional array read or write) as well as simple SQL commands.
- Data manipulators enable access to database stored procedures and execution of complex SQL commands.
- Database Connection Wizard.
- Database object browser.
- Support for aliasing (one data tag can access multiple database fields).
- Data Mining (grid) ActiveX control.
- Data Mining Configurator.
- Integration of data-mining configuration into Unified Data Browser.

For additional information about Data Mining, please see the Help documentation for this application.

Screen Manager

The **Screen Manager** is a utility for managing the layout of the displays used for the operator interface. The Screen Manager supports configuration not only for a single computer monitor, but also for a multiple-monitor system, allowing definitions of various layouts to fill the screen(s). The Screen Manager not only supports the GENESIS32 application documents, but third-party documents as well (e.g., placement of a CAD drawing or a Microsoft Word document). For additional information about the Screen Manager, please see the Help documentation for this application.

DataSpy

OPC DataSpy is a utility for connecting to OPC servers, serving as a test application and also as a convenient tool for viewing OPC information. It can test OPC Data Access-compliance, as well as OPC Alarm and Events compliance. The analysis tools provided aid in quickly trouble-shooting third-party drivers. For additional information about OPC DataSpy, please see the Help documentation for this application.

GenBroker

DCOM is the method of communication for GENESIS32. There are, however, certain disadvantages to using DCOM. To overcome DCOM timeout problems, for example, it was necessary to eliminate Windows callbacks and reduce the number of different function calls over Windows DCOM communications.

DCOM's major disadvantages are:

- Its complex settings often make its configuration ineffective when the client is remote.
- It does not work well across NT domains.
- Its connection over slow and unreliable networks (e.g., the Internet) is practically impossible.
- It is not easy to configure to pass through firewalls.

In response to these difficulties, ICONICS has enhanced GENESIS32 with **GenBroker**, a proven, high-speed communications utility. Employing a network of applications, GenBroker uses TCP/IP and SOAP/XML channels to achieve real-time and secure communications between Web browser clients and WebHMI servers. Everything except the method of communication remains the same as before. For additional information about GenBroker, please see the Help documentation for this application.

Security Server

The **Security Server** manages access rights to users and groups of users within the GENESIS32 suite of applications. A configuration tool permits creating custom groups and assigning individuals to those groups (users can be assigned to more than one group). Various product features can then be restricted, based on who is logged into the computer during **Runtime**.

Configures such items as:

- Basic, advanced, and NT-integrated security modes.
- Alarm access restrictions.
- File access restrictions.
- OPC point/tag write permissions.
- Time logon permitted.
- Login station control.
- User-defined security
- Password and user/group account management (maximum age, length, etc).
- Account lockout.
- Auto logout after timeout for high-level users.
- Access to development mode.
- Task switching.
- Windows access.
- Online configuration.

- Several individual features and functions offered by the various client applications within GENESIS32. For example, it restricts user access to printing, reports, zooming, menu commands, screen switching, trend view manipulations, alarm acknowledgment, and much more.

For additional information about the Security Server, please see the Help documentation for this application.

WebHMI

WebHMI provides OPC and visualization information from any ICONICS GENESIS32 OPC-based product to any computer running Microsoft Internet Explorer. Based completely on Microsoft DNA architecture, WebHMI uses ActiveX and DCOM technology to provide Web-based visualization. Integrate your HMI application with traditional Web browsers to perform remote and low-cost monitoring of key manufacturing information. WebHMI not only allows the viewing of display information but also provides for security, data entry, and real-time interaction with your application. WebHMI allows you to view over the Internet or intranet traditional operator real-time displays with animation, live data trends, reports and alarms. For additional information about WebHMI, please see the Help documentation for this application.

DataWorX32

DataWorX32 is a 32-bit, multithreaded, OPC-compliant client and server application providing multiple functionality. DataWorX32 is a component of the GENESIS32 product family, and it serves as a project-level data system for GENESIS32 applications. Acting as a bridge between various OPC servers, DataWorX32 provides different OPC data channels. Once multiple I/O channels are established between PCs, DataWorX32 will switch between a primary PC (node) and a backup PC on the network.

Should the primary PC be disabled, DataWorX32 will automatically (should the options be specified) default to the backup PC and vice versa. Another feature of DataWorX32 is the use of global variables that are accessible from multiple clients.

DataWorX32 is offered in three license versions:

- **DataWorX32 Standard Edition** with OPC Tunneling
- **DataWorX32 Professional Edition** with Redundancy for mission-critical applications
- **DataWorX32 Lite Edition** which provides only OPC Tunneling

DataWorX32 Standard Edition, offered as a stand-alone installation on the GENESIS32 Options disc, features Data Aggregation and **OPC Tunneling**. This connects any remote OPC server to a client in a robust and secure manner, allowing for OPC server real-time data to be redirected to more than one location. The easy-to-use graphical configuration interface allows for a centralized place to manage all remote connections.

Offered in the **DataWorX32 Professional Edition** is the new DataWorX32 full-featured redundancy, which provides high availability similar to features found in large Distributed Control Systems. DataWorX32 Redundancy is the only product to support the three most important OPC standards, increasing the reliability and availability of OPC data by allowing multiple OPC servers to be configured into redundant pairs. These redundant OPC server pairs seamlessly appear as a single OPC server to any OPC client application. This feature can be added to an existing OPC server/client application, without any reconfiguration of those applications, keeping your processes going without any down time. **DataWorX32 Professional Edition** is installed as part of the full GENESIS32 Automation Suite installation.

For additional information about DataWorX32, please see the Help documentation for this application.

AlarmWorX32 Multimedia

AlarmWorX32 Multimedia is an option of AlarmWorX32 that provides OPC-compliant multimedia technology for remote alarm notification. Various multimedia "agents" are provided, including:

- **Telephony Agents:** The **Call-out Agent** calls a defined number and gives a message with options to respond. The **Call-in Agent** enables callers to dial in by phone to get alarm information and browse for OPC Data Access tags. The **PA Agent** uses a public address (PA) system device to announce alarms and events over a loudspeaker.
- **Pager Agent:** Delivers alarms not only to numeric pagers, but also to alphanumeric and even two-way pagers. Use the templates provided out-of-the-box, or configure your own message formats to send the information you need to the handy remote devices. Supports not only the TAP paging protocol standard, but also the newer SMS paging services for universal worldwide support.
- **Video Agent:** Plays a prerecorded video or a video captured at the moment of the alarm, allowing you to use a video device to send a video or a snapshot to a computer providing alarm information.
- **E-mail Agent:** Allows you to receive and acknowledge alarms using standard e-mail messages. You can configure e-mail attachments, send screen snapshots, data files, or other files. You can also send a reply back to the alarm system and acknowledge alarms via e-mail. Includes simple MAPI support (supports non-Microsoft e-mail clients), support for Microsoft Outlook, and support for SMTP (for outgoing mail only), which could eliminate the need for an e-mail client.

- **Skype Messaging Agent:** Skype is a Internet telephony software that offers telephone calling and text messaging over the Internet. The Skype Agent delivers instant text messages to any Skype account. If you do not have a Skype account, you can sign up for a free account at www.skype.com.
- **Marquee Agents:** The **Software Marquee Agent** sends alarm and event messages to a marquee that scrolls across the screen of a PC, either local or on the network. The **Hardware Marquee Agent** sends alarm and event messages to external scrolling marquees, and includes support for multiple (LAN-based) devices.
- **Sound / Text-to-Speech Agent:** Plays prerecorded sounds and/or speech from text locally or remotely over a network. The sound message is specified in the sound template, where you can select a sound (.wav) file from the Sound Library or enter a text message to be converted to speech. Alarms are generated and spoken through speakers connected to a sound card.
- **Fax Agent:** Sends alarm notifications using a fax machine. The template determines the actual message that gets faxed to the number specified, and includes an optional cover page design that can be used for all faxed messages.
- **Popup Agent:** Launches an application of your choice (e.g. Internet Explorer) to provide alarm messages and allows you to open and execute a file on a computer. For example, you can configure a Popup Agent to open Microsoft Internet Explorer and display alarm information within your Web browser so that an HTML Web page appears on your screen whenever a critical problem occurs.
- **Task Tray Agent:** Delivers a pop-up message to the Windows taskbar notification area, allowing instant alarm notification no matter what the operator is doing.

- **Custom Agent:** Enables you to create your own Multimedia agent. You can create a customized executable file by specifying parameters that the Multimedia Server will use to call the Custom Agent's interface.

For additional information about AlarmWorX32 Multimedia, please see the Help documentation for this application.

Symbol Library

GraphWorX32 supports the use of smart symbols in displays. Smart symbols contain data-point connections. If you load a smart symbol into your display in animation mode, the symbol begins displaying data immediately based on that data-point connection. GraphWorX32 uses two different modes for the Symbol Library:

- Standard stand-alone Symbol Library
- Dockable symbol toolbar

The **Symbol Library** is available in GraphWorX32 as a dockable toolbar or a floating window inside display files. It can be freely floating above a GraphWorX32 application or docked to any side of the GraphWorX32 display. Features of the Symbol Library are fully implemented in the Dockable Symbol Toolbar. You can create, rename, and delete both category files and symbols within the dockable toolbar, as well as unlock categories with passwords and change the look of the symbol icons in the view pane. The category file format of the Dockable Symbol Toolbar is fully compatible with previous versions of the Symbol Library, and vice versa. For additional information about the Symbol Library, please see the Help documentation for this application.

Unified Data Manager

The **Unified Data Manager** enables the centralized management of commonly used expressions, value sets, tag groups, alarm subscriptions, alarm filters, recipes, and event triggers across GENESIS32 products as well as other ICONICS products. From an easy-to-use interface you can create libraries of reusable expressions, value sets, recipes and other functions. The Unified Data manager provides time-saving, on-the-fly selections and modifications of commonly used functions, saving integration and applications development time.

The **Unified Data Manager** provides a convenient, single Configurator interface that enables you to set up the following different types of data sources:

- Expressions
- Groups
- Value sets
- Recipes
- Event triggers
- Alarm subscriptions
- Alarm filters

Once you have configured your data tags, they can be accessed from many applications via the Unified Data Browser. For additional information about the Unified Data Manager, please see the Help documentation for this application.

SNMP Configurator

Today's factory automation systems must integrate information from different infrastructures reliably and in real-time. To assist with integration, GENESIS32 enables users to integrate OPC, SNMP (Simple Network Management Protocol), and databases with real-time data mining. ICONICS' native SNMP network management and analysis capability was specifically developed for the industrial controls marketplace to seamlessly integrate monitoring and analysis of a wide variety of managed and unmanaged Ethernet devices into all ICONICS products.

For additional information about the SNMP Configurator, please see the Help documentation for this application.

Recipe Management System

The ICONICS Recipe Management System consists of the following components:

The Front End

- **Tree Explorer ActiveX:** Allows you to browse for and visualize recipes within GraphWorX32.
- **Recipe ActiveX:** Allows you to visualize and edit recipe item values within GraphWorX32.
- **Recipe Pick Action:** Enables you to create buttons in your GraphWorX32 display that allow you to apply changes made to recipe items via the Tree Explorer ActiveX and the Recipe ActiveX. Changes that you make to the recipe values can be applied to the Recipe Server, the active recipe configuration, and the connected OPC server.

The Back End

- **Unified Data Manager:** Use the Unified Data Manager configurator to create and activate your recipe configuration.
- **OPC Servers:** Recipe parameter values are associated with OPC tags, which enable the connected OPC servers to communicate with the Recipe Server and to relay recipe values to the PLC device in the end-user application.
- **Recipe Server:** Communicates and relays recipe data between the Unified Data Manager configuration database, the Tree Explorer ActiveX, the Recipe ActiveX, and the OPC server to which the recipes are connected.

For more information about the ICONICS Recipe Management System, please see the GraphWorX32 help documentation.

2 INSTALLATION AND REQUIREMENTS

2.1 System Requirements

To run GENESIS32 V9.2, ICONICS has the following system requirements:

Supported Operating Systems

- Windows 7 x64 (runs in the 32 bit compatibility mode) †
- Windows 7 x86 †
- Windows Server 2008 R2 (runs in the 32 bit compatibility mode)
- Windows Server 2008 x64 SP2 (runs in the 32 bit compatibility mode)
- Windows Server 2008 x86 SP2
- Windows Vista x64 SP2 (runs in the 32 bit compatibility mode) †
- Windows Vista x86 SP2 ††
- Windows Server 2003 x86 SP2
- Windows XP Professional x86 SP3

† Supported Editions of Windows 7 are Windows 7 Professional, Ultimate, and Enterprise Edition. Windows 7 Starter and Home Premium Editions are not supported in this release.

