



GENESIS64 – Using Application Desktop or WebHMI Client



APPLICATION NOTE

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Description: Guide to explain the differences between GenBrowser and WebHMI products

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

General Requirement: Knowledge of GENESIS64

Introduction

The ICONICS GENESIS64 suite has the ability to be installed on multiple machines in the form of a GenBrowser or WebHMI Client. There are many reasons why one might want to use GenBrowsers or WebHMI Clients instead of a full GENESIS64 installation and can include, but are not limited to:

- Smaller installation footprint
- Less overhead caused from running applications
- Cost effective Floating/Concurrent “Shared” Licenses
- Only standard PCs required for clients
- No conversions necessary, close approximation or simulation of GENESIS64 files or configurations
- Windows Authentication level security providing granularity in HMI access control through a centralized Security Server

WebHMI Client

A WebHMI Client is considered a “Thin Client” because it can be viewed from any remote computer using Windows Internet Explorer v6 and up. Some of the key benefits of a WebHMI Client can include:

- View and Control over internet or intranet
- No pre-installation on client computers
- Software upgrades required on Server only. Clients will automatically get updated if new files are available
- Central configuration and development changes possible on Server only

For more information on how to run GENESIS64 in Internet Explorer, please refer to our other Application Notes.

GenBrowser

A GenBrowser (also known as a “GENESIS64 Browser Node”) is considered to be in the middle of the GENESIS64 and WebHMI Client spectrum.

Some important details to keep in mind for a GenBrowser are:

- Can run all GENESIS64 applications
- Graphic displays can be centralized on a Server or distributed residing on each GenBrowser node
- Requires remote license

- Requires remote OPC data
- Can also run any third party applications alongside the GenBrowser

Since actual GENESIS64 components are installed, you could run the applications in its own container instead of running it in Internet Explorer. In general ICONICS suggests using GenBrowsers for critical operation control functions.

Redundancy Features

Both GenBrowsers and WebHMI Client support runtime switching. In addition, GenBrowsers can run AlarmWorX64 and TrendWorX64 (e.g. logging locally) to collect remote data. WebHMI supports IIS Redundancy via MS Network Load Balancing.