FAQ COMBIVIS studio HMI

Create and handle HTML5   FAQ No. 011

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en	5.0.1183.65	001	2020-05-20	Released

Content

Introduction

This FAQ is a short manual for using the HTML 5 function in COMBIVIS studio 5. HTML 5 is a web client solution for access to the SCADA function about the internet browser.

<u>**Hint**</u>:
(Only in a local network. Not over the internet)

The entire computing power takes place on the server side (COMBIVIS studio HMI). The BMP images of the process screens or process screen sections that need to be updated are transferred from the server to the web client.

No web server needs to be installed or a virtual folder needs to be configured on the COMBIVIS studio HMI server side. No Java virtual machine has to be installed on the client devices running the web client.

<u>**Hint**</u>:
It's mandatory to use COMBIVIS studio HMI and runtime version 5.0.1183.65 or higher

Configure HTML 5

After creating a new project or opening an existing project, this is a short overview about the necessary settings. In COMBIVIS studio HMI you can select special settings for the networking under Networking.
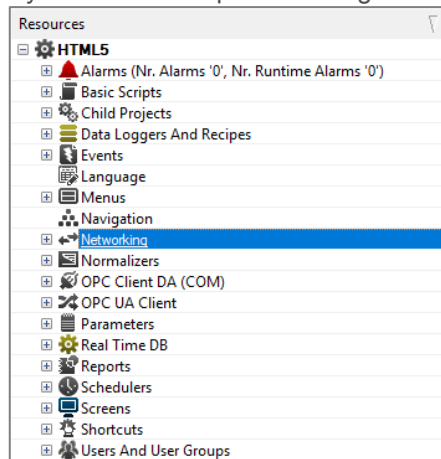

Figure 1: Select Networking in the navigation bar

Networking is the main point for the settings of network server, http transport and websocket server. For HTML 5 is only the point "Websocket Server" needed.
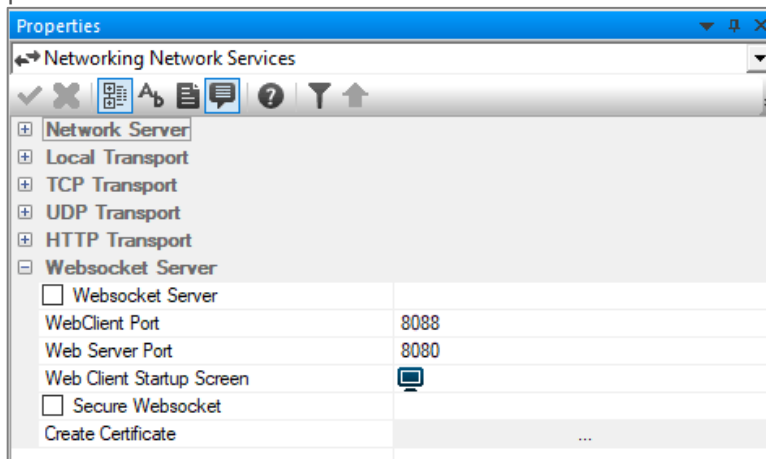

Figure 2: Settings for Networking

Websocket Server:	Activate the Websocket Server
WebClient Port:	Default Port for the client is 8088.
Web Server Port:	Default Port for the server is 8080.
Web Client Startup Screen:	Default start screen is the start screen from the HMI project
Secure Websocket:	Activate the certificate for the HTTPS transfer
Create Certificate:	For the secure websocket it will be need a certificate

Call the websocket server from the local device

For start up the web client session locally, open the browser on the device and enter the following address.

http://localhost:8080

For the port specification the set port must be used. You can set the "Web Server Port" (default 8080) with any value but you will need to make sure that the value you set does not come into conflict with other applications running in the system that use the same port value.
Hint:
You can't use the internet browser on WinCE (smaller since version 6.1)

Call websocket server from other devices in the network

For start up the web client session from a network machine, make sure that the COMBIVIS studio HMI server machine is reachable over the network. Open the browser and enter the following address.

http://<Server_Name>:8080

For <Server_Name> can use the IP address or the windows name of the computer/PLC, where the COMBIVIS studio HMI is installed.

Call websocket with using the HTTPS protocol

It is possible to establish a web client session in HTTPS mode to the Websocket server of COMBIVIS studio HMI. Select one of the following manuals.

Win32

1. Enable the „Secure Websocket" option in the „Networking – Websocket Server" properties
2. Create certificates from COMBIVIS studio HMI: among the properties of the "Networking" resources press "Create certificate".
   - Moving to the path C:\ProgramData\KEB\CombivisStudio\ will be found the "cert" and "private folders containing the *.DER and *.PEM certificates
   - The "WebCfg.xml" file will be generated in the project folder
   - If necessary, edit the "WebCfg.xml" file setting with the paths to reach certificates files *.DER and *.PEM
3. From web client you have to open the page using the address:
   https://<URL_SITE>:8080
   <URL_SITE> is the name, which is set at point 3

WinCE

1. Create the „cert" and „private" subfolders in the project folder
2. Copy the "*.DER" certificate to "cert" and the "*.PEM" to "private"
3. Change the "HKLOCALMACHINE / Ident / Name" registry key by setting the name Host
4. Enter the hostname in the <WHost> hostname </Whost> section of "WebCfg.xml"
5. Change the path to certificates:
   <WCert> your / path / *.DER </WCert>
   <WKEY> your / path / *.PEM </WKEY>
6. From Web Client you have to open the page using the address:
   https://URL_SITE:8080
   URL_SITE   is the name, which is set at point 3

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