†† Supported Editions of Windows Vista are Windows Vista Business, Ultimate, and Enterprise Edition. Windows Vista Home and Home Premium Editions are not supported in this release.

Minimum Requirements

- 1.0 GHz Processor (CPU)
- 512 MB Physical Memory (RAM)
- 2.0 GB Hard Disk space available
- DVD optical drive
- SVGA Video Card; 256 or more colors for best results
- A mouse or other compatible pointing device

- Microsoft-compatible keyboard
- Microsoft Internet Explorer 6.0 or higher

Optional Hardware

- Ethernet adapter (for remote PC connections or Ethernet I/O)
- USB port (for hardware license or license transfer)
- Serial COM ports or other adapters (for data I/O)

Recommended Requirements

Requirements described above are based on typical applications. Depending on your specific application, the minimum requirements may vary. In order to recommend specific system requirements, we must break the systems up into three categories based on tag count and running applications. In all systems we recommend that the virtual memory allotment be two times the amount of physical memory (RAM) on the system. For the systems below, we are assuming that the OPC server(s) are installed locally on the system and that the following ICONICS components are all running and using the tag count specified per classification: AlarmWorX32 Server, AlarmWorX32 Logger, TrendWorX32 Logger, and GraphWorX32 with AlarmWorX32 Viewer and TrendWorX32 Viewer.

Smaller Systems – 500 or fewer tags

- 1.0 GHz Processor (CPU) or more
- 1.0 GB Physical Memory (RAM)
- 2 GB Hard Disk space available

Medium-Sized Systems – Between 500 and 3000 tags

- 2.0 GHz Processor (CPU) or more
- 2.0 GB Physical Memory (RAM)
- 4 GB Hard Disk space available

Larger Systems – More than 3000 tags

- 3.0 GHz Processor (CPU) or more
- 4.0 GB Physical Memory (RAM)
- 10 GB Hard Disk space available

Requirement Notes

Specific hardware requirements depend on the size and complexity of your ICONICS GENESIS32 implementation. With any application, faster CPU speeds and increased physical memory (RAM) result in better performance.

* Supports dual-core and hyper-threaded systems.

** The actual amount of space required may decrease if help and example files are not installed. Requirements for logging data, alarms and screen storage are above this minimum. Virtual memory requires at least twice the amount of the physical RAM.

2.2 Installing GENESIS32

The following steps detail the GENESIS32 system installation. For complete information with installation screens, please see the *Getting Started* Help documentation on the GENESIS32 product DVD.

Note: If your operating system requires a login name, you must log in with administrator capability before installing GENESIS32 software. To run the GENESIS32 applications, you must be logged into the operating system with an account that is a member of the "Administrators" group or the "Power Users" group.

1. Before installing ICONICS software, be sure that all other applications are closed and/or disabled.
2. Insert the GENESIS32 product DVD into your DVD-ROM drive. If "Autorun" is enabled on your system, the DVD introduction starts automatically. Otherwise, browse to your DVD-ROM drive and run the "RunMe.bat" file.

3. During the installation, the system will look for a prior installation of the ICONICS License Utility. If a previous installation of the License Utility is detected, an update is required. If your PC is currently licensed, a temporary GENESIS32 9.2 license with the current configuration can be immediately granted for a 30-day temporary period. All current options and licensing information will be retained for 30 days.
4. Click on the **GENESIS32** link in the Product Installation section of the main menu.

If you are using a Vista or Windows Server 2008 system you will be prompted by the User Account Control system to give permission. Click **Continue** to continue.

5. The **GENESIS32** installation starts and displays a **Welcome** screen. Click the **Next** button to continue.
6. The **Customer Information** dialog box appears. Enter your **User Name** and company name; click the **Next** button to continue the installation.
7. On the **Choose Destination** screen either accept the default location or browse to and specify an alternate location for the installation files; then click **Next**.
8. The **Setup Type** dialog box appears. Select the type of setup (i.e. typical, compact, or custom) you prefer for the software installation. Click **Next** to continue.
9. The **Installation Type** dialog box appears. Here are two additional options available for an installation.
 - **Browser Station Installation.** Use this on a networked PC that ties into another GENESIS32 system. A "Browser Station," which cannot connect to a local OPC server (on the same system), must connect to a remote machine. For a typical installation, this option should NOT be checked. A Browser Station (or GenBrowser) gets its license from a remote node that is licensed for GenBrowser workstations. All data I/O needs to be from remote servers, except DataWorX32 data where the origination point of the data is remote, but the DataWorX32 installation is local.

- **GraphWorX32 Runtime Only.** This option creates an installation whereby GraphWorX32 cannot enter **Configuration** mode. For a typical installation, this should NOT be selected. Click the **Next** button.
10. On the Start Copying Files screen you are offered the option Run ICONICS Application Setup Utility (recommended), which is the default. This utility sets the DCOM permissions of ICONICS applications and services to run under a user specific account. Click **Next** to continue the installation.
 11. If Application Setup Utility runs it will post a dialog box where you can **choose or create a user**. If you click cancel then the AppSetup Utility aborts. Enter your information and click **OK**.
 12. Click the **Finish** button to complete the installation.

Note: Installation automatically installs VBA.

2.3 SupportWorX

ICONICS strives to provide excellence in products and technical support. Having our customers use the latest product versions and updates is an important part of this process. With an ICONICS SupportWorX Plan, you will receive the benefits of access to our technical support applications engineers, product updates, application notes, access to our knowledge database, and much more. If you are not enrolled in an ICONICS SupportWorX Plan, please contact your ICONICS authorized representative for information.

For more information about SupportWorX, go to:

<http://www.ICONICS.com/SupportWorX>.

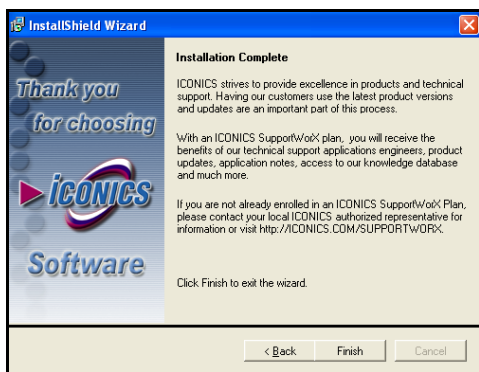


Figure 2.1. iCONICS SupportWorX program

2.4 Uninstalling GENESIS32

The GENESIS32 software can be uninstalled (removed) from the system. It is recommended that you back up all your project-related files before uninstalling. If your operating system requires a login, you need to log in with administrator capability to uninstall. Uninstalling GENESIS32 Software (or its components) will *not* uninstall the Licensing software. Your valid license will remain activated on your PC.

To uninstall GENESIS32:

1. Click **Start > Control Panel > Settings**.
2. Double-click on **Add/Remove Programs**.
3. From the list of programs that you can remove, select **iCONICS GENESIS32**.
4. Click on **Change/Remove** to remove GENESIS32 and all of its components.
5. Select **Remove**, and then click the **Next** button. When the files are removed, the uninstall program will indicate that the process is complete.

3 *ICONICS SOFTWARE LICENSING*

3.1 Introduction

ICONICS software products use a software-based licensing scheme. An activated license is required to use the software in full production mode. This license designates which products may be used, as well as the I/O point-count limit that controls the number of active data points (tags) that can be used by a system. This document explains the concepts of ICONICS GENESIS32 software licensing and shows how to install and activate the license.

Note: The system runs in a two-hour Demo mode without a license file enabled.

Note: If you have a previous version of the ICONICS License Utility installed you must kill the license and check it into the ICONICS Web Licensing Utility before installing the 9.2 Licensing Utility.

Note: In order to better support RAID systems, ICONICS licensing (and, specifically, the procedure for carrying licenses from a previous version to the current version) has been updated. If you wish to upgrade your ICONICS Software License, you will need to visit: <http://www.iconics.com/supportworx>.

3.2 Configuration and Runtime Modes

There are two distinct modes of operation within the ICONICS software modules: Configuration and Runtime.

Configuration mode is the product's capability to let you configure the system -- for example, to create graphic displays in GraphWorX32, to define which data to log in TrendWorX32, to configure which OPC points to monitor for alarming in AlarmWorX32, and so on. Configuration mode is often referred to as Development mode because your entire project is designed and developed in this mode.

Configuration mode in GENESIS32 does not require an installed software license. You may develop your system on any machine.

In Runtime mode, modules communicate with the actual I/O (input/output), talk to network nodes, and animate the documents that were created in Configuration mode.

3.3 Number of Active Data Points

Active data points are live data points viewed from OPC servers running locally and on the network nodes, etc., connected to the client applications. This number of live data points is also known as the point count. The point count controls the number of tags you can connect to. The number of active data points supported depends on the software package, as described next in Licensing Options.

3.4 Licensing Options

Licensing options are based on the client application, the point count supported, and an internal counting system called Client Units (ICUs) and Option Bits. When you purchase a GENESIS32 application or suite your license purchase enables a certain set of features. Those features are assigned an internal point count that the licensing module uses to keep track dynamically of your use of ICONICS products.

Note: You can't purchase Client Units as they are an internal counting system that is a feature of the licensing module itself. You purchase ICONICS applications and features with your license and that license recognizes the point count, and Client Units and Option Bits are assigned during runtime dynamically.

The following table lists how the Client Units are assigned based on the products and features you purchased.

ICONICS Products	Client Units	Basic GENESIS32
GENESIS32	450	
GEN32 Browser/WebHMI	n/a	Option Bit
WebHMI Single User	n/a	Option Bit
GraphWorX32	125	Yes
TrendWorX32	125	
TrendWorX32 Container	20	Yes
TrendWorX32 Viewer	35	Yes
TrendWorX32 Persistent Trending	15	Yes
TrendWorX32 Logger	40	Yes
TrendWorX32 Report	15	Yes
TrendWorX32 Oracle Logger	250	
AlarmWorX32 (no Multimedia)	125	
AlarmWorX32 Container	20	Yes

AlarmWorX32 Server	20	Yes
AlarmWorX32 Viewer	25	Yes
AlarmWorX32 Logger	30	Yes
AlarmWorX32 Report	30	Yes
AlarmWorX32 Oracle Logger	250	
AlarmWorX32 Multimedia	100	
ScriptWorX32	n/a	Option Bit
Screen Manager	25	Yes
OPC DataSpy	10	Yes
Dr. DCOM	10	Yes
ScriptWorX2006	n/a	Option Bit
DataWorX32	n/a	Option Bit
VCRWorX32	0	
Switch ActiveX	10	
Gauge ActiveX	10	
Slider ActiveX	10	
Vessel ActiveX	10	

Periodic ActiveX Script	10	
Event ActiveX Script	10	
OPC Alarm ActiveX	10	
Numeric ActiveX	10	
Tree Explorer ActiveX	10	
Recipe ActiveX	10	
Data Mining ActiveX	10	
PortalWorX	40	

For example, if you have chosen GENESIS32 and an additional AlarmWorX32 for the application and 1500 as the point count, you get 575 Client Units, and the total number of active data points supported by these applications would be 1500 at any time.

Note: ICONICS changes their internal assignments from version to version, so you should use the table above as only an approximation of the licensing module tracking. However, the license that you purchase for an application and feature set will remain stable and be applied within the lifetime of a product version (e.g. version 9.10).

When you order any ICONICS GENESIS32 product, a DVD containing all 32-bit products is shipped to you. The software license determines how many Individual Client Units the system has. You can install most products from the DVD, but you can run an application only if the necessary Client Units are available to do so.

GENESIS32 products with different point counts cannot run on the same Security Server. All products running in a Security Server have to be of the same point count.

Note: Please refer to the ICONICS GENESIS32 DVD documentation for information about licensing for GENESIS32 products.

Browser Station Installation

Use the Browser Station installation option when installing the software on a networked PC that ties into another GENESIS32 system. A "Browser Station," which cannot connect directly to an OPC server, must connect to a remote machine. For a typical installation, this option should NOT be checked. A Browser Station (or GenBrowser) needs to get its license from a remote node that is licensed for GenBrowser workstations. All data I/O needs to be from remote servers, with the exception of DataWorX32 data where the origination point of the data is remote, but the DataWorX32 installation is local.

