

Description: Guide to version 10.6 product licensing options.

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

General Requirement: None.

Introduction

This application note explains many of the licensing options available in Version 10.6 GENESIS64, Hyper Historian, AnalytiX, and MobileHMI products. Please consult your ICONICS sales representative with questions and refer to documentation in the ICONICS Help files under the section “Licensing Overview” for further information.

View your license using License Viewer under program group “ICONICS Licensing → ICONICS .NET Licensing, or open the Workbench and select Tools and Licensing from the menu bar and ribbon as shown in Figure 1 below.

The Version 10.6 system operating under a Demo Mode license allows unlimited configuration on the machine that a GENESIS64 system is installed. The Demo Mode license is the default upon product installation, and limits runtime to 12 hours and to 64 GENESIS64 Tags and 500,000 Hyper Historian Tags.

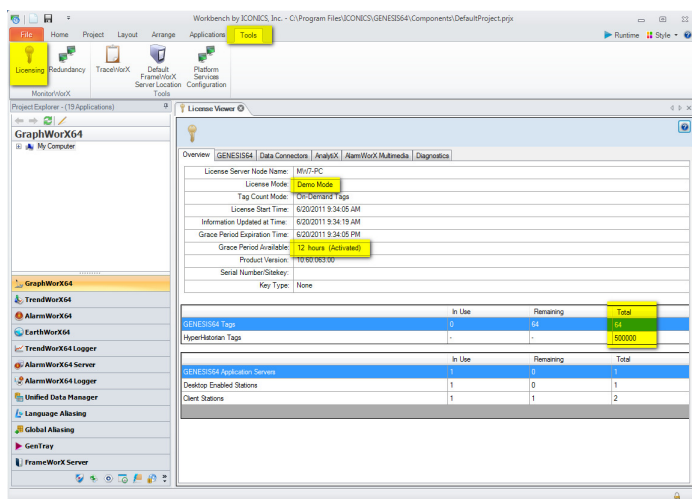


Figure 1 - GENESIS64 License Overview (Demo Mode)

Server Options

What are the Development Licensing Options?

Developer Station option bits are required for configuration. Refer to Figure 2 for an image of the GENESIS64 License Viewer which shows separate Developer Station Bits for the GENESIS64 Platform Services, GraphWorX, AlarmWorX and Hyper Historian. The Development option bits are provided with the model WEBHMI-DEVCAL, which also enables one floating runtime client. The Application Server models of GENESIS64 (models xxx64-APP-xxx) include Developer Station bits for each of these products, as does the Hyper Historian and certain AnalytiX product bundles as indicated on the respective price lists. The standard Demo license also provides Developer Station capabilities. Runtime licenses do not provide Developer Station bits.

Configuration with Developer Stations can be local with Desktop option, or across the network or Web. Note that most ICONICS products visible as providers in the Workbench are available for remote configuration. However in V10.6 some products must be configured from a local desktop, such as the optional BizViz ReportWorX V9.2 product.

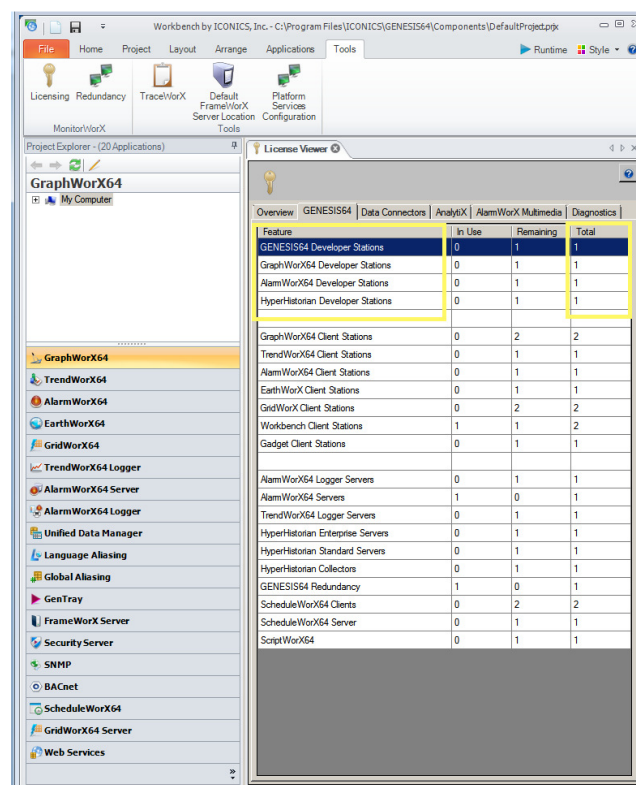


Figure 2 - GENESIS64 Detail Licensing (Demo Mode)

It is possible to combine multiple WEBHMI-DEVICAL licenses into one license key to support concurrent development such that multiple people can collaborate on the same project from different Workbench64 or GraphWorX64 developer stations. The number of WEBHMI64-DEVICAL licenses installed determines how many stations (including local Desktop) can be used to configure projects concurrently from one license server.

