



**SpiderControl™**  
**MICROBROWSER**

**iOS Edition**

 **Net**

**ini**

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**iniNet . Erfolgreiche Kunden**

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## Abbreviations

### **MMI**

Man Machine Interface, e.g. a SpiderControl™ views displayed at a touch panel or browser.

### **\*.prj**

File extension for a SpiderControl™ project file generated by the SpiderControl™ EDITOR.  
A SpiderControl™ project comprises everything to form a MMI on a touch panel or in a browser.

### **View**

A view is what the user of a MMI sees at one moment inside a window or a browser. A \*.teq file implements a view.

### **\*.teq**

File extension for a SpiderControl™ view file generated by the SpiderControl™ EDITOR.

### **Painter**

A painter is a graphic object, which is used by the SpiderControl™ EDITOR. This object is programmed in JAVA. Several painters were packed into a Applet which resides on an embedded system.

### **Applet**

is a Java program, which can be launched in a browser from within a HTML page.

### **PPO**

Stands for Process Point. A process point is a variable of the user application that should be made visible towards the MMI.

### **Container**

A container is a local variable, which has a scope within the actual applet/view. Containers are used to exchange values between different painters in a view or between different views of the same applet

## Installation

This software is written for use on Apple iOS Operating Systems, namely iPad and iPhone.

### **System requirements**

The SpiderControl MicroBrowser needs less than 1 MB free space on the disk and requires at least 32 MB of RAM.

## First Steps

After the successful installation, the following screen appears when you first start the app:



A press on the button "Settings" allows entering the configuration of the MicroBrowser.



The next step is to press on an empty field, just on the left of a note pad symbol. Each field corresponds to a configuration setting, i.e. an URL of a HMI.



### Name

Enter in the first field a user-defined name for the configuration setting. The first line asks for the IP-Address of the target system webserver, where the SpiderControl MMI's are located. If your network has a DNS (Name server) and your local TCP/IP configuration on the WinCE device is configured to know the name server's address, you can alternatively use a symbolic host name instead of the IP address.

### URL

Enter in the second field the URL to the corresponding HMI.  
Ex.: <http://192.9.225.57/start.html>

Confirm the configuration by pressing the accept button.



The next time the MicroBrowser is started the last entered configuration can directly be accessed by pressing on the corresponding field.

# CoDeSys Visualizations

## Supported Features

The MicroBrowser supports visualizations designed with CoDeSys 2.x, given that the corresponding version was purchased.

The following visualization elements are supported:

- Rectangle
- Ellipse
- Polygon
- Polyline
- Curve
- Pie
- Bitmap
- Visualization
- Button
- WMF file
- Table
- Trend
- Alarm table
- Scrollbar
- Meter
- Bar display
- Histogram

While these configuration possibilities are NOT supported:

- Tooltip-display
- Keyboard shortcuts
- Run external program
- Watchlists / Receipts
- Special Input Possibilities
  - DEFINERECEIPT
  - READRECEIPT
  - WRITERECEIPT
  - SAVEWATCH
  - LOADWATCH
  - CONNECT\_TO

## Exiting the MicroBrowser

There is a possibility to configure a button to quit the MicroBrowser. To do so, one have to configure the button with the intern command: "INTERN EXITPROGRAM" (in the tab "input->Execute program").



## Codesys MicroBrowser FAQ

Following questions are being asked often concerning the MicroBrowser CoDeSys

### **I can't connect! It says "File Not Found!"**

This most often has 2 possible causes:

1. Older versions of the MicroBrowser Codesys (prior to 1.5.15.116) don't support the option "compressed webvisu".

2. Some Codesys PLC's are case sensitive. Older versions of MicroBrowser Codesys get the entry page with the name "PLC\_VISU.xml" written in big letters. But the file on the webserver is written "plc\_visu.xml". Possible workaround: Modify the "webvisu.htm" File on your PLC and change this line:

```
<param name="STARTVISU" value="PLC_VISU">
```

to

```
<param name="STARTVISU" value="plc_visu">
```

### **Why are Arrays not displayed correctly?**

Normally Arrays are not working with the applet from Codesys itself. But with our MicroBrowser Codesys it is possible, BUT the indexed variants of the needed Arrayelements must also exist in the view, because otherwise the variable address is unknown. Example:

.g\_afb\_GF[g\_index].i\_bo\_Configured is a indexed variant which can be read and written with MicroBrowser Codesys, but you must already know during buildtime of your project, which indexes are used, and you then have to also include the resolved variant of the variable in the view: .g\_afb\_GF[6].i\_bo\_Configured (For instance in a hidden textfield)