

# WEBICC SCADA

web-based SCADA software.



## Features

- Enables 100% web-based remote engineering, monitoring, and control
- Supports standard protocols including Siemens S7, Modbus RTU, Modbus TCP/IP, OPC UA, Ethernet/IP, BACnet, WEBAPI, MQTT Client
- Possibility of Cloud integration, another level of process monitoring
- Remote monitoring and configuration of SCADA applications with any smart device connected to the Internet
- It has as a component the best performing software application for generating online reports
- The same WEBICC SCADA application runs on both: PCs, Raspberry Pi, Touch Panel PCs
- It runs on both Windows and Linux
- Online authentication with software license registration

## Introduction

1. **WEBICC** is the ideal software solution for the digitization of industrial companies with the help of the new IIoT (Industrial Internet of Things) technologies and is a 100% configurable SCADA application development environment based on RAD (Rapid Application Development) WEB technologies. Thanks to modern web technologies, the visualization of the targeted technological processes can be performed with any free browser type application and with any smart device.
2. Is a scalable platform from small projects using Raspberry Pi type servers to projects that require many facilities such as dedicated servers. This online SCADA application development environment does not require applications to be installed on the host computer, everything is done online through restricted access. A very big advantage is the fact that **you don't have to write a single line of code**, it's intuitive, right for which it can be configured even by staff without professional studies.
3. It is an environment that allows remote configuration, updating and monitoring of equipment, projects and systems around the world through a standard web browser, thus saving time and costs with traveling to these objectives.
4. An important facility is the fast switching between the editor mode and the running mode, also called **On-The-Fly**. Thanks to this switching facility, you can see the results instantly without software compilations and without stopping the software application.

## Software Specifications

### 100% Web-Based Architecture

WEBICC is a SCADA software platform 100% based on web technologies. This provides integrators with a unique environment for remote development and maintenance, allowing access and manipulation of data stored on a central server. This enables remote configuration, change/update and monitoring of equipment, projects and systems worldwide via a standard web browser, saving time that would otherwise be required for system development. WEBICC SCADA comes with unlimited WEB clients at no additional cost, which, compared to other similar products, can save a considerable amount of money for system integrators.



## Monitoring and configuration from any location

With the WEBICC configurable platform, in the case of adopting the solution in the Cloud, it does not matter the monitoring location of the desired technological process or with which smart device the visualization is done. Thus the notion of Local/Regional Dispatch broadens its meaning by the fact that the monitoring location becomes universal in terms of position and distance.

## Adaptability

Creation of SCADA wall-type screens without the need to purchase expensive graphics cards for splitting the graphic image. On a single Smart TV, of appreciable size, the screen can be divided into several parts with configurable sizes similar to the picture-in-picture function. Thus, the technologist operator has access to several active synoptic screens simultaneously in recommended combinations of 4/6/9 windows, but not limited to this number.



## Cross platform

WEBICC works regardless of the platform on which it is installed. It is fully compatible with Windows, Linux and MacOS operating systems. The architecture built on the latest modern technologies allows migration to any work platform. The system can be installed on computers with a server structure, touch screen industrial computers, desktop computers or even on smart mobile devices with lower performance mobile

## Industry 4.0

IIoT (Industrial Internet of Things) – WEBICC is a specially designed environment for the development of SCADA applications specific to industrial clients who want to migrate to the new revolutionary digital technology, Industry 4.0. It connects the physical world (sensors, smart devices, etc.) with the virtual world in cyber-physical systems and offers the possibility of re-technological production.

## Communication drivers

A fully configurable environment, WEBICC offers the possibility of interfacing with data acquisition hardware devices, such as PLC/RTUs, both by means of dedicated proprietary drivers for SIEMENS, SCHNEIDER, ALLEN BRADLEY, etc. PLCs, as well as universal industrial ones such as OPC- UA but also through MQTT, a driver designed and prepared for IIoT technology.