Runtime models do NOT permit configuration. They are intended for machine builders, or those with multiple GENESIS64 Applications running on the same license key, which share a common pool of Developer Station bits. It is recommended to purchase at least one WebHMI-DEVICAL for each GENESIS64 Application Server license.

Qualified systems integrators may purchase System Integrator Partner (SIP) plans that provide time-limited consignment licenses for configuration and test on their local system. Projects may be transferred to a system running under a Runtime license using the Workbench “Pack and Go” and “Unpack Project” features. Demo and SIP consignment licenses may not be used to configure a machine that has been activated with a Runtime license.

What is included in a GENESIS64-APP-xxx License?

V10.6 GENESIS64 Application Server Runtime with Development licenses include GENESIS64 Tags according to the license purchased and one each of: GENESIS64 Application Server, Desktop Enabled Client Station, all Developer Station options, all Client Station Options, AlarmWorX64 Logger and Server, TrendWorX64 Logger and Server, ScheduleWorX64, GridWorX Server, ScriptWorX64, BACnet option, SNMP Option, Modbus Serial OPC Server Option, Modbus Ethernet OPC Server Option and the Unified Data Manager.

How are Redundant Servers Licensed?

Simply purchase two identical GEN64-APP-xxx, GEN64-RT-xxx or Hyper Historian Enterprise servers and set as a redundant pair through the ICONICS FrameWorX64 configurator.

Redundancy is available for live and historical data. Add a redundant Hyper Historian pair to a redundant GENESIS64 Application Server pair using models GEN64-HH-R-xxx for discounted bundle pricing. Add redundant clients with WEBHMI64-BRWSR-R models.

How is the Hyper Historian Licensed?

The Enterprise Edition (models GEN64-HH-ENT-xxx) supports Redundant Configurations, Distributed Collectors, Store & Forward, and Multiple CPU Applications; the Standard Edition does NOT. GEN64-HH-ENT models include two distributable collectors. Add additional distributed collectors with model GEN64-HH-COLLECTOR. TrendWorX64 is limited practically

to log a few thousand data points per second. Use Hyper Historian for high-throughput and redundant applications.

How are Device Communication / OPC Servers Licensed?

ICONICS Modbus Serial and Modbus Ethernet OPC Servers are included with GENESIS64 and AnalytiX V10.6 models. BACnet and SNMP direct connectivity are included with the GENESIS64-APP, -RT, and Hyper Historian models. BACnet and SNMP Connectors may be purchased separately and added to GWX, AWX and LT models. Other data communication must be provided via separately purchased OPC Servers. ICONICS recommends the ICONICS OPC Server Suite for OPC UA or DA communications.

How is AlarmWorX64 Multimedia Licensed?

AlarmWorX64 Multimedia is licensed with several options: Lite, Standard, Enterprise, Remote Clients, and AlarmWorX64 Multimedia 75.

The standard version of AlarmWorX64 Multimedia has model AWX64MMX-STD V10. It provides all available agents, plus one AlarmWorX64 Multimedia Client Access license model AWX64MMX-CAL. The agents include: Remote Paging and Simple Messaging Services (SMS), E-mail, Pop-Up Applications, Software Marquees, Sound/Voice Annunciation, Skype Messaging, Telephony Dial-In/Out, FAX Notification, Hardware Marquees, Task Tray and Video-Image Agent. AlarmWorX64 Multimedia Alarming inherits the tag limit of the GENESIS64 license server it uses, but has unlimited tag connectivity when installed stand-alone.

Some of the AlarmWorX64 Multimedia agents are distributable to multiple PC's. Distribution of these agents requires licensing via an AlarmWorX64 Multimedia Alarming Client Access License (model AWX64MMX-CAL V10). These distributable agents include: Pop-Up Applications, Software Marquees, Sound/Voice Annunciation, Skype Messaging, FAX Notification, Hardware Marquees, Task Tray and Video-Image Agent, all with remote configuration via the GENESIS64 Workbench. The “FAX Notification & Hardware Marquees” does not support remote installation.

