



Workbench32 – Running in Internet Explorer



APPLICATIONS NOTE

October 2013

Description: Guide to configure GENESIS32 applications in Internet Explorer via the Workbench32.

OS Requirements: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7

Server Requirements: The server machine should have IIS 5.1 or higher. GENESIS32 should be installed on your server machine, with WebHMI and Workbench32

Client Requirements: The client machines should have at IE 7.0 or above.

Introduction

GENESIS32 contains WebHMI features that allow connecting any clients via Internet Explorer v7 (or higher), even on machines based on 64 bit operating systems. In this document, we will detail the steps necessary to setup this remote communication.

Server Side Settings

We will assume that you have the standard GENESIS32 samples and the standard Workbench project that is available with the GENESIS32 installation. All necessary settings are set during the product installation, and described hereafter.

Workbench is a centralized configuration and runtime tool. You can open your GENESIS32 configurations (AlarmWorX32 Server, TrendWorX32 Logger, etc). You can do this from the tree control by default located on the left hand side of the Workbench. You can also open more items on different tabs so that the view suits your needs best. For more details, please see the Workbench documentation.

Client Side Settings

We support remote configuration through IE in this version. The remote computer can be a 64 or 32 bit operating system. You'll need to download and install **Microsoft .NET Framework 3.5** or above. Listed below are the sites where you can download a version of it:

- .NET 3.5:
<http://www.microsoft.com/downloads/details.aspx?familyid=333325FD-AE52-4E35-B531-508D977D32A6&displaylang=en>

Once you have the .NET framework installed, you need to add your GENESIS32 web server to the trusted sites of the client machine. You can use the Microsoft Management Console (MMC) to configure the .NET Framework security.

1. Open Internet Explorer Options, and go to the Security tab.

2. Selected the Trusted Sites option and click on the "Sites" button to add the web sites <http://MyGENESIS32Server> and websites stated bellow to the Internet Trusted Sites.
 3. Modify .NET Framework security using the Caspol utility. The utility is automatically installed with the .NET Framework and does not require any SDK. The location of the executable is in Windows\Microsoft.NET\Framework\v2.0.50727. Open the command prompt and do the following:
 - a. Execute the following command line: `caspol -cg Trusted_Zone FullTrust` (this will apply the permission set "FullTrust" to the Zone "Trusted")
 - b. If you want to check whether the permission set has been correctly applied, you can run the command line: `caspol -lg`
 4. At this point verify you can connect to the Workbench32 server by navigate to <http://MyGENESIS32Server>. You should see a default welcome site from your IIS server.
 5. Next, navigate to <http://MyGENESIS32Server/webhmi/samples/workbench32.htm> to run GENESIS32 Workbench in your Internet Explorer. When the components are downloaded, you should see the workbench.
 6. If your server is running IIS7 or later, follow this step, otherwise, you can skip to the next step. Find the applicationHost.config (usually in \Windows\System32\inetsrv\config) and open it with a text editor. Find the line:
`<add fileExtension=".config" allowed="false" />`
and change the allowed to true. The changed line should look like:
`<add fileExtension=".config" allowed="true" />`
- NOTE:** If the Workbench32 is running on the server, you will not need to change anything here.
7. If you press F11, Internet Explorer goes to the full screen mode, this way you can hide the IE navigation and menu bar. Note that in this way you can work with GENESIS32 Workbench using all features as if it were installed locally on a 64 bit operating system. You can use the Unified Data Configurator in Runtime or load the configuration tools inside Workbench. This allows you to view all displays and maintain configurations.