3.5 Multi-User Licensing Support and Backup Server

When you install a multi-user license, the license is installed on only one computer. This computer will be the Primary Security Server. As client applications are authorized, a count is managed which allows the maximum number of Client Units to run simultaneously. These client applications can run in different computers connected to the Primary Security Server. If one client exits Runtime, the same or a different client may then connect and run.

3.6 GENESIS32 Demo Mode

Without a valid license installed in your PC, it is still possible to enter Runtime mode (described above in Configuration and Runtime). Upon startup, GENESIS32 software checks for a valid software license key; if none is found, GENESIS32 runs in Demo mode. Demo mode has the following limitations:

- It permits Runtime mode for only two hours.
- Only 32 OPC tag connections (points) can be updated.

Running GENESIS32 longer than the two-hour limit generates a message stating that the demo time has been exceeded. You must then exit GENESIS32. On restarting it, you will get another two-hour block of time in which to run. If there are more than 32 tags on a particular screen, gray stars (or whatever is configured as the Point Failure character) will appear in place of the actual I/O data.

3.7 License File

You must install ICONICS Software Licensing before you can run ICONICS software in Windows in non demo mode. The software **license file** handles licensing without requiring a hardware protection key. Licensing encrypting information is stored deep within the Windows systems. If no ICONICS authorization is present, the software automatically runs in Demo mode for two hours.

ICONICS offers a hardware key that you can purchase. The key is a USB thumb drive (or flash drive) and can be moved from system to system.

GENESIS32 V9.2 recognizes the hardware key on the system you have the key attached to. A hardware key is a more reliable method of moving licenses from one machine to another than a software key.

Note: Set the System Date and Time properly before installing the ICONICS License Utility. Changing the time and date may affect time-limited Licenses.

Upon successful installation of GENESIS32, the installation wizard automatically creates a directory for the GENESIS32 Software Key licensing system. By default, the files are copied to the following path:

C:\Program Files\ICONICS\Softlic

This directory contains the **GENLIC32.exe** utility used for any GENESIS32 system licensing transactions along with the Licensing files themselves.

For Windows NT, a GENESIS32 special service is installed that runs at startup and takes care of all the support needed to start the software protection system.

Note: Tampering with the installation directory or GENESIS32 files might accidentally destroy the license.

If you've licensed the PC, the following files are created. They are location in the same directory as your .INI files.

- GENLIC32.RST
- GENLIC32.ENT
- GENLIC32.KEY
- GENLIC32.KY2 (GENESIS32 Version 6.x only)
- GENLIC32.41S

These files give the user a license to use GENESIS32, and they contain encrypted information relating to the PC used, options the user is allowed to activate, and file system/directory. If the GENESIS32 directory is renamed after the license has been granted, the software protection key will NOT recognize the license under the new directory name. It is also advisable not to tamper with the system's clock if using a time-limited license. Setting the time back more than one hour will invalidate the license.

Note: Ensure there is at least 1 MB of free disk space at all times on the hard drive the license is installed on. If the disk becomes completely full, the software license may be lost.

Note: If you are using Norton Speed Disk to reallocate disk clusters, the following procedure must be followed to prevent loss of the GENESIS32 Software License.

1. Open Speed Disk and choose **File > Options > Customize > Unmovable Files**.
2. Specify that the ***.ent**, ***.rst**, ***.key**, ***.ky2**, and ***.41s** files cannot be moved.

3.8 GFW Compatibility

The GENESIS32 Software Licensing license file can coexist with a GENESIS for Windows 3.5 (GFW) 16-bit product if already installed for Windows NT. They are two mutually exclusive software-licensing utilities. Note that the GENESIS32 protection key does not authorize GFW to run, and the GFW protection key does not authorize GENESIS32 to run; each has its own mechanism. In other words, you cannot simply copy the license files from one directory to another and expect the system to work. Simply install each respective licensing utility to enable both product families.

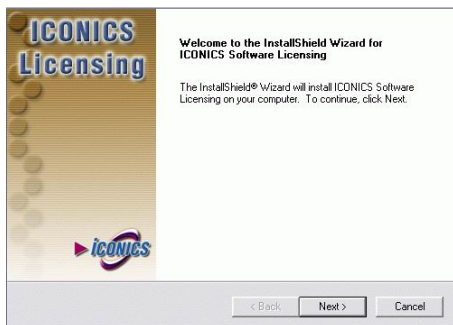
3.9 Installing ICONICS Software Licensing

If you have a previous version of the ICONICS License Utility installed you must kill the license and check it into the ICONICS Web Licensing Utility before installing the 9.2 Licensing Utility.

Note: You need to log in with administrator privileges before installing ICONICS software.

To install the License Utility, do the following:

1. Insert the GENESIS32 DVD into the DVD drive.
2. You will see the DVD introduction and the main menu. If Autorun is enabled on your system, the DVD introduction starts automatically. Otherwise, browse to your DVD drive and run the **RunMe.bat** file.
3. Select **Launch Licensing Installation** from the software selection menu.
4. The Software License installation starts and displays a Welcome screen, as shown in the figure below. Click **Next** to continue.



Welcome Screen

5. The **License Agreement** dialog box appears, as shown in the figure below. Read the license agreement, then select **I accept the terms of the license agreement**. Click the **Next** button to continue.



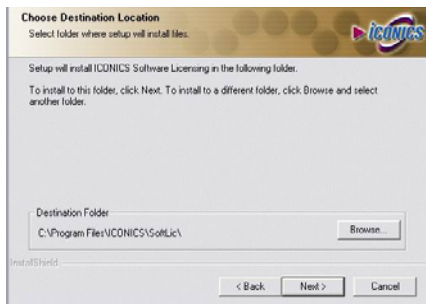
Software License Agreement

6. The **Customer Information** dialog box appears, as shown in the figure below. Enter your name and company for the **User Name** and **Company Name**. We recommend that you select to install the application for **Anyone who uses this computer (all users)**. Click the **Next** button to continue the installation.



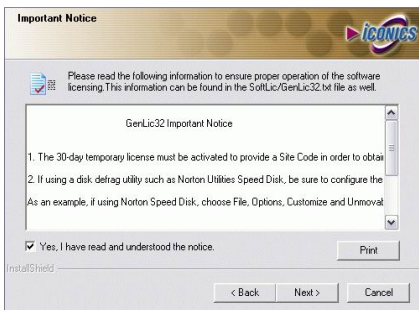
User Information Dialog Box

7. Choose the destination directory for the installation, as shown in the figure below. The default path is **C:\Program Files\ICONICS\SoftLic**. If you want to install the License Utility in a different directory, click **Browse**, then navigate to the alternate installation directory and select it. Click **Next** to continue.



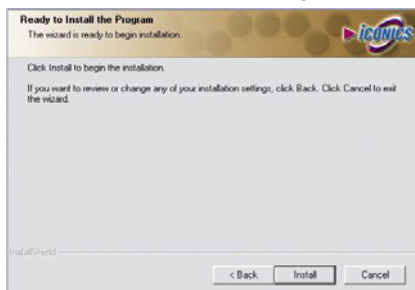
Choosing the Installation Directory

8. Read the important notice that appears. A sample is shown in the figure below. When you are done, select **Yes, I have read and understood the notice**, then click the **Next** button to continue.



License Utility Version Information

9. Click the **Install** button to proceed with the installation, as shown in the figure below.



Installing Licensing

10. When the installation is completed, the confirmation window shown below appears. Setup is now complete. Click the **Finish** button to exit the installation wizard. You may be asked to restart your computer before running the ICONICS License Utility.

Note: You must now run the License Utility and register your software license in order to use GENESIS32 or any of its components. For more information, see the section below called Running the License Utility.



Setup Complete

3.10 Running the License Utility

The Software License Utility provides full authorization for use of any purchased GENESIS32 product and its available options. To launch the License Utility from the Windows **Start** menu, select **Programs > ICONICS Software Licensing > License Utility**.

A dialog box opens as shown in the figure below, informing you that GENESIS32 is not authorized. At this point, you may decide to activate a temporary software license, described below in *Activating the 30-day Trial/Emergency License*. This allows you to use ICONICS products immediately for up to 30 days while you are completing the registration process.

Once you have activated the temporary license, you will be then able to register your permanent software license, as described later in *Registering for a Software License*.

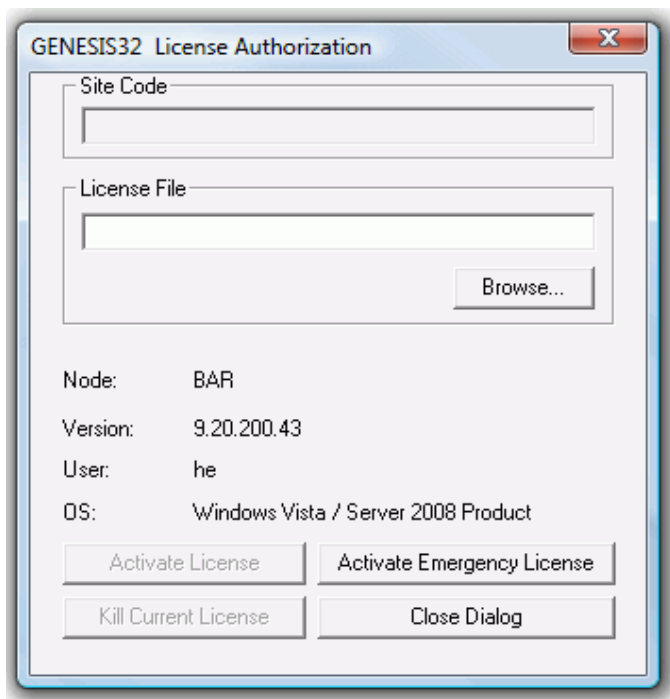


Product Authorization Warning

3.11 Activating the 30-day Trial/Emergency License

Within the GENESIS32 License Authorization dialog box, you can click on the **Activate Emergency License** dialog box to initiate a 30-day trial/emergency license. This license can be activated **only once per machine**.

Clicking **OK** will authorize the PC to run for a one-time only, 30-day backup period. The PC can be fully authorized at any time during or at the conclusion of this temporary backup period. Clicking **Cancel** returns you to the GENESIS32 License Authorization dialog box and preserves the existing license.



GENESIS32 License Authorization Dialog Box



30-Day Trial/Emergency License Warning

Note: Temporary backup license authorization is intended for urgent backup situations only. Clicking OK invalidates the existing license and activates a temporary backup authorization, permanently overwriting any existing license. Thus, please use caution when activating a temporary backup license authorization.

3.12 Registering for a Software License

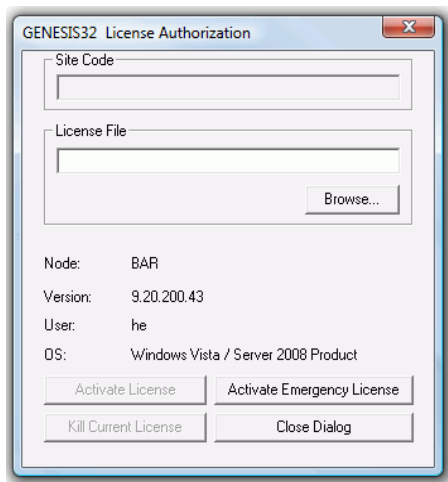
To authorize a permanent license, you must get a license file, which contains a unique "software key" number that unlocks the runtime licenses for your site.

There are two options for registering and obtaining a license file for the PC running the License Utility:

- Express Web site registration via the Internet, and
- Fax or e-mail registration.

Regardless of the option you use, you must follow the process below to register and license your installed GENESIS32 product(s) for the PC:

1. Identify all products that will run on the PC, as well as the Site Code (to be generated during the registration process) for the PC.
2. ICONICS validates the purchase of the products to be installed by using the provided Product Registration Number(s) shipped with the purchased DVD. Once the product purchases are validated, ICONICS generates and returns a corresponding license file that will activate the products for use on this PC.
3. To activate the license, select **Authorize License** from the **Actions** menu, and enter the provided license file in the **License Authorization** dialog box, which is shown in the figure below.