## Setting up events

Once the process tags are configured, event programming becomes easy by assigning the desired tags to the declared event, specifying the alarm value thresholds, the descriptive texts of the monitored event and the specific alarm color.

## Configuring tags

The mapping of memory addresses related to data acquisition devices such as PLCs is configured in the TagManagement editor in a very easy way, with just a few mouse clicks. This mapping is carried out according to the types of data found in the memory map belonging to the acquisition device by specifying the memory addresses.

## Archive with historical data

Archiving process tags is also very easy with minor configuration. The evolution of the recorded historical data can be visualized through historical trends, value tables and historical reports. Extracting data from the database in tabular formats is also very easy.

## Configuring reports

The report configurator found in the WEBICC development environment is the best on the SCADA development environment market in the sense that a report can be configured in any desired combination. It contains a suite of work tools for building the report such as static and/or dynamic graphic primitives. The built-in expression editor facilitates any desired calculation and combination of values. All procedures are guided by the drag&drop technique and it is not necessary to write a single line of code. The generated report can be exported in whatever format the user wants. Thus, reports can be exported in the following formats: .xlsx, .docx, .pdf, .bmp, .txt, etc. The reports can be configured both for events and for historical data.

## User configuration

Access to the runtime application is restricted, the user having to enter a username and password to access the application. All these attributes are 100% configurable. A name, password and authorization role (right) can be configured for each user. The latter specify which work areas the user can access. Depending on the user's role - administrator, technologist operator, electrical engineer, etc. - only graphic areas specific to each set role can be displayed.

## Configuring scripts

Particular functions can be created, with actions created by the programmer, which can be called in a specific action.

## Multitouch Gesture Support

WEBICC SCADA supports multitouch operation and various preset gestures for easy operation on Touch Panel PC devices, such as swipe to turn page and zoom in/out. This intuitive handling style increases usability and reduces training time. Additionally, WEBICC SCADA also supports multi-point touch/pinch/scatter gestures to initiate predefined actions.

## Configuring graphic screens

WEBICC has a powerful configurator for editing graphic screens. The basic element is represented by a very rich library of industrial graphic symbols, in SVG format, which can be inserted on the work surface through the drag&drop procedure. All graphic symbols can be resized, grouped, colored, rotated, moved as desired. Changing some properties (color, position, visibility, etc.) can be programmed without effort. Among these graphic symbols we list: graphic primitives, symbols grouped by industrial categories (motors, pumps, solenoid valves, liquid tanks, industrial pipes, mixers, buttons, safety, etc.). All graphic symbols can be combined in any desired scheme so that in the end the runtime screen displays the synoptic technological scheme as faithfully as possible.

## Maintenance configuration

It ensures the management of the maintenance activity of the equipment in a factory with the advantage of gathering operational information in real time.

## Multilingual

WEBICC offers a multilingual configuration environment through which the programmer can configure the language of the programming environment. These can be: English, Romanian, Russian, Chinese, Portuguese, Turkish, Spanish, etc.

Ordering Information	
<b>WEBICC Standard version</b>	<b>Catalog no. (SKF)</b>
WEBICC STANDARD V1.0 CS&RT 64 tags	WEBICC-ST64-1.0
WEBICC STANDARD V1.0 CS&RT 128 tags	WEBICC-ST128-1.0
WEBICC STANDARD V1.0 CS&RT 256 tags	WEBICC-ST256-1.0
WEBICC STANDARD V1.0 CS&RT 512 tags	WEBICC-ST512-1.0
WEBICC STANDARD V1.0 CS&RT 1024 tags	WEBICC-ST1024-1.0
WEBICC STANDARD V1.0 CS&RT 2048 tags	WEBICC-ST2048-1.0
WEBICC STANDARD V1.0 CS&RT 4096 tags	WEBICC-ST4096-1.0
<b>WEBICC Professional version</b>	<b>Catalog no. (SKF)</b>

