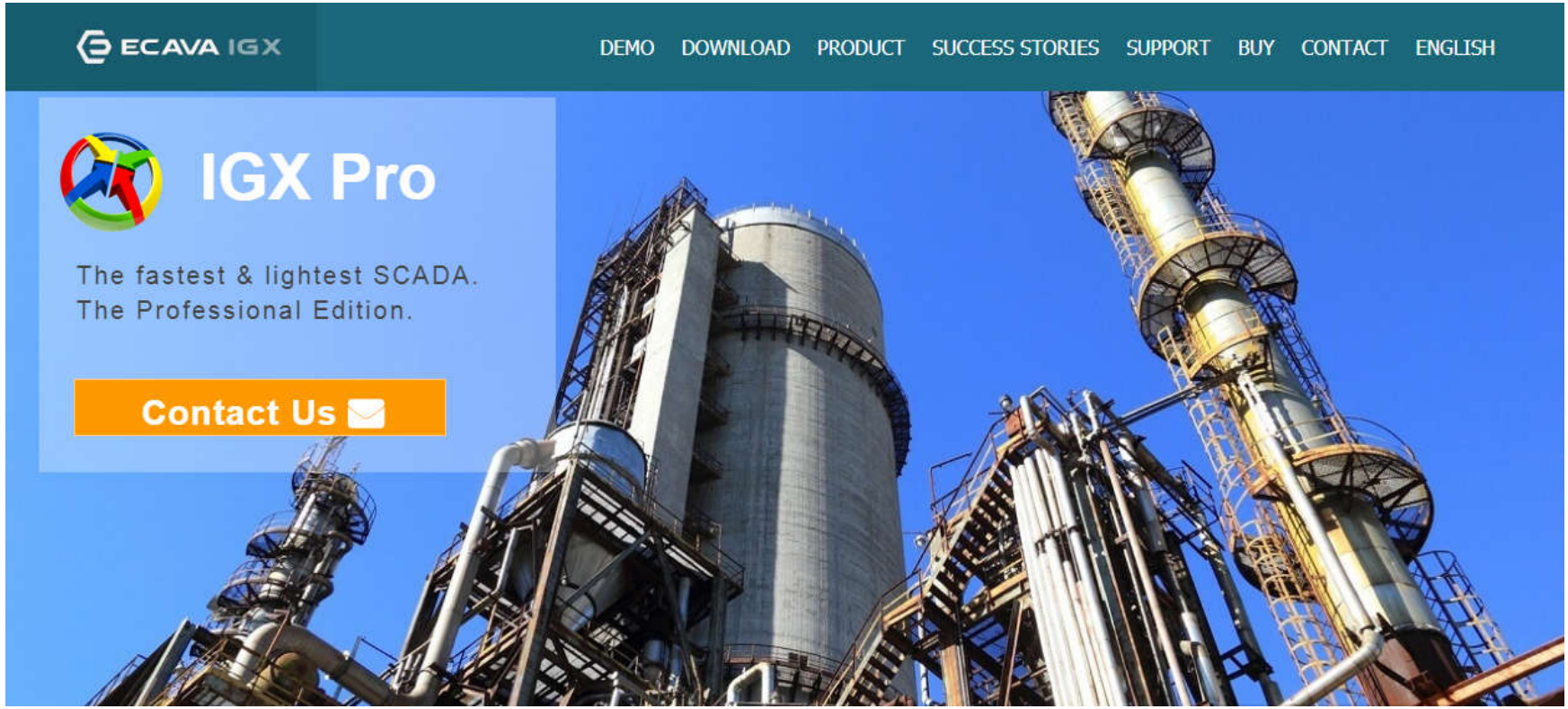
Ecava IGX Professional HMI SCADA



Modern HMI SCADA Challenges

jp progress engineering co.ltd
PLC & WEB SCADA System
DLMS to Modbus & IEC61850 converter
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Large and complex HMI SCADA systems have specific challenges to address.