GENESIS32 License Authorization

3.13 Express Web Site Registration via Internet

If your PC has access to the Internet, you can do the following:

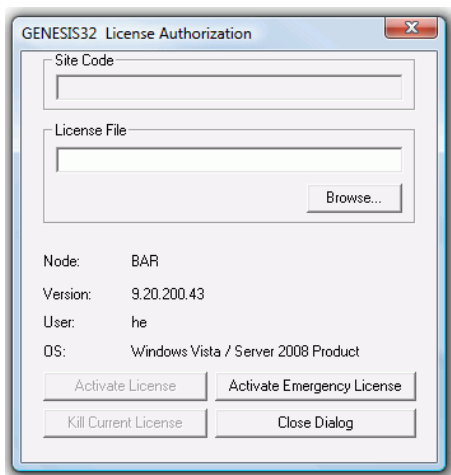
1. Select Express Web Site Registration via Internet to link to the ICONICS Registration Web page as shown in the figure below, and click OK. Now you can specify the products to be installed on your PC.

Note: You can also go directly to <http://www.iconics.com/supportworx> to register your products.



Selecting a Registration Method

The License Utility launches the **License Authorization** dialog box, shown in the figure below, to prepare for acceptance of a license file provided by the **ICONICS Registration** Web page. The License Utility also launches the **ICONICS Registration** Web page at <http://www.iconics.com/supportworx>. Return to the **GENESIS32 License Authorization** dialog box and copy the Site Code to the Windows Clipboard (by highlighting the Site Code field then pressing **Ctrl+C**) so you can copy it to the Web page.



GENESIS32 License Authorization Dialog Box

2. Return to the **ICONICS Registration** Web page and follow the directions that are provided there. When prompted for your Site Code (now copied to the Clipboard), press **Ctrl+V** to paste it.
3. At the end of the Web Licensing process, you will be given a license file. Download this license file to the desktop. Return to the GENESIS32 License Authorization dialog box. Browse for the license file on the desktop. Then click **Activate License** to complete the registration process.

Note: Even if the PC on which you wish to install the license is not connected to the Internet, you may still access the ICONICS Registration Web page via another computer. You will go through the same steps, but will not be able to use the copy and paste features. Instead, you will have to type the required codes.

3.14 Fax/E-mail Registration

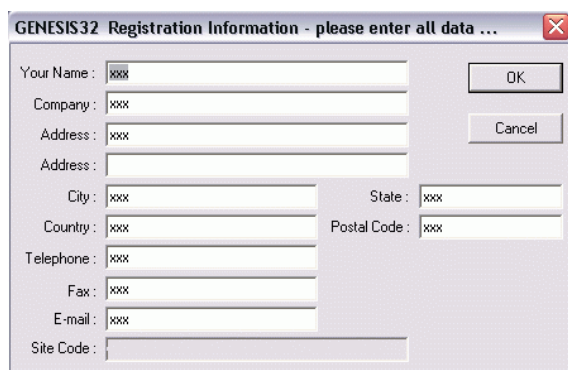
Instead of connecting to the Internet (either from the installation PC or another one as described above), you can alternatively apply for a software license via e-mail or fax. You specify the products to be installed on your PC and then send the generated information via fax or e-mail to ICONICS, as described below.

1. In the Registration Method dialog box, select the **Fax / E-mail Registration** method, as shown in the figure below.



Selecting a Registration Method

2. The Registration Information dialog appears, as shown in the figure below. The Site Code generated for your computer by the License Utility appears at the bottom. Enter your name, address, city, phone number, and other information in this dialog box, and then click OK. The License Utility automatically saves this information into the Registration file (Register.dat) in the path where you have installed the License Utility.



GENESIS32 Registration Information

3. The GENESIS32 **Product Registration** dialog box then appears, as shown in the figure below. There are two options, depending on whether the products to be installed on the PC have already been purchased and shipped with a labeled Product DVD:

- If the products have been purchased, make sure you have the DVDs with the sticker label bearing your Product Registration ID numbers in with you. Enter the Product Registration ID number(s) from the DVD case(s) into the field(s) provided on the Product Registration dialog box. Then click **Accept**.

The next dialog box to appear is the **Registration Process Completed** dialog box. **Skip to Step 4 below.**

- If the products have not yet been purchased and, therefore, you do not yet have the DVDs with the sticker label bearing your Registration Numbers, click Skip to proceed to the next dialog box.

GENESIS32 Product Registration

If you have already purchased product(s), enter the provided Registration Number(s) to be licensed on this PC. The number(s) may be found on the CD holder(s).

Registration Number : Customer Code :

1

2

3

GENESIS32 Product Registration

4. The **New Purchase of Products** dialog box, shown in the figure below, appears next if this is a new purchase and the Product IDs are not available. This dialog box does not require that the Registration IDs have been specified because the ID uniquely identifies the product(s) to be installed. Select the quantity and type of products to be installed and licensed on this PC and click **OK**.

GENESIS32 New Purchase of Products

Identify the quantity of products to be licensed on this PC :

Quantity	Product(s)
0	
0	
0	
0	
0	

Pocket GENESIS Users:

MobileHMI Users:

Point Count:

Options:

- ☐ ReportWoX
- ☐ BridgeWoX
- ☐ PortalWoX
- ☐ Alarm Analytics
- ☐ Unified Web Interface
- ☐ Unified Web Plug-in
- ☐ WebHMI
- ☐ AlarmWoX32 Multimedia
- ☐ DataWoX32 Professional
- ☐ DataWoX32 Lite
- ☐ CE ToolWoX
- ☐ OPC ToolWoX
- ☐ ActiveX ToolWoX

New Purchase of Products

5. Finally, the **GENESIS32 Registration Process Completed** dialog box appears. Here, you must choose which method for sending your registration information to ICONICS.



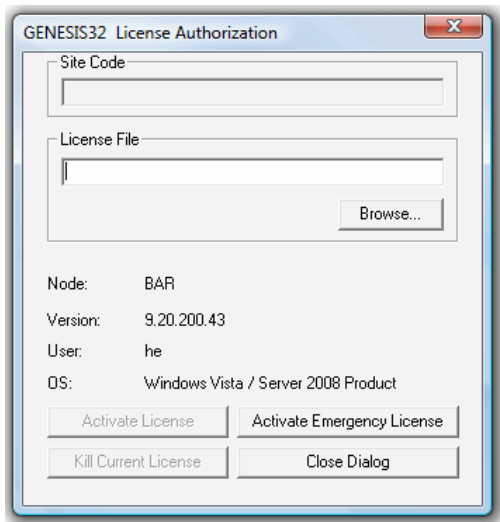
Registration Process Completed

6. After ICONICS receives this information from you, the ICONICS Order Processing Department will provide you with the unique license file for your system via e-mail.
7. Once you have your license file, you must authorize your software license (see section Authorizing Your Software License, next).

3.15 Authorizing the Software License

Once you have your license file (from either the Web site or from the location noted in the fax or e-mail you received from ICONICS), you are ready to authorize your license.

1. To authorize your license, select **Authorize License** from the **Actions** menu of the License Utility. The GENESIS32 License Authorization dialog box appears, as shown in the figure below.



License Authorization

2. This dialog box displays your Site Code. Click **Browse...** to navigate to your License File. Click **Activate License** to have your license authorized. You can now view the enabled software license by selecting **View License** from the **Actions** menu bar of the License Utility. You can also click the **Kill Current License** button to cease the currently running license.

You also have the option of clicking on the **Activate Emergency License** button, which activates a 30-day trial/emergency license.

Note: If you had an existing license to begin with, clicking **Activate License** overwrites your existing license, either by replacing or appending/updating it with new products.

3. You can now view the enabled software license by selecting View License from the Actions menu bar of the License Utility, described below in Viewing the Software License.

3.16 Viewing the Software License

To view the software license, select **View License** from the **Actions** menu of the License Utility. This opens the **GENESIS32 License View** dialog box, shown in the figure below, which displays the current license information, including:

- The type of license
- Restrictions on the license
- Number of days licensed (allowed and used)
- Number of Client Units supported by the license
- Site Code and Site Key
- PNum -- The Product Identification Number (to identify the product for ICONICS licensing support)

GENESIS32 License View

GENESIS32 Version 9.2 Product License

License Status:

Restriction: Days Allowed: 30 Used: 0 OK

License Configuration:

32 with 1250 Client Units

Pocket GENESIS Users: 0 MobileHMI Users: 2

Options:

Name	Total
AlarmWorX32 MultiMedia Server	1
Alarm Analytics	1
BACnet Connector Runtime	1
BridgeWorX Transactions	5
Data Mining OPC Server	1

License Site Information:

Site Code : CA43 A0A5 2692 FBA3 0B

Site Key : 89C3 6952 0806 9A6D 861C CE5E F6

PNum: Trial Mode

Node: T54

Version: 9.20.200.51 Copy

User: admin

OS: Windows Server 2003

Viewing the Software License

For a hardware license key, you will see a slightly different version of the Software License dialog box where the number of days remaining in the license is shown in place of the days purchased and days remaining which you see for a software key.

Click on the Copy button to copy the License Site information to the clipboard, to paste into any text editor for safekeeping.

Note: Please refer to the GenBroker help documentation for information about assigning a node or IP address to a remote License Server.

Note: Please refer to the ICONICS GENESIS32 DVD documentation for information about licensing for GENESIS32 products.

3.17 Transferring a Software Key License

You can use ICONICS' Web Licensing Web page to transfer a software license from one PC to another. The License Utility must be installed first on the target PC, so you can perform the license transfer.

Transferring Licenses Using the Web Site

You can transfer a license by first killing it (described in the next section) on one PC in conjunction with the Web Authorization Site (thereby putting the license back onto the Web), and then re-authorizing it on the new PC. The Web site acts as an intermediary storage facility for the license, making it easy to transfer licenses between PCs that are physically far apart.

3.18 Killing a Software Key License

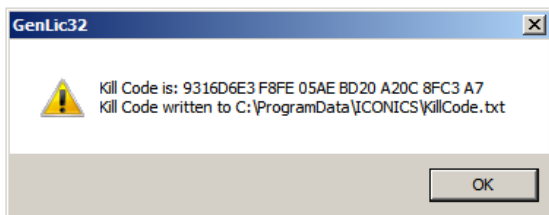
Killing a software key license deletes it and removes the current software license from the machine.

To kill or delete the existing software license:

1. Select **Kill Current License** within the GENESIS32 License Authorization dialog in the License Utility. Using this option, you can remove the current software license from the current machine. A warning message appears on the screen to ensure that you wish to proceed and to notify you that the action is permanent.
2. **IMPORTANT:** If you kill your license, you need to get a new license from ICONICS to restart your GENESIS32 product.

Note: You can copy the code in the Kill Confirmation Code field and paste it onto the Web page.

Click **OK** to continue.



Kill Confirmation Code

3. Upon successful deletion, a file called **KillCode.txt** will be created in the same directory as your .INI files (e.g C:\Documents and Settings\All Users\Application Data\ICONICS), which has the name, date, and last authorized key and confirmation code. **Keep this file!** You will have to use the name, date, and last authorized key and confirmation code that it contains to confirm that you have killed your license (either via our Order Entry Department, or from the Web site).

Note: For newer Microsoft operating systems (Windows Vista, Windows 7) the **KillCode.txt** file will be created in C:\ProgramData\ICONICS. This folder may initially be hidden. In order to view the hidden "Program Data" folder, open the Folder Options control panel, click on the View tab, then click on the circle next to "Show hidden files, folders, and drives". Click Apply then OK. You should then be able to navigate to C:\ProgramData\ICONICS, where the newly created **KillCode.txt** file is located.

Note: If you uninstall the Software License Utility, the **KillCode.txt** file will be deleted. For this reason, make sure you copy the **KillCode.txt** file to a safe location or be sure to note the confirmation code and Site Key before uninstalling the Software License Utility. You will also need to give the confirmation code and Site Key to ICONICS for the license removal process to be complete.

Note: Simply uninstalling GENESIS32 Enterprise Software (or its components) will not uninstall the Licensing software. If you simply uninstall, your valid license will remain activated on the PC.

3.19 Hardware Key

The optional hardware key is a USB thumb drive (or flash drive) that you can move from system to system. GENESIS32 recognizes the hardware key on the system you have the key attached to. A hardware key is easier and is a more reliable way of moving a license from one machine to another than a software key.

Upon insertion of the USB key into an available USB port, the necessary drivers are automatically loaded.

A green status light will illuminate upon successful connection. Should the USB key be missing or unplugged during operation of GENESIS32 software, plug the USB key back in either within an hour of removal or upon system reboot; otherwise the hardware-based license will not be immediately recognized.