## WEBICC SCADA

WEBICC PROFESSIONAL V1.0 CS&RT 64 tags	WEBICC-PRO64-1.0
WEBICC PROFESSIONAL V1.0 CS&RT 128 tags	WEBICC- PRO128-1.0
WEBICC PROFESSIONAL V1.0 CS&RT 256 tags	WEBICC- PRO256-1.0
WEBICC PROFESSIONAL V1.0 CS&RT 512 tags	WEBICC- PRO512-1.0
WEBICC PROFESSIONAL V1.0 CS&RT 1024 tags	WEBICC- PRO1024-1.0
WEBICC PROFESSIONAL V1.0 CS&RT 2048 tags	WEBICC- PRO2048-1.0
WEBICC PROFESSIONAL V1.0 CS&RT 4096 tags	WEBICC- PRO4096-1.0
<b>WEBICC Cloud Standard version</b>	<b>Catalog no. (SKF)</b>
WEBICC STANDARD VM V1.0 CS&RT 64 tags	WEBICC-VM-ST64-1.0
WEBICC STANDARD VM V1.0 CS&RT 128 tags	WEBICC-VM-ST128-1.0
WEBICC STANDARD VM V1.0 CS&RT 256 tags	WEBICC-VM-ST256-1.0
WEBICC STANDARD VM V1.0 CS&RT 512 tags	WEBICC-VM-ST512-1.0
WEBICC STANDARD VM V1.0 CS&RT 1024 tags	WEBICC-VM-ST1024-1.0
WEBICC STANDARD VM V1.0 CS&RT 2048 tags	WEBICC-VM-ST2048-1.0
WEBICC STANDARD VM V1.0 CS&RT 4096 tags	WEBICC-VM-ST4096-1.0
<b>WEBICC Cloud Professional version</b>	<b>Catalog no. (SKF)</b>
WEBICC PROFESSIONAL VM V1.0 CS&RT 64 tags	WEBICC-PRO64-1.0
WEBICC PROFESSIONAL VM V1.0 CS&RT 128 tags	WEBICC- PRO128-1.0
WEBICC PROFESSIONAL VM V1.0 CS&RT 256 tags	WEBICC- PRO256-1.0
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WEBICC PROFESSIONAL VM V1.0 CS&RT 1024 tags	WEBICC- PRO1024-1.0
WEBICC PROFESSIONAL VM V1.0 CS&RT 2048 tags	WEBICC- PRO2048-1.0
WEBICC PROFESSIONAL VM V1.0 CS&RT 4096 tags	WEBICC- PRO4096-1.0
<b>WEBICC Upgrade Features</b>	<b>Catalog no. (SKF)</b>
WEBICC V1.0 CS&RT 64 tags -> 128 tags	WEBICC-UPG64-128-1.0
WEBICC V1.0 CS&RT 128 tags -> 256 tags	WEBICC-UPG128-256-1.0
WEBICC V1.0 CS&RT 256 tags -> 512 tags	WEBICC-UPG256-512-1.0
WEBICC V1.0 CS&RT 512 tags -> 1024 tags	WEBICC-UPG512-1024-1.0
WEBICC V1.0 CS&RT 1024 tags -> 2048 tags	WEBICC-UPG1024-2048-1.0
WEBICC V1.0 CS&RT 2048 tags -> 4096 tags	WEBICC-UPG2048-4096-1.0

## Minimum Requirements

Project	
Operating System	Windows Server 2012,2016,2019,2022, Windows 10 Pro, Linux Debian/Ubuntu/Fedora.
Hardware	CPU Celeron J1900, SSD 128GB, 8GB RAM
Display Resolution	Any
Network Environment	WEBICC SCADA must remain connected to the Internet when registering the software key

Dashboard Viewer	
Hardware	Any
Browser	Any
Display Resolution	Any
Platform Environment	Any