Other licensing bundles include a Lite version with the Alarm Server, email and paging agents. An Enterprise version provides 25 MMX CALs for a discounted price. The AWX64MMX-75 provides the Multimedia Alarming function with a 75-tag AlarmWorX64 server.

Remote and Combined License Features

The Version 10.6 licensing allows one or more model numbers to be combined into a single licensing key, which can in turn be used to license one or more local or remote Application Servers. Model combinations are restricted such that GEN64-APP and -RT models may be added to one-another and to AnalytiX models. GWX64 and AWX64 models may be added to one-another. GEN64-LT models may be added to one-another. Hyper Historian may be added to any license key.

In this way one may increase Tag Count, add GENESIS64 or Hyper Historian Application Servers, add AnalytiX features, add optional components such as AlarmWorX Multimedia, or increase AnalytiX Asset counts simply by purchasing an additional product code and using the ICONICS Web Licensing to add the features to the license key. Examples:

1. You own a GEN64-APP-1500 V10 license; Purchase a GEN64-RT-150 V10. The resulting license has 1650 GENESIS64 Tags with two GENESIS64 Application Servers, one DEVCAL and one WEBHMI64-BROWSER.
2. You own an AX-EA-25 V10 with 150 GENESIS64 Tags; Purchase a GEN64-RT-5000 V10. The resulting license has 5150 GENESIS64 Tags with two GENESIS64 Application Servers, one Development Client, one WEBHMI64-BROWSER license and one AX-PWX-CLIENT license.
3. You own a GWX64-APP-150 V10. Add on a GWX64-RT-75 V10. The resulting license has 225 Tags.
4. You own a GEN64-LT-75 V10. Add on AWX64MMX-STD V10. The license has 75 Configured Mode GENESIS64 Tags, AlarmWorX64 Multimedia Server, Agents and MMX CAL.

Tag Count Options

Can I add GENESIS64 or Hyper Historian Tags together?

The Version 10.6 licensing supports the combination of multiple purchased product tags to be combined onto a single licensing key. If multiple model products each with Tags are combined onto one license key, then the GENESIS64 tags will add together. Hyper Historian Tags are counted separately from the GENESIS64 tags and also add together within the Hyper Historian Tag Count. The tag counts become available for multiple Application Servers on a network configured for Platform Services Remote Licensing.

What “Tag Count Modes” are Available?

You may purchase licenses with GENESIS64 Tag Count Mode as either “Configured Tags” or “On-Demand Tags”.

“On-Demand” Tag Count Mode licensed systems dynamically count actively connected Tags. This method allows for large numbers of data connections to be configured within the

ICONICS applications with the advantage that only those in use are counted against the license. It allows direct browsing over the network to connect to OPC, BACnet, SNMP or other supported data sources from the Unified Data Manager, GraphWorX64, TrendWorX64, AlarmWorX64, GridWorX64, Hyper Historian, and other GENESIS64 applications. GENESIS32 users will be familiar with this licensing method because it is the only method available for GENESIS32.

The “Configured Tags” Tag Count Mode license restricts configuration of data connections to those tags configured through the ICONICS Unified Data Manager, which acts as a central tag database for GraphWorX64, AlarmWorX64, TrendWorX64 and GridWorX64 applications. All GENESIS64 Tags configured through the Unified Data Manager are counted against the GENESIS64 Tag Count purchased. This method will be familiar to users of many tag-database SCADA systems. “Configured Tags” do not apply for Hyper Historian.

When editing GraphWorX displays or configuring the GENESIS64 servers under the “Configured Tags” Tag Count Mode, one must obtain data connections for OPC, BACnet, SNMP and other data sources via the Unified Data Manager. The Workbench is used to build a library of Registers and Expressions within the Unified Data Manager. The ICONICS application configurators reference the Registers and Expressions for their dynamic data.

What Tag Types are Available?

GENESIS64 Tags and Hyper Historian Tags are licensed separately and counted independently.

Tag count from a license server may be distributed across one or more GENESIS64 Application servers in a network. GENESIS64 and Hyper Historian tag counting is **dynamic and additive**. For instance, one may distribute a 250,000 Tag GENESIS64 license into several virtual PC's running on one physical machine, plus a dozen other physical or virtual PC's on a network. Each active GENESIS64 Application Server will draw from the license pool, and every active tag in each server consumes “in use” tags, up to the total 250,000 available. Note that each of these distributed servers also requires a GENESIS64 Application Server license on the license key.