Hardware

Should you require a replacement key, visit <http://www.iconics.com/supportworx>. New users must create an account through the ICONICS Web Licensing Utility in order to request replacement keys.

3.20 Web Licensing

The ICONICS Web Licensing Utility was introduced in recent years to help you license your system. You can use the utility to generate a new license, kill a license and transfer a license. A new function to the ICONICS Web Licensing Utility is to use it to upgrade your license.

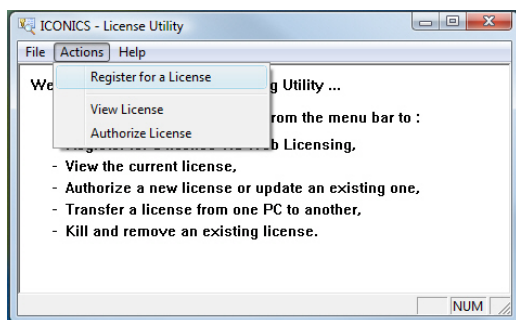
Supported operating systems for using the ICONICS Web Licensing Utility to upgrade your license include Windows 2000, Windows XP Professional, Windows Server 2003, Windows Vista, Windows Sever 2008, Windows Server 2008 R2 and Windows 7. Using the utility will require Internet access and a Web browser (e.g. Internet Explorer 6.0 and up).

3.20.1 Acquiring a New Software License

Users of ICONICS software can use the ICONICS Web Licensing Utility to acquire a new software key license.

3.20.1.1 Issuing a New Software License

1. On the machine where you want the GENESIS32 license to reside, open the License Utility by going to **Start -> Programs -> ICONICS Software Licensing -> Licensing Utility**.
2. From the "Actions" menu, click on "Register for a License".



3. Select Express Web Site Registration via Internet and click OK.



4. This opens the ICONICS SupportWorX page. Click on the “License Product” link in the right side of the page, as shown below.

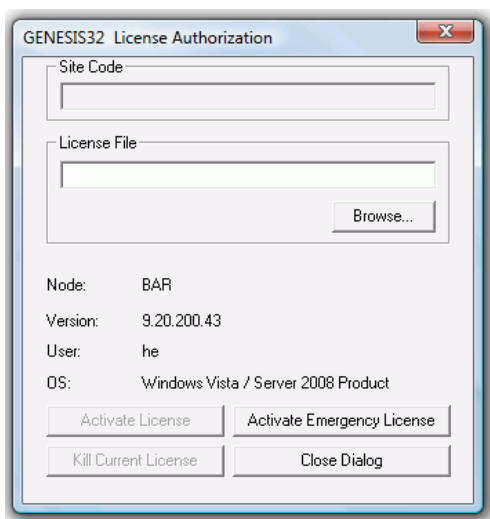


5. This opens the ICONICS Web Licensing Utility. Click on the “Software” button, as shown below.



Simultaneous to opening the ICONICS SupportWorX page, the License Utility launches the **License Authorization** dialog box, shown in the figure below, to prepare for acceptance of a license file provided by the **ICONICS Web Licensing Utility** Web page.

Return to the **GENESIS32 License Authorization** dialog box and copy the Site Code to the Windows Clipboard (by highlighting the Site Code field then pressing **Ctrl+C**) so you can copy it to the Web page.



6. You will be required to log in to access the Software License Options. Enter your email address and password and click on the "LOGIN" button. If you do not yet have an account, you can create one by clicking on the "Create New Account" link near the bottom of the page.



7. Once you have logged into the Web site, click on the "New License" link in the top navigation bar.
8. Enter your Product Registration Numbers and Customer Keys for the products to license, then click "Next".

NOTE: Your Product Registration Number and Customer Key are usually on the inside of the DVD tin package that ICONICS sent to you.

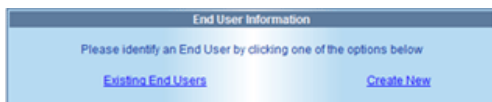
New License

Use this New License option if you do not currently have a permanent license on your computer.
To issue a New License, do the following:

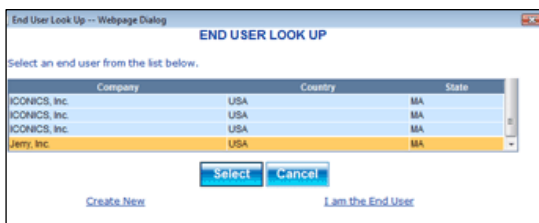
1. In the Product Registration column enter the registration number(s) and the associated Customer Key on the Product Registration number(s) and Customer Key(s) can be found on the back of the ICONICS CD/DVD case(s).
2. For multiple registrations enter each on a separate row.
3. Click the Next button to continue.

Product Registration #	Customer Key
G79066519	CUS02258

9. In the next screen, you will be requested to identify the end user for whom the license is being issued. You can look up a list of users that have been previously entered by clicking on the “Existing End Users” link or can enter a new one by clicking on the “Create New” link.



10. Clicking the Existing End User link will open a new window with a list of previously entered end users (either entered by you or tied to the product registration numbers entered in the previous screen). Select an end user from the list and click “Select” or double-click the selected end user. If you, yourself, are the end user and you are not listed in the grid, you can click on the “I am the End User” link to enter your data as the new end user. After identify the end user, click on “Next”.



11. In the next screen, you will see a list of the products that are available for you to license. Check all the products that you would like to license. Copy the Site Code from the License Utility of the destination machine and paste it into the Site Code box of the current Web page, then click on "Next".

Home > Software License > New License

New License

Below are the product(s) that you have purchased and that have not yet been assigned a Site key.

To register product(s) to a specific system, do the following:

1. Enable the check box(es) next to the product name(s) that you would like to assign.
2. Enter the site code into the Enter Site Code text box.
The Site Code can be found in the ICONICS License Utility. Select the Authorize License command from the Actions menu to view the Site Code.
3. Click the Next button to continue.

Select	Product Key	Product Description	RegNo
☒	BIZVZ-SP V8 C12	12 MONTH CONSIGNMENT LICENSE FOR V8 BIZVZ	Q795665919
☐	BIZVZ-SP V8 C12	12 MONTH CONSIGNMENT LICENSE FOR V8 BIZVZ	Q795665919
☐	BIZVZ-SP V9 C12	12 MONTH CONSIGNMENT LICENSE FOR V9 BIZVZ	Q795665919
☐	BIZVZ-SP V9 C12	12 MONTH CONSIGNMENT LICENSE FOR V9 BIZVZ	Q795665919
☐	GENESIS32-SP V7 C12	12 MONTH CONSIGNMENT LICENSE FOR SP	Q795665919
☐	GENESIS32-SP V8 C12	12 MONTH CONSIGNMENT LICENSE FOR V8	Q795665919
☐	GENESIS32-SP V9 C12	12 MONTH CONSIGNMENT LICENSE FOR V9	Q795665919
☐	GENESIS32-SP V9 C12	12 MONTH CONSIGNMENT LICENSE FOR V9	Q795665919
☐	GENESIS32-SP V9 C12	12 MONTH CONSIGNMENT LICENSE FOR V9	Q795665919

Enter Site Code of the PC : 536E 2ACB B4EB C1D4 0123 440F FDB9 F8

12. Review the license information before proceeding. Click on "Generate Key" to issue the new site key.

Home > Software License > New License

New License

You requested to have the products below be registered to the following Site Code:

54B9 AE27 40AD ADE7 D5

Product Key	Product Description	PIRegNo	GIRegNo
GEN64-v10.5 TEST LAB	v10.5 LICENSE	PN888113111111543	QND6505A63AD65F45

Total BizViz/GEN32 Point Counts: 10
 Total GEN64 Point Count: 100000
 Total Hyper Historian Point Count: 100000
 License Days: 30

13. The next page will show you a summary of what will be your license, as well as your Site Code and License File.

Home > Software License > New License

The following License File has been assigned to your system for use in license activation. Use the License File inside the ICONICS Software Licensing Utility. Please keep the Site Key for future reference purposes.

Site Code: 54B3 AE27 40AD ADE7 D5
Site Key: 1B44 954F E61A 79ED 5FFA 6610 7C

Download the following **LICENSE FILE** to authorize your license
[Click here to download](#)

Registered Products

Product Key	Product Description	Order Date	Order #	PlgRghts	GlgrRghts	Customer Key
GENEA-v10.5 TEST LAB	v10.5 LICENSE	12/February/2010 23:54:09G	P808111311111543	ONE8080A3D86F45		CJ502206

We recommend that you print this screen for your records. Use the print friendly button on the left.
An email has been sent to your email account with the above information.

Thank you for choosing ICONICS.

14. Download the license file (*.glic) by clicking on the link. You will need this file to license the machine.
NOTE: If you misplace the file after receiving it, you can use the View License link with your Product Registration Number to download it again.
15. In the Software License Activation Utility, click on the "Browse" button and look for the license file that you downloaded from ICONICS' Web site.
16. Once you have selected the file and the License File textbox shows the file path, click on the "Activate License" button.
17. You should then receive a popup message indicating the status of the license activation. You can click on "OK" to close the dialog.
18. The **GENESIS32 License Authorization** dialog box should now show the current license information. Notice that the Site Code may change, as expected, but the Site Key should be the same one you saw on the Web site.

3.20.2 Adding to an Existing Software License

1. Go to <http://www.iconics.com/supportworx> and launch the Web Licensing Utility by clicking on "License Your Product".
2. Once you have logged into the Web site and accessed the Software License main page, click on the "Add to License" link in the top navigation bar.
3. Enter your Existing Site Key, Product Registration Numbers and Customer Keys, then click "Next".

Home > Software License > Add To License

Add To License

Use the Add To License option below to modify an existing license to include products you have purchased. To add to a license, do the following:

1. Enter your assigned Site Key into the Existing Site Key text box.
The Site Key should be identical to the one found in the ICONICS License Utility on your system. Use the View License command on the Actions menu to display this information.
2. In the Product Registration column enter the registration number(s) and the associated Customer Key on the right. Product Registration Number(s) and Customer Key(s) can be found on the back of the ICONICS CD/DVD case(s).
3. For multiple registrations enter each on a separate row.
4. Click the Next button to continue.

Existing Site Key: 405A 270D AA32 ACA0 0054 5567 9F30 EA03 43AD EA

Product Registration	Customer Key
P148418544	CU500001

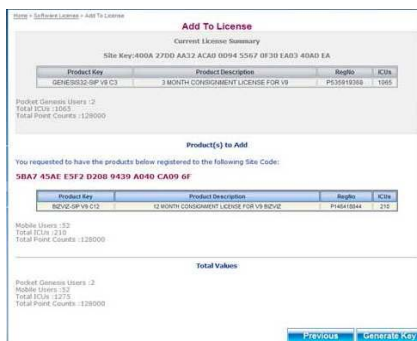
Add New Remove Row

Next

4. In the next screen, you will see a summary of the current license and a list of products that are available for you to add to the existing license. Check all the products that you would like to license. Copy the Site Code from the license utility of the destination machine and paste it into the Site Code text box of the current Web page, then click "Next".



5. Review the license information before proceeding. Select "Generate Key" as shown in the following image.



6. The next screen will display the new site key and the link to your license file. Follow steps 13 to 18 from **3.20.1.1** "Issuing a New Software License" to complete the licensing process.

3.20.3 Upgrading a Software License Key

There are four basic steps when it comes to upgrading a license via the Web Licensing Utility:

- Step 1: Kill the older version license and credit it on our Web site
- Step 2: Upgrade the license on our Website
- Step 3: Uninstall the older version of software and install the newer version
- Step 4: License the newer version

The order in which you do Step 2 and Step 3 does not matter.

3.20.3.1 Killing a License via the ICONICS Web Licensing Utility

See Section 3.18 “Killing a Software Key License” for the initial steps on how to kill a license within the Licensing Utility provided on the GENESIS32 DVD. Be sure to take note of the Site Key and Kill Confirmation Code. This information is necessary to put the license back on the ICONICS Web site. NOTE: This information is also in the KillCode.TXT file.

Once you have the Kill Code, follow these additional steps:

1. Go to <http://www.iconics.com/supportworx> and launch the Web Licensing Utility Site by clicking on the “License Your Product” button.



2. The main page of the Web Licensing Utility will load. Click on the “Software” button to access the Software License Options.



3. You will be required to log in to access the Software License Options. Enter your email address and password and click on the “LOGIN” button. If you do not yet have an account, you can create one by clicking on the “Create New Account” link near the bottom of the page.



