The essential
cross-platform HMI solution

a very cheap and powerful set of entirely configurable HMI development tools available for a wide range of applications.

Thanks to eScada features you can choose the OS and the hardware that fits your needs, because it is an independent SW with a series of interesting properties.

eScada doesn't require any installation procedure nor compilation, because it is designed to be used on removable supports, without any particular dependencies with the OS and third party libraries neither.

Client Server architecture

TCP/IP sockets and Ethernet support guarantee a high level of connectivity, between eScada server component and several other eScada client components.

From everywhere in your company, or from a remote site, using a VPN, you can operate with your equipment as you were in front of it.
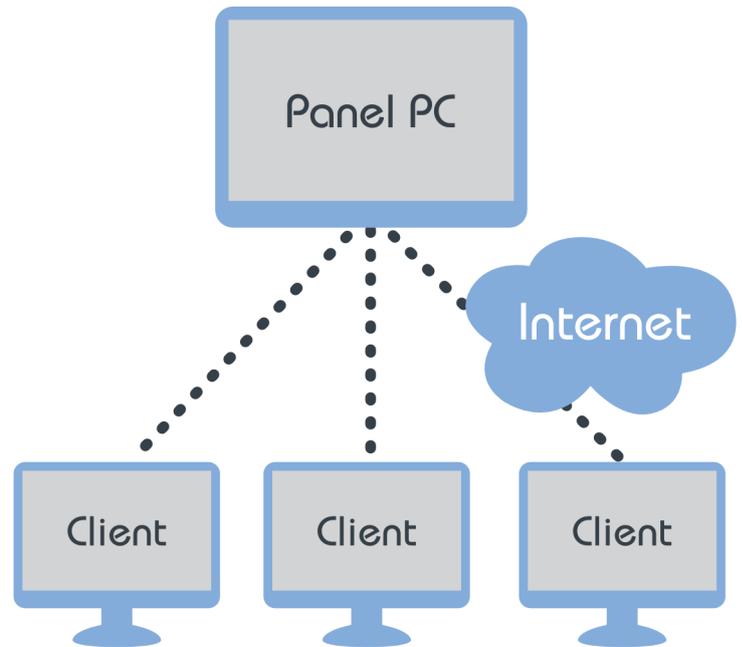
## Recipes and HMI solution, easy backup and restore
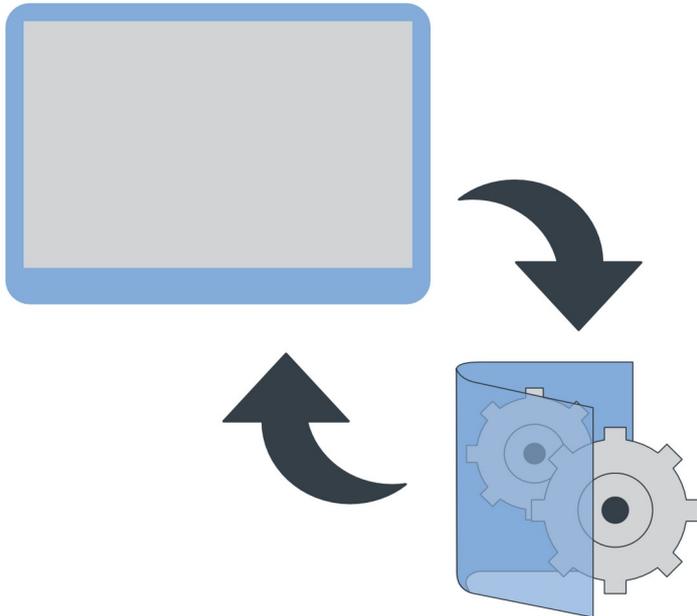
Using easy HMI commands, you will be able to backup the entire HMI solution and recipes data.

It's very easy to create your own archive of recipes and restore them whenever you need it.

Your precious data regarding production parameters will be always in a safe place.

Replace a broken HMI solution in minutes not hours or days
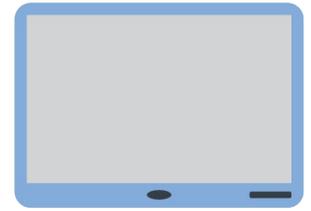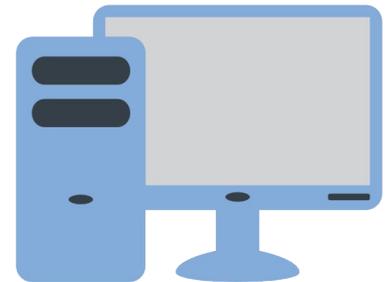
The entire HMI solution available doesn't require any installation and is stored on a removable support.

In the event of disaster recovery, it is necessary to remove such media from the broken hardware and insert it in a spare part, or using any other laptop, desktop PC, or server PC in your company and you can continue to operate with your machine.

In the event of emergency, the OS version you are running is not of importance as you can run the HMI solution using other types of hardware and OS.

