



Description: Overview of the steps required to set up a WebHMI server and client.

OS Requirement: Windows NT/2000/XP/2003

General Requirement: A general knowledge of GENESIS32 and Web applications is required, as well as the following:

SERVER MACHINE

- GENESIS32 installed
- A Windows CD for installing IIS
- Logged in as at least a power user

CLIENT MACHINE

- Should not have GENESIS32 installed
- Internet Explorer 5.5 or above required
- Logged in as a user with permissions to download and install ActiveX controls

including node names or IP addresses in the OPC tag paths and subscriptions as follows:

\\ServerMachine\OPCServer\Group.SubGroup.Tag

4. Publish your displays to your Web Server using the Web Publishing Wizard. See the application note entitled “WebHMI Web Publishing Wizard Quick Start” for assistance.
5. Run the GenBroker Server on the WebHMI server machine. This needs to be running at all times for the clients to be able to communicate OPC with the server. The GenBroker Server can be started using GenTray, as shown in **Fig. 1**.



Fig. 1: Start GenBroker from GenTray

How Does WebHMI Work?

The following is an explanation of what happens between a WebHMI Server and Client:

1. Web client requests data (HTML/images/CAB/GDF/GBX) from the server via standard HTTP.
2. The runtime components are all packaged up in separate CAB files. Internet Explorer knows how to install the components of the CAB files and takes care of the dependencies (via .INF files).
3. The client downloads the GenBroker configuration file (GBX file) and from that file decides *how* (port 38080, TCP/IP by default) and from *whom* to get OPC data, licensing, security, Global Aliasing & GenEvents.
4. Once GenBroker communications are established, data flows constantly via GenBroker communications until the session ends either by browsing away from the page or closing Internet Explorer.

Setup Required for the Server

The following steps should be taken **on the WebHMI Server machine** to set up a your WebHMI server:

1. Install the Web Server: Internet Information Services (IIS). This step **MUST** be done before installing WebHMI.
2. Install ICONICS WebHMI after the Web Server is installed.
3. Create your GENESIS32 network friendly displays (e.g. GraphWorX32, TrendWorX32, or AlarmWorX32 displays). Make sure that they are network friendly by

Setup Required for the Client

The following steps should be taken **on the WebHMI Server machine** in order to set things up for the WebHMI clients:

1. Configure a WebHMI GenBroker Configuration (.gbx) file using the **Client Configuration** tool (**Start → Programs → ICONICS WebHMI → Client Configuration**). You can choose to use **default.gbx**, supplied during installation if it is appropriate for your network setup found in **C:\Program Files\Common Files\ICONICS\WebHMI\Samples**.

NOTE: Any time your .gbx file is changed or configured, the GenBroker Server should be stopped and restarted, and the temporary Internet files should be cleared from the web clients. This will ensure that the latest configurations are being used.

2. Refer to your configured .gbx file when publishing displays in the **Advanced Publishing Options** (either **as configured in WebHMI** or **user defined**). The **as configured in WebHMI** option will refer to the **default.gbx** file.