4. Click on the "Kill License" link on the top navigation bar.
5. Copy the Site Key from the KillCode.TXT file on your source machine into the Site Key field on the Web page, then copy the Kill Confirmation Code into the Kill Code field on the Web page. Next, click on the "Remove Key" button on the Web page.

Home > Software Licensing > Kill License

Kill License

Please enter the Site Key to be credited and the associated Kill Confirmation Code.

Please enter Site Key and Kill Code exactly as shown in KILL.TXT file, including spaces.

Site Key:

Kill Code:

To remove a license for GENESIS32, do the following:

1. Click on Start, Programs, ICONICS Software License, and select License Utility.
2. Select the Kill License command from the Actions menu.
3. Enter your name, site and the password "bosk" (lower case) into the dialog box; then click the OK button. The License Utility generates a dialog box containing your Site Key and the associated Kill Code and stores this information to the KILL.TXT file in %SystemDrive%\Program Files\ICONICS\Software.
4. Enter your Site Key and Kill Code into the text boxes above; then click the Remove Key button.

To remove a license for GENESIS64, do the following:

1. Click on Start, Programs, ICONICS GENESIS64, Licensing Utility.
2. Click the Kill License button on the main panel and click "OK".
3. The License Utility generates a dialog box containing your Site Key and the associated Kill Code and stores this information to the KILL.TXT file on your current desktop.
4. Enter your Site Key and Kill Code into the text boxes above; then click the Remove Key button.

6. You will get a message confirming that the Site Key has been successfully deleted as shown in the image below. The products associated with the deleted Site Key will now be available to be re-licensed.

Home > Software Licensing > Kill License

Kill License

Site Key successfully deleted

Site Key:

Kill Code:

The following products are again available to you for registration:

Product Key	Product Description	Order Date	Order #	PItrgths	GItrgths	Customer Key
GEN64-v10.5 TEST LAB	v10.5 LICENSE	12February2010	29549H2	PM0901113111111543	ONE600505A83AD69F45	CUG02266

We recommend that you print this screen for your records. Use the print-friendly button on the left. An email has been sent to your email account with the above information.

Thank you for choosing ICONICS.

3.20.3.2 Upgrading the License on ICONICS' Web Site

See Section 3.18 “Killing a Software Key License” for the initial steps on how to kill a license within the Licensing Utility provided on the GENESIS32 DVD. Be sure to take note of the Site Key and Kill Confirmation Code. This information is necessary to put the license back on the ICONICS Web site. NOTE: This information is also in the KillCode.TXT file.

1. After you have copied your Site Key and Kill Confirmation Code in the previous step (either physically or electronically), you can now visit <http://www.iconics.com/supportworx>.



2. Next, click on the “License Your Product” button. This opens a new Web page, as shown below.



3. Click on the “Software” button to proceed. You will then be required to enter your email address and password for the site, as shown below. If you do not already have a login for this page, click on the “Create New Account” link near the bottom of the page.



4. Once you have logged in, click on the “Kill License” link in the top navigation bar.
5. Next, fill in your Site Key and Kill Code information that you copied while killing your previous license (see 3.18 “Killing a Software Key License”).

Kill License

Please enter the Site Key to be credited and the associated Kill Confirmation Code.

Please enter Site Key and Kill Code exactly as shown in KILL.TXT file, including spaces.

Site Key: [259C 3CDD 0524 B2B2 20B3 456F DA3B 85C5 B799 9B]

Kill Code: [CB1E B42F 8984 0B07 F679 6767 8BA3 CDEF 01C0 24B0 28EF 9E]

To remove a license for GENESIS32, do the following:

1. Click on Start, Programs, ICONICS Software License, and select License Utility.
2. Select the Kill License command from the Actions menu.
3. Enter your name, date and the password “itask” (lower case) into the dialog box; then click the OK button. The License Utility generates a dialog box containing your Site Key and the associated Kill Code and stores this information to the KILL.TXT file in %systemdrive%\program files\ICONICS\Software.
4. Enter your Site Key and Kill Code into the text boxes above; then click the Remove Key button.

To remove a license for GENESIS64, do the following:

1. Click on Start, Programs, ICONICS GENESIS64, Licensing Utility.
2. Click the Kill License button on the main panel and click “OK”.
3. The License Utility generates a dialog box containing your Site Key and the associated Kill Code and stores this information to the KILL.TXT file in %systemdrive%\program files\ICONICS\Software.
4. Enter your Site Key and Kill Code into the text boxes above; then click the Remove Key button.

Remove Key

6. Once you kill the license on ICONICS' Web site, you will receive an email containing the following information:
 - Site Key
 - Kill Code
 - Product for which you have killed the license

The Web page itself should now look similar to the figure below.



7. At this point, you have completed killing the license. Notice that in the final "Kill License" page, as shown above, it states that if the license is eligible, it can be upgraded to the latest version and it provides a link for availability.

3.20.3.3 Checking License Upgrade Availability

The easiest way to check if your license is available for an upgrade is by clicking the link on the page immediately after you kill the license. Clicking the link brings you to the Upgrade License Page. You can also get to this page by clicking on the "Upgrade License" link in the tree control (third item).

Follow these steps to upgrade your license.

1. On the Upgrade License page, fill in your Product Registration Number and Customer Key. This is the same information you received in the Web page and in your email after you have killed the license on our Web site.

2. Click on "Next" when you have filled in the necessary information.
3. If the license is available for an upgrade, you will see the available license on the page.

Upgrade License

Below are the product(s) that you have purchased that are available for upgrade.

To upgrade product(s), do the following:

1. Enable the check box(es) next to the product name(s) that you would like to upgrade.
2. Click the Next button to continue.

Available Licenses					
Select	Product Key	Product Description	Pfileglo	Gfileglo	Status
☒	GEN32V8-5000	V8 GEN32 RUNTIME 5000 PT - 1 USER	PN21111111111111111111	QND123456789123456	Available

4. Notice that the Product Description here shows a different product with an earlier version license (Version 8). Yours should reflect the license you have for your product. Check the available product that you would like to upgrade and click on "Next".
5. The next page is a confirmation page. Check that the information shown is correct and click on the "Upgrade" button to proceed.
6. On the new page that loads next, you can see a list of upgraded products. Notice that the Product Description shows a license for a later version product (Version 9.2) instead of the earlier one (Version 8).

Home > General Information > Upgrade License

The following products have been successfully upgraded:

Upgraded Products						
Product Key	Product Description	Order Date	Order #	Pfileglo	Gfileglo	Customer Key
GEN32V92-5000	V9.2 GEN32 RUNTIME 5000 PT - 1 USER	12/February/2010	29548WQ	PN21111111111111111111	QND123456789123456	CU552266

We recommend that you print this screen for your records. Use the print friendly button on the left.
An email has been sent to your email account with the above information.

Thank you for choosing ICONICS.

7. You should also receive an email with the license upgrade information.

3.20.4 Upgrading a Hardware License Key

Upgrading a hardware key license is similar to upgrading the software key license. You would follow the exact same procedure as upgrading a software license. In the case of a Hardware key License though, you will need the USB dongle in order to kill the license from it and put the new one onto the key.

3.20.5 Licensing the New Version

Now that you have upgraded the license, you can follow the regular procedure to license your machine with the new version. When it asks you for the Product Registration Number and the Customer Key, you can provide the same one. This information was sent to you in the last step of upgrading your license via email. If you need more information on how to license the machine with the upgraded license, please consult our application notes titled *Licensing – Using the ICONICS Web License Utility for Software Key Licenses* and *Licensing – Using the ICONICS Web License Utility for Hardware Key Licenses*, as it pertains to your individual situation. These Application Notes and more can be found via the Info Center on the GENESIS32 DVD.

4 GEN32 DEMO

4.1 Introduction

The Gen32 Demo is a set of GraphWorX32 (.gdf) display files installed with your system to help you learn and test your new software. The Gen32 Demo contains the following:

- Online Product Tutorial
- Technology Training
- Corporate Information
- Project Examples
- Other Miscellaneous Files

Although this chapter only gives a quick overview of this demo, you are strongly encouraged to explore all of the files contained within the project. By switching to **Configure** mode in GraphWorX32, you can explore how the display was created and the dynamics and connections used.

Note: For complete information about the Gen32 Demo with additional screens, please see the *Getting Started* Help documentation on the GENESIS32 product DVD.

4.2 Starting the Gen32 Demo

Look in the *ICONICS\GENESIS32\Examples\Gen32Demo* directory (your default working directory) for Gen32 Demo. Gen32 Demo uses GraphWorX32, the HMI graphics software module of GENESIS32, as the "engine" for giving the presentations. To launch the Gen32 Demo:

From the Windows **Start** menu, select **Programs > ICONICS GENESIS32 > Gen32Demo**.

This will open the Gen32 Demo home page (**Home.gdf**) display file in GraphWorX32 in **Runtime** mode, as shown in **Figure 4.1**.



Figure 4.1. Gen32 Demo Home Page

4.3 Navigating the Gen32 Demo

The main navigation tools in the Gen32 Demo are contained within the border. Each button is explained below. Clicking on the **ICONICS** logo, shown in **Figure 4.2**, takes you to a series of screens that provide information about ICONICS.



Figure 4.2. ICONICS Logo

There are two forward-pointing arrow buttons with subtle differences in the way they operate, as shown in **Figure 4.3**. Use the **Small Forward Arrow** as a **Display Forward** button, working much like the forward button in Microsoft® Internet Explorer. Use the **Large Forward Arrow** to browse forward through the defined demo sequence.



Figure 4.3. Forward Arrow Buttons

There are also two backward-pointing arrow buttons with subtle differences in the way they operate, as shown in **Figure 4.4**. Use the **Large Backward Arrow** as a **Display Back** button, working much like the **Backward** button in Microsoft Internet Explorer. Use the **Small Backward Arrow** to browse backwards through the demo sequence.



Figure 4.4. Backward Arrow Buttons

Note: If you are simply going through the demo screens in sequence without jumping around, then both of these buttons operate in a similar fashion.

Clicking on the **Home** button, shown in **Figure 4.5**, takes you back to the start of the demo sequence (the **Home.gdf** display) from wherever you may be in the demo sequence.



Figure 4.5. Home Button

Clicking on the **List** button, shown in **Figure 4.6**, allows you to jump to any display used in the demo sequence. You can also use it to change which presentation sequence the Gen32 Demo will use.



Figure 4.6. List Button

When you first click on the **Home** button, it will open a **Demo Screen Sequence List** showing all the files in the current sequence being used by the Gen32 Demo. Select which file you wish to go to from the list, and then click the **Open** button (or simply double-click on the file name).

Clicking on the **Select a Different Presentation Sequence** button opens a dialog asking which other presentation you wish to use. Additional details on these, and on creating your own, can be found in the **ReadMe** file that comes with the Gen32 Demo.

Clicking on the **Industry Examples** button, shown in **Figure 4.7**, takes you to a series of example screens. Additional details are provided in the *Getting Started* Help documentation on the GENESIS32 product DVD.



Figure 4.7. Industry Examples Button

Clicking on the **Learning Center** button, shown in **Figure 4.8**, takes you to the **Tutorial** section of the Gen32 Demo.



Figure 4.8. Learning Center Button

Clicking on the **Help** button, as shown in **Figure 4.9**, opens a pop-up menu with links to the **Gen32 Demo Help Screen**, as well as the *GENESIS32 Getting Started* Help documentation and the GENESIS32 product help files.



Figure 4.9. Help Button

5 GENESIS32 QUICK START

5.1 Introduction

The *Getting Started* Help documentation on the GENESIS32 product DVD provides the following "quick start" tutorials to help you get started with your GENESIS32 projects:

- OPC Simulator Quick Start
- GraphWorX32 Quick Start
- TrendWorX32 Quick Start
- AlarmWorX32 Quick Start

This chapter only provides a brief overview of these tutorials. To follow along step-by-step with the full versions of the quick starts, please see the *GENESIS32 Getting Started* Help documentation on the GENESIS32 product DVD.

5.2 OPC Simulator Quick Start

GENESIS32 "Plugs and Plays" with the powerful open communication architecture of OPC (OLE for Process Control). An overview of OPC can be found in **Chapter 1**.