OR

OR

Cross platform HMI solution
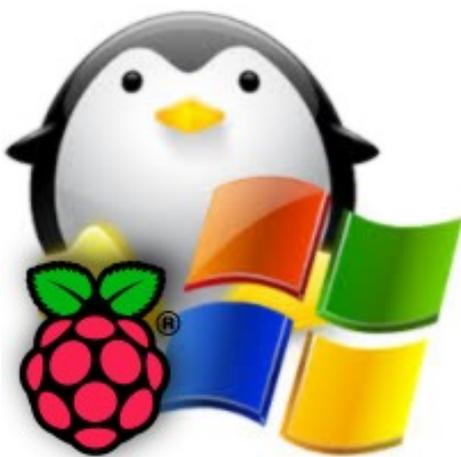
Below is a wide range of OSs supported:

Microsoft x64, ARM
- server from version 2008 R2 to version 2022
- desktop from Windows 7 to Windows 11
- embedded from Windows 7 to Windows 11 IoT
- windows on ARM

Linux x64, ARM
- all modern Linux distributions

Remarks: *it doesn't require any kind of installation procedure nor compilation for anyone of them. Just copy a folder and start.*

Hardware architecture

Even the hardware architecture is your choice, the application binaries we can provide are available for x64 or ARM processors.
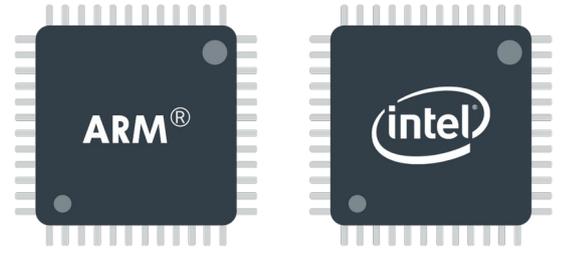
Raspberry PI 3 and 4 with their OSs like buster and bulsseye are fully supported, even Windows on ARM OS is supported.

Connectivity and Industry 4.0

Modbus Server TCP   Weihenstephan V8   OPC UA Server

Hypertext Transfer Protocol   SMTP Protocol

eScada permits to use several instances of common server protocols.

Currently Modbus Server TCP, Hypertext Transfer Protocol, OPC-UA Server and Weihenstephan Standards for Production Data Acquisition are fully supported.

The implemented Weihenstephan physical interface is aligned to the Version 8 for bottling and packaging plants and machines of the food industry.

Sending emails with SSL/TLS, STARTTLS security.
HTTP, HTTPS requests implemented.

Dependently on the OS used it's possible to read and write data using the major database engines currently present on market, such as Microsoft SQL server, mySQL, Oracle and many others, using OleDB technology.

Microsoft SQL Server is available for both OS, Linux and MS Windows.

Programming with Lua language

Lua is a powerful, efficient, lightweight, embeddable scripting language. It supports procedural programming, object-oriented programming, functional programming, data-driven programming, and data description.

Lua language has been embedded in eScada to offer an efficient way to operate with data, it is a powerful programming language which extends and completes derived tags objects.

An advanced use of Lua permits to integrate other external libraries written using C, C++ and C# languages.

www.lua.org

Encrypted project

Encrypting project file provides a vital layer of security, ensuring that personal or confidential information remains safe from prying eyes, hackers, and other potential threats.

It's like having a secure vault for digital data, where only authorized individuals can access the contents.

By encrypting the project file, you're taking proactive steps to protect your customer privacy, maintain data integrity, and comply with security regulations.

It's an essential practice in today's digital age to safeguard sensitive information and prevent unauthorized access or data breaches.

Multicultural environment

Nowadays in our companies there are a mix of cultures from all around the world.

Several languages are spoken and it is important to offer to the operators the opportunity to read the HMI interface using their own language.

Communication drivers

- Allen Bradley EIP (CIP)	Ethernet	
- Allen Bradley PCCC	Ethernet	
- Allen Bradley DF1	Serial	
- Applicom	(Windows x86 OSs only)	
- CAN Bus	USBTin	https://fischl.de/usbtin/
- General Electric SRTP	Ethernet	
- Kernel PLCs TCP	Ethernet	
- Kernel PLCs	Serial	
- Kunbus (Revolution Pi)	Direct I/O	https://revolution.kunbus.com
- LTI Servo One	Ethernet	
- Mitsubishi FX (PRG)	Serial	PLC programming port
- Mitsubishi Computer Link	Serial	
- Mitsubishi SLMP1E	Ethernet	
- Mitsubishi SLMP3E	Ethernet	
- Modbus TCP	Ethernet	
- Modbus RTU	Serial	
- OPCUA Client	Ethernet	TCP transport
- OMRON CMODE	Serial	
- OMRON FINS Serial	Serial	
- OMRON FINS TCP	Ethernet	
- OMRON EIP (CIP)	Ethernet	
- SAIA Burges S-BUS	Serial	
- Siemens S7 protocol	Ethernet	even for MPI to Ethernet adapters

Other kinds of communications drivers are works in progress and are not listed but in the event your device does not support any of the protocols listed above, do not hesitate to ask for its implementation.
We are very pleased to implement communication drivers on request.