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CYBER SECURITY

Large HMI SCADA systems are connected to a worldwide network of engineers, managers and corporate systems. A growing concern is SCADA cyber security. While security need to be applied at various levels, the first step is to encrypt the connection with HTTPS or SSL.

REDUNDANCY

Mission critical systems need redundancy at multiple levels. Network should be redundant. Hardware should be redundant. HMI SCADA systems must be redundant too. Redundancy guards against a single point of failure which will cause unnecessary downtime.

VIEWER ACCESS

BYOD is a common practice in many companies. But this introduces various OS and platforms with various software installed. The web standards aim to minimize these differences and HMI SCADA systems must be able to run on a standard browser with no plug-ins.

FAST DELIVERY

Large systems cover large factory areas. Some systems are kilometers away and cross country systems are common. HMI SCADA systems must be fast and light enough to deliver across these distances. A big challenge when SCADA screens tend to be complicated.

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Expert HMI SCADA users will need a HMI SCADA systems that is flexible and powerful to meet modern day challenges.

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SECURE HTTPS

You have the option to add encryption in the link between the web server and browser using Secure Sockets Layer (SSL). With this HTTPS connection, data being sent between web browser and server stays private without the ability of interception by a third party.

DUAL REDUNDANCY

Add the Redundancy Module to have 2 (two) Ecava IGX Professional servers running in redundancy. Database logging is also redundant. Our redundancy ensures that failure at PC/server hardware level, OS level or Application level does not cause any downtime.

WEB CONNECTIVITY

Ecava IGX was built from ground up for web. Users can use a standard browser on any device to connect to the Ecava IGX runtime server to view HMI screens. No additional plug-ins or installations required. It is the first SCADA with responsive design. Internet Gateway module for non-static-IP access and many other web features.

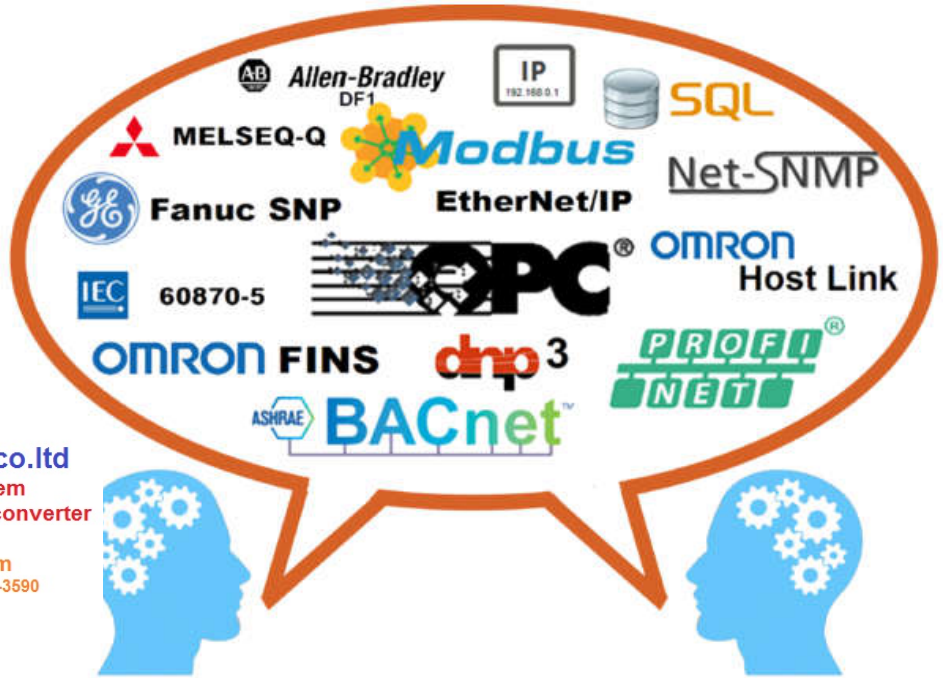
SVG AND WEB SOCKETS

Ecava IGX has a patented method to use SVG for animation and visualization. SVG is