Since there are hundreds of OPC servers available, each with variations on the steps for using their configuration tools, it is not possible to provide exact details for the specific server you will use for your project. Instead, the **OPC Simulator Quick Start** provides a step-by-step guide for creating OPC tags using the ICONICS Simulator OPC Server. The Simulator OPC Server should already be installed on your machine in conjunction with GENESIS32. If it is not on your machine, you may install it from the GENESIS32 DVD.

Although you will ultimately use the actual OPC server connected to your real I/O, you should still complete the steps presented in the OPC Simulator Quick Start. To follow along with these steps, please see the *GENESIS32 Getting Started* Help documentation on the GENESIS32 product DVD.

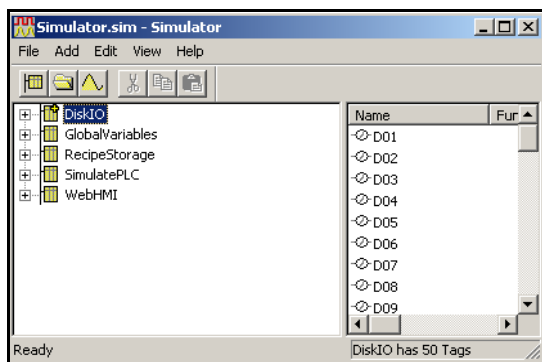


Figure 5.1. OPC Simulator Configurator

To launch the ICONICS Simulator OPC Server from the Windows **Start** menu: Select **Programs > ICONICS Tools > Simulator OPC Server**. This opens the configuration screen for the OPC Simulator, as shown in **Figure 5.1**. Note that there are definitions already created for this server. Various portions of the Gen32 Demo use these tags. As such, you should leave these configurations intact so the various examples used in the Gen32 Demo will function properly.

The names in the left pane of the window (e.g. **Disk IO**, **Global Variables**, **Recipe Storage**, **Simulate PLC**) represent simulated "devices." In the real world, "devices" could mean "Programmable Logic Controllers (PLCs)," "I/O Boards," or "Sensor Networks," etc. The first step, then, is to create your own simulated device to hook up to the simulated network of I/O. The OPC Simulator Quick Start walks you through the following:

- Starting a new OPC Simulator project
- Creating a simulated device
- Creating groups
- Creating tags

5.3 GraphWorX32 Quick Start

The **GraphWorX32 Quick Start** serves as a "mini-tutorial" for GraphWorX32, the HMI module in GENESIS32. There are dozens of tools with hundreds of parameters and combinations to create powerful graphics. The intent of the quick start is not to go through every combination and permutation, but to walk through a few fundamental concepts sufficient enough to get a project started.

The TrendWorX32 Quick Start and the AlarmWorX32 Quick Start also build on the example screen developed in the GraphWorX32 Quick Start, showing how to add live trending of data and alarm information. To follow along with the steps in the GraphWorX32 Quick Start, please see the *GENESIS32 Getting Started* Help documentation on the GENESIS32 product DVD.

Note: For additional information on using GraphWorX32, please refer to the Gen32 Demo tutorials (see Chapter 4) or the GraphWorX32 Help documentation available on the GENESIS32 product DVD.

The Gen32 Demo provides an example GraphWorX32 display that serves as a starting point for the GraphWorX32 Quick Start. This GraphWorX32 display file, called **QuickStartWalkThru.gdf**, is installed in the *Program Files\ICONICS\GENESIS32\Examples\Gen32Demo* directory. To start the project:

1. Launch GraphWorX32 from the Windows **Start** menu by selecting **Programs > ICONICS GENESIS32 > GraphWorX32 > GraphWorX32**.
2. In GraphWorX32, select **Open** from the **File** menu.
3. Browse to the *ICONICS\GENESIS32\Examples\Gen32Demo* directory and open the file called **QuickStartWalkThru.gdf**.
4. The display, shown in **Figure 5.2**, already has the **Gen32 Demo** template applied (the top and left border with the navigation buttons, etc.), as well as a number of objects already configured.

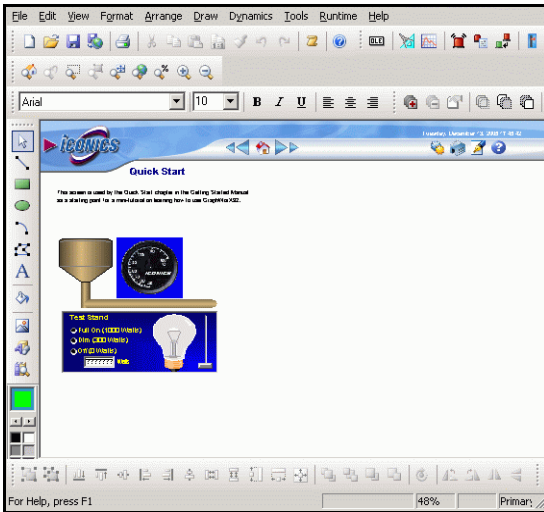


Figure 5.2. GraphWorX32 Quick Start Example Display

You will modify the display to show live values coming from the Simulator OPC Server, using the tags created in the OPC Simulator Quick Start. The GraphWorX32 Quick Start walks you through the steps for configuring the dynamics for this display, including:

- Process points
- Runtime mode
- Location dynamic
- Rotation dynamic
- Color dynamic
- Writing values to OPC tags

5.4 TrendWorX32 Quick Start

TrendWorX32 is the Data Logging and Trending module in GENESIS32. There are actually several components that make up this software package:

- SQL Data Logger
- Data Logging Configurator
- Persistent (Background) Trending
- Trend Viewer ActiveX for Live and Historical Trending
- Database Reporting Tools

Within each of these components are dozens of tools with hundreds of parameters and combinations to satisfy a wide range of applications. The intent of the quick start is not to go through every combination and permutation, but to walk through enough fundamental concepts of the TrendWorX32 Viewer ActiveX to get a project started.

Note: For additional information on using TrendWorX32, please refer to the Gen32 Demo tutorials (see Chapter 4) or the TrendWorX32 Help documentation available on the GENESIS32 product DVD.

The **TrendWorX32 Quick Start** builds on the **QuickStartWalkThru.gdf** GraphWorX32 display developed in the GraphWorX32 Quick Start, showing how to add live trending of data to that display. To follow along with the steps in the TrendWorX32 Quick Start, please see the *GENESIS32 Getting Started* Help documentation on the GENESIS32 product DVD. To start the project:

1. If it is not already running in GraphWorX32, open the **QuickStartWalkThru.gdf**.



Figure 5.3. Inserting a TrendWorX32 Viewer ActiveX

2. The TrendWorX32 component for plotting live and historical data graphically on the screen is actually an ActiveX component. It is therefore available not only within the TrendWorX32 container application, but in any ActiveX container. In GraphWorX32, insert the TrendWorX32 Viewer ActiveX into the display by clicking on the **TWXView32** button on the **ActiveX** toolbar, as shown in **Figure 5.3**.
3. A trend window is placed on the screen, as shown in **Figure 5.4**. Shrink it down and move it to fill in the right hand section of the screen, as shown in Figure 5.4. It is easiest first to move it so the lower right corner is at the desired location, and then simply use the upper left resize handle to position the opposite corner.

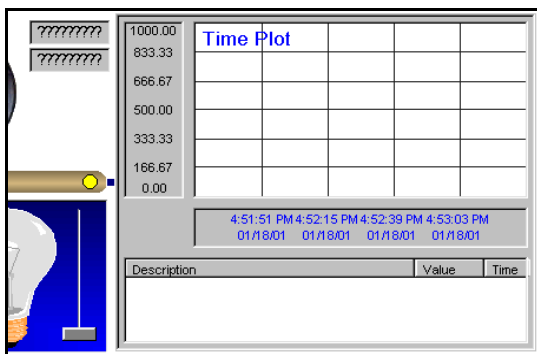


Figure 5.4. Placement of the Trend Viewer ActiveX

The TrendWorX32 Quick Start walks you through the steps for configuring the trend viewer for this display, including:

- Dragging and dropping data sources
- Manipulating trends during runtime
- Configuring the trend viewer properties

5.5 AlarmWorX32 Quick Start

AlarmWorX32 is the alarm monitoring, logging, and reporting module in GENESIS32. There are several components that make up this software package. Within each of these are dozens of tools with hundreds of parameters and combinations to satisfy a wide range of applications:

- Alarm Server Configurator: Creates alarm definitions
- Alarm Server: Main engine for monitoring alarms
- Alarm Logger Configurator: Defines which alarms get logged to a database and/or printer
- Alarm Logger: Print and log to a database
- Alarm Container: Provides a container for the Alarm Viewer ActiveX (helpful for stand-alone applications)
- Alarm Viewer ActiveX: Plug-in that shows live alarms
- Alarm Report ActiveX: Plug-in that shows historical alarm information from the logged database
- Alarm Indicator ActiveX: Monitors alarm activity from virtually anywhere on your computer display
- AlarmWorX32 Multimedia (optional): Plug-ins for enunciating alarms using multimedia "agents," including pager, telephony, e-mail, fax, marquees, text messaging, and task tray

Note: For information about AlarmWorX32, refer to the Gen32 Demo tutorials (Chapter 4) or AlarmWorX32 Help on the GENESIS32 product DVD.



Figure 5.5. Inserting an AlarmWorX32 Viewer ActiveX

AlarmWorX32 Quick Start builds on **QuickStartWalk-Thru.gdf** from the GraphWorX32 Quick Start, adding a live alarm viewer to that display. To follow along with the AlarmWorX32 Quick Start, refer to *GENESIS32 Getting Started* Help on the DVD. To start the project:

1. If it is not already running in GraphWorX32, open the **QuickStartWalkThru.gdf**.
2. The AlarmWorX32 component for showing live active alarms in a table is actually an ActiveX component. It is therefore available not only within the AlarmWorX32 container application, but in any ActiveX container. In GraphWorX32, insert the AlarmWorX32 Viewer ActiveX into the display by clicking on the **AWXView32** button on the **ActiveX** toolbar, as shown in **Figure 5.5**.
3. An alarm window is placed on the screen. Move it and resize it to fill up the bottom section of the screen, as shown in **Figure 5.6**. **Save** the display file.

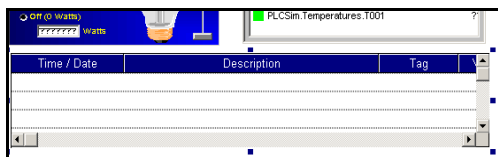


Figure 5.6. Placement of the Alarm Viewer ActiveX

The AlarmWorX32 Quick Start walks you through the steps for configuring the alarm viewer for this display, including:

- Creating an alarm view
- Alarm viewer runtime operation
- Configuring the alarm viewer properties
- Configuring an alarm tag

5.6 ScheduleWorX32 Quick Start

ScheduleWorX is a scheduling management program to control many of industries' needs for scheduling automation, such as controlling building lights, HVAC, machine operation time, and many others.

ScheduleWorX and UDM operate under the same single configuration file. Unlike other modules of Genesis32 that uses separate configuration file, ScheduleWorX will store all of its schedules, value sets, and holiday information in the same configuration file that is used by UDM. With this in mind, when you open ScheduleWorX, any configuration that is currently active in UDM will be loaded automatically.

A schedule is where you put in your events. By assigning valueset to a schedule, you will be able to modify each valueset's behavior for a specified events. You can create weekly recurring schedule, exceptions, and holiday events.

To create a schedule:

1. To launch ScheduleWorX click Start > Programs > ICONICS Genesis32 > ScheduleWorX > **ScheduleWorX**
2. To create a new schedule right click on the Schedule in the tree-control, and select **New > Schedule**.
3. Enter your **events**, and **save** the file.

6 GENESIS32 UTILITIES

6.1 Introduction

In addition to the core products of GraphWorX32, TrendWorX32, and AlarmWorX32, many other important tools and utilities are also installed with GENESIS32. This chapter briefly introduces some of these utilities. For more information, please refer to the Help documentation on the GENESIS32 product DVD.

6.2 Workbench32

ICONICS Workbench32™ is the centralized Web-based environment for GENESIS32 product configuration and runtime operations. The Workbench also provides a framework for multimedia technology to configure alarms, and project management. Workbench can load various providers or plug-ins that read and write to SQL or system databases, works with Multimedia alarm notifications, loads configuration forms that can start and stop services, set environmental variables and more. The key elements of the Workbench are that it provides a browsing function, a display or design function, and a command set through the toolbar and menus that can be swapped out when a new provider is loaded. The Workbench also provides a framework for project management.

