embedded|webGUI - The universal web-based user interface for embedded systems

embedded|webGUI is a unique software platform for the development of high quality graphical user interfaces for embedded systems with a touch screen, which require full transparent remote access from the internet or local network. It can be used in industrial systems as well as in building automation or many other applications. embedded|webGUI is fully based on the standardised web technologies HTML, CSS, JavaScript and AJAX. Local display on the automation system is done by an embedded web browser. In remote access, the user interface can be displayed in a standard web browser on any web-enabled device (smartphones, tablets, PCs, touch panels, …). Menu structures and contents are defined in tables and can easily be adapted, as well as the high-quality screen design, which supports transparency effects and individual background images. embedded|webGUI offers a large set of menu building blocks with various objects for the display and input of different parameter types, such as numerical parameters, selection lists, text, date and time and many more. Smartphone-style icon menus are supported as well as a high-quality measurement graph showing time curves and system states. A flexible user and access rights management is also included. embedded|webGUI makes local operation and remote access fully transparent, i.e. the user experience is identical. Development effort and time are significantly reduced by the use of only one consistent user interface for local and remote operation. Hardware requirements are moderate. Thus, the first application of the embedded|webGUI is running on an ARM9 platform with 200MHz and an embedded Linux operating system.