What is the Difference between a GENESIS64 Tag and a Hyper Historian Tag?

Tags for GENESIS64 and Hyper Historian are counted separately. The same tag used once in a GraphWorX64 display and once in Hyper Historian will be counted once as a GENESIS64 tag and then once as a Hyper Historian tag. The tag counts for GENESIS64 and Hyper Historian are completely independent.

Client Options

Clients Station licensing allows the enabled viewer applications to connect and present data from the GENESIS64 servers in Web browsers over the local area network, wide-area network or the Internet for WEBHMI or PortalWorX client functionality. Desktop Enabled Stations also allow running locally as a thick client “Browser” with local installation of the GENESIS64 Application Server with local Platform Services running.

The WebHMI64-BROWSER V10 model provides both “Client Station” and Desktop Enabled Station licenses for convenience.

One or many clients may be purchased and combined onto a single license key and consumed by clients connected to one or many GENESIS64 or AnalytiX Servers in a system.

How does Client Station Licensing Work?

Each WebHMI64 Browser or PortalWorX Client license enables data visualization for the applications licensed on the GENESIS64 license. Options include GraphWorX64 Client Station, TrendWorX64 Client Station, AlarmWorX64 Client Station, EarthWorX Client Station, GridWorX Client Station, Workbench Client Station, Gadget Client Station, and ScheduleWorX64 Client Station. Each Client Station type is counted independently by the licensing server as may be seen in Figure 2 above. In cases where GraphWorX64 or AlarmWorX64 are provided separately, the Client Station license provided is limited accordingly.

What is a WEBHMI64-BROWSER?

WEBHMI64-BROWSER license enables GraphWorX64, AlarmWorX64, TrendWorX64, ScheduleWorX64 or GridWorX interactive visualization on a Web-based browser client or a thick client Desktop machine with locally installed GENESIS64.

WebHMI64 Browsers support full two-way interactive view and control of applications and the full ICONICS security methods. WebHMI64 clients may run on Microsoft Internet Explorer browsers on machines with the .NET Framework installed, which support the full 3D and other capabilities of a native browser. Or, alternatively, WebHMI64 clients can run as super-thin clients on any Web browser that supports Silverlight controls.

NOTE: There are certain limitations of Silverlight clients that you should keep in mind. Please consult GENESIS64 help files to learn about the limitations.

The number of WEBHMI64 Browser licenses on your license determines how many Client Stations (including the local

Desktop station) can be viewing displays at once. The licensing server counts the number of concurrently connected WebHMI64-Browser Client Stations, which become free to float to another browser once disconnected from the application server.

Note that the specific View Clients licensed on the server will determine what a client using a WEBHMI64-BROWSER license has access to. For example, if a WebHMI client is using a WEBHMI64-BROWSER license coming from a server that has only the AlarmWorX64 View Client then that WebHMI client will only be able to view AlarmWorX64 displays, not GraphWorX64 or TrendWorX64 displays.

What is a WEBHMI64-DEVCAL?

A WEBHMI64-DEVCAL V10 license allows you to configure or develop GraphWorX64 displays and the GENESIS64 server components via Workbench64 including AlarmWorX64, TrendWorX64, Unified Data Manager and Hyper Historian from a network-based client. Add multiple DEVCAL licenses to a single license key as desired.

Note that there are four different Developer Station license options as depicted in Figure 2. AlarmWorX64 Application Server licenses (models AWX64-APP-xxx) include the AlarmWorX64 Developer Station license, GraphWorX64 include the AlarmWorX64 Developer Station license, etc., but do not include full WEBHMI64-DEVCAL V10 features.

How does Redundant Client Licensing Work?

A separate client license must be installed on each server in a redundant pair, such that when a client fails over to the backup server, that the client license is visible to the client. Special discounted licensing is available for redundant client applications. WebHMI64 Browsers include intelligence for automation failover to the active server.

AnalytiX Product Licensing

How are AnalytiX Products licensed?

In Version 10.6, Energy AnalytiX and Facility AnalytiX require PortalWorX to deliver visualization. Energy AnalytiX and Facility AnalytiX products require the GENESIS64 Application Server and PortalWorX Server. Refer to Figure 3 for AnalytiX licensing options.