Among the providers that can currently be utilized within the Workbench32 environment are (listed alphabetically):

- **AlarmWorX32 Logger Configurator**
- **AlarmWorX32 Multimedia Configurator**
- **AlarmWorX32 Server Configurator**
- **BACnet Configurator**
- **BridgeWorX Configurator**
- **DataWorX32 Configurator**
- **GENESIS32 Navigator**
- **GENESIS32 Navigator Runtime**

- **Global Aliasing Configurator**
- **Language Aliasing Configurator**
- **Modbus Ethernet OPC Server Configurator**
- **Modbus Serial OPC Server Configurator**
- **ReportWorX Configurator**
- **ScheduleWorX32 Configurator**
- **SNMP Connector**
- **TrendWorX32 Logger Configurator**
- **Unified Data Manager Configurator**

For more information on Workbench32 or any of the providers listed above, see the component's Help file included on the GENESIS32 install disc.

6.3 Security Server

The ICONICS **Security Server** provides a variety of options for restricting operator actions during runtime, including:

- Which points they can write to (change value).
- Which files they can open.
- Time sheets for defining when they can log in.
- Password management.
- Workstation access for logging in.
- Client application action restrictions.

For additional information, refer to the Security Server Help documentation on the GENESIS32 product DVD.

6.4 MonitorWorX

The **MonitorWorX Viewer** is a tool that provides graphical monitoring and a centralized diagnostics area for many aspects of your GENESIS32 applications, including:

- Applications and Services
- Licensing
- Redundancy
- Runtime

Key features of MonitorWorX include:

- Look and feel of the Unified Data Browser.
- Movable split bar separating the tree control from the item viewer.
- Shows runtime information for active servers.
- Centralized diagnostics tool for GENESIS32 components.
- Starts and stops applications and services (serves as a replacement for the GenTray application).
- Provides licensing information and duplicate license detection.
- Displays the runtime status of redundant node pairs (support for redundancy in DataWorX32 Professional Edition). Also allows you to designate (in real time) which node in a redundant node pair is the active node and which node is the standby node.
- System tray provides visible "bubble" notifications.

For additional information, please see the MonitorWorX Help documentation on the GENESIS32 product DVD.

6.5 GenBroker

GENESIS32 provides a utility called **GenBroker™** to assist with projects using a set of applications networked together. GenBroker enables you to designate which method to use for network communications, as well as define remote servers for a networked set of workstations. There are many options and possible configurations.

The GenBroker Configurator is a tool that enables you to customize your network architecture. The GenBroker Configurator allows you to:

- Specify the communication method.
- Configure the GenBroker Client.
- Configure the GenBroker Server.
- Assign nodes to direct channels.
- Assign mediator nodes for indirect channels.
- Specify the default channel.
- Add and remove nodes or IP addresses.
- Configure channel properties.
- Specify the location of primary and redundant remote servers.

The configuration settings are saved in a GenBroker configuration (.gbx) file. You can store multiple configuration files. Configuration files tell GenBroker Server how to communicate when it interacts with various clients. For additional information, please see the GenBroker Help documentation on the GENESIS32 product DVD.

6.6 TraceWorX32

Using a technology that has been incorporated into all ICONICS products, **TraceWorX32** provides online diagnostics and tuning of applications running in the GENESIS32 system. TraceWorX32 is designed for systems integrators, OEMs and customers who want to have tools for doing their own troubleshooting and diagnostics. For additional information, please see the TraceWorX32 Help documentation on the GENESIS32 product DVD.

6.7 ProjectWorX32

GENESIS32 contains numerous applications with multiple components, requiring a well-trained user in order to successfully create, integrate, deploy, and manage projects. Each of these components requires complex setup of many different types of configuration files, databases, and OPC servers, as well as runtime and security settings. To simplify project management and deployment, ICONICS has introduced **ProjectWorX32**, which integrates all GENESIS32 applications into a single, easy-to-manage format. The ProjectWorX32 user interface is basically a container embedded in the Microsoft Management Console (MMC). The ProjectWorX32 console conveniently consolidates all of your GENESIS32 files in one location, enabling you to:

- Organize all application files into separate projects.
- Create new application files and OPC configurations.
- Import application files into projects.
- Start and stop GENESIS32 applications.
- Pack project files into a single, compressed file, and unpack project files for easy deployment to multiple computers.
- Activate entire projects into runtime mode.
- Password-protect projects security settings.
- Back up project files.
- Publish projects to the Web.
- Generate comprehensive reports for all files and projects.

For additional information, please see the ProjectWorX32 Help documentation on the GENESIS32 product DVD.

6.8 VCRWorX32

VCRWorX32 is a powerful tool in GENESIS32 that enables the replay and reanimation of graphical, historical and alarm data. For additional information, please see the VCRWorX32 Help documentation on the GENESIS32 product DVD.

6.9 Unified Data Manager

The **Unified Data Manager** enables the centralized management of commonly used expressions, value sets, tag groups, alarm subscriptions, alarm filters, recipes, and event triggers across GENESIS32 products as well as other ICONICS products. From an easy-to-use interface you can create libraries of reusable expressions, value sets, recipes and other functions. The Unified Data Manager provides time-saving, on-the-fly selections and modifications of commonly used functions, saving integration and applications development time. For additional information, please see the Unified Data Manager Help on the DVD.

6.10 ScriptWorX 2010

ScriptWorX has undergone some major changes from ScriptWorX32 to ScriptWorX 2010. **ScriptWorX32** is still included with GENESIS32 Version 9, so ScriptWorX32 configurations from earlier versions will not need to be updated, but the many advantages of ScriptWorX 2010 will most likely convince you to use it for new applications.

ScriptWorX 2010 allows you to create and run custom scripts. These scripts are written in Microsoft Visual Basic for Applications (VBA), and are run as multithreaded objects. The ScriptWorX 2010 Configurator indicates what type of script is being created and how it will be executed. User-defined VBA scripts can perform OPC read-and-write operations to any OPC server, which interfaces to factory floor devices, such as PLCs and other OPC-compliant servers.

ScriptWorX 2010 simultaneously performs calculations, manages databases, and executes any operation available in the VBA language to access reports or perform recipe operations. ScriptWorX 2010 also offers project-level scripting. ScriptWorX 2010 takes advantage of the new Unified Data Manager with its extensive centralized support for triggers. VBA scripts can be scheduled and configured for execution, and can be triggered based on OPC Data Access, OPC Alarm and Events, and file events. For additional information, please see the ScriptWorX 2010 Help documentation on the GENESIS32 product DVD.

6.11 DataWorX32

DataWorX32 provides OPC-server-to-OPC-server data bridging, OPC aggregation, OPC tunneling, and mission-critical OPC-based redundancy. Unique data-bridging technology allows the connectivity of any OPC server to any other OPC server, providing Plug and Play interoperability. This enables you to connect two different OPC servers and share data easily and seamlessly. Data can also be manipulated through expressions and calculations. For additional information, please see the DataWorX32 Help documentation on the GENESIS32 product DVD.

6.12 Data Mining

GENESIS32 data mining enables visualization of data from various data sources, such as a Microsoft Access, in a customizable display format that enables users to interact with and manipulate data. The Data Mining Configurator establishes connections with data sources that can be mined from GENESIS32 applications, such as GraphWorX32, where users can visualize data. For more information, see the Data Mining Configurator documentation on the DVD.

6.13 SNMP Configurator

Today's factory automation systems must integrate information from different infrastructures reliably and in real-time. To assist with integration, GENESIS32 enables users to integrate OPC, SNMP (Simple Network Management Protocol), and databases with real-time data mining. ICONICS' native SNMP network management and analysis capability was specifically developed for the industrial controls marketplace to seamlessly integrate monitoring and analysis of a wide variety of managed and unmanaged Ethernet devices into all ICONICS products. For additional information, please see the SNMP Configurator documentation on the GENESIS32 product DVD.

7 *HELP AND TECHNICAL SUPPORT*

7.1 Online Help

ICONICS software provides online help with descriptions and explanations of each application. Help is available from the Help menus and within most dialog boxes. You can access help from the following:

- Select **Help Topics** from the **Help** menu of the current application. This opens the help file for that application. To search for a topic in the help file, click the **Find** button and go through the **Find Setup Wizard**. Type or select the term you want to find, and then click on the topics.

Note: Most help (**.hlp**) files for GENESIS32 are installed in the *Program Files\ICONICS\GENESIS32\Bin* directory and the *Program Files\Common Files\ICONICS* directory. Each help file has an accompanying table of contents (**.cnt**) file. If the **Find Setup Wizard** fails to initialize when you try to execute a search operation (as described above), close the help file and then delete any **.fts**, **.ftg**, and/or **.gid** files from the directory. Then reopen the help file run search again.

- Click on the **Help** button (or press the **F1** key) in any dialog box to display context-sensitive help for that dialog box or application.
- Move the mouse pointer over an icon and pause for a moment to display pop-up ToolTips for quick help.
- Adobe® Acrobat® PDF files of all GENESIS32 documentation are included on the GENESIS32 product DVD in the Documentation section.
- To access general information and the latest software enhancements, open the **Genesis32.txt** file in the directory where you installed the program files.
- Run the Gen32 Demo (refer to **Chapter 4**), which offers an online tutorial as well as many examples from which to learn.

- Additional example files are also installed in the *Program Files\ICONICS\GENESIS32\Examples*.

7.2 Training Classes

Training classes are held regularly at the ICONICS training facility in Foxborough, Massachusetts. To reserve seats in training courses and to view the current ICONICS training schedule, go to www.iconics.com/support/training.asp. If you have any questions about ICONICS training, please contact our training coordinator at 508-543-8600.

7.3 Technical Support

ICONICS customers may obtain technical support in several different ways. First-Line Support is through your local ICONICS representative or distributor. You may also contact ICONICS' Support Engineers directly by phone, fax, e-mail or the ICONICS Web site.

For complete information about Global Technical Support, please see the Global Support and Services User Guide at <http://www.iconics.com/supportworx>.

Global Support and Services

ICONICS is proud to provide our customers with the highest quality customer service. Our Global Support and Services programs are supported by ICONICS offices around the globe and our network of sales channel distributors and representatives, with local and regional locations for front-line service and expert assistance. Programs include the **SupportWorX™** Technical Support Services subscription program for continuous technical support; **Quality Professional Services** for expert system architecture design assistance, training and start-up assistance; a **24 x 7 Emergency Support Option** plan; and **Training and Certification** programs for ICONICS users, systems integrators and sales channels. For complete information about SupportWorX service plans and technical support, please see the Global Support and Services User Guide at <http://www.iconics.com/supportworx>.

ICONICS Knowledge Base

The **ICONICS Knowledge Base** is a subscription-only service that contains hundreds of known product questions and answers. The Knowledge Base includes solutions, tips and tricks and frequently asked questions (FAQs) on all ICONICS products. Advanced search allows you to tailor queries using a natural language approach. *This service is available by subscription only.* For more information go to: www.iconics.com/support/knowledgebase.asp.

Online Support

ICONICS maintains a comprehensive Web site at www.iconics.com. This is the best place to go for the latest events, support information, product downloads, licensing, documentation, services, and product news.

Note: Software obtained from ICONICS.com is subject to the ICONICS License Agreement.

Telephone Support

ICONICS support centers are open Monday through Friday, year round, except for local holidays and ICONICS holidays. Support handle calls on a first-come, first-served basis. Calls are answered immediately during the business hours below.

Americas (United States): 508-543-8600	8:00 AM – 6:00 PM Eastern Standard Time
Europe (Czech Republic): 420-377-183-447	9:00 AM – 6:00 PM European Central Time
Asia Pacific (Australia): 61-2-9727-3411	9:00 AM – 6:00 PM Australian Eastern Time

Please have the following available when you call:

- Your Contract Number
- Your GENESIS32 Product Registration or Serial Number
- A PC available for tests and diagnostics
- A clear understanding about the issue.
- The version of your OS and the ICONICS product(s)
- OPC server or relevant third-party software info

Note: Go to www.iconics.com/support/support-offices.asp to contact our Technical Support department. You can submit an Action Report to our Technical Support staff at: www.iconics.com/support/action_report.asp.

E-mail Support

The ICONICS support center e-mail addresses are:

- **North America:** Support@ICONICS.com
- **Europe:** EuropeSupport@ICONICS.com
- **Pacific Rim:** PacificRimSupport@ICONICS.com

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