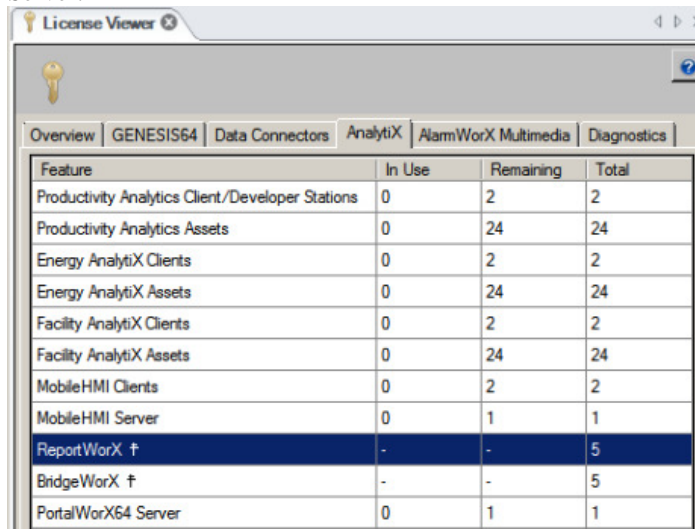
Energy AnalytiX is offered stand-alone to add onto existing GENESIS64 system, or in bundles that include GENESIS64 Application Server with a number of GENESIS64 Tags. Bundles contain a number of Energy Assets, and a number of GENESIS64 Tags, plus the ReportWorX Server with a number of Reports, PortalWorX Server, one AnalytiX Client, BACnet, SNMP and Modbus connectivity and the GENESIS64 Developer Station options for configuring the GENESIS64 components from the Workbench.

Add on additional Assets, Clients and Reports as necessary. Purchase additional GENESIS64 models to add GENESIS64 Tags.

How are AnalytiX Clients licensed?

AnalytiX Clients provide visualization for Energy AnalytiX and Facility AnalytiX server data with models AX-CLIENT V10.

PortalWorX Clients provide AX-CLIENT connectivity plus one floating Client Station with Viewer Web Parts for GraphWorX64, TrendWorX64, AlarmWorX64 and GridWorX64. PortalWorX Clients are ordered with model AX-PWX-CLIENT V10, and must be licensed with PortalWorX Server.



Feature	In Use	Remaining	Total
Productivity Analytics Client/Developer Stations	0	2	2
Productivity Analytics Assets	0	24	24
Energy AnalytiX Clients	0	2	2
Energy AnalytiX Assets	0	24	24
Facility AnalytiX Clients	0	2	2
Facility AnalytiX Assets	0	24	24
MobileHMI Clients	0	2	2
MobileHMI Server	0	1	1
ReportWorX †	-	-	5
BridgeWorX †	-	-	5
PortalWorX64 Server	0	1	1

Figure 3 - AnalytiX Licensing in Demo Mode

What is the Grace Period?

Active GENESIS64 licenses include a 64-hour Grace Period that allows the applications to continue to run in the event that the licensing service becomes unavailable. In Demo Mode, the Grace Period appears as 12 Hours.

What are the Differences between Hardware and Software Licenses?

GENESIS64 licensing options are identical for hardware key and software key licenses. Each may be programmed via the ICONICS Web Licensing Utility. Please refer to the separate application note on Web Licensing. ICONICS recommends using Hardware keys to avoid the loss of license due to unpredictable hard drive failures or conflicts with other software.

Emergency License

In case you have lost the ICONICS product license, please refer to the application note “*Licensing – Using the ICONICS Web Licensing Utility for Software Key Licenses*”, which explains a procedure for activating a 60-day emergency license and steps you need to undertake to restore your permanent license key.

Trial License

It is also possible to activate a one-time 30-day trial license directly from the product disc without having to contact ICONICS. From the License Utility, you can select the **Activate Trial License** button to activate a temporary license that will last for 30 days. In case of emergency, this temporary one-time 30-day license can be activated through the ICONICS License Utility. This temporary 30-day license can be used only one time on any one computer, and may not match the product license purchased. Keep in mind that it will provide a limited set of product features that may not provide the full functionality of the purchased products as opposed to the SupportWorX/Web Licensing 60-day emergency license described above.

Safeguard Your License

For more information, please refer to the application note on the product DVD or CD called “Licensing – Do’s and Don’ts”. This application note can also be found in the Info Center section of the new ICONICS Web Licensing Utility. Access the ICONICS Web Licensing Utility at: www.iconics.com/support/supportworx.asp

To request replacement of a software key or hardware key, you must complete the applicable ICONICS Key Replacement Form. The forms are located in the Key Replacement section of the ICONICS Web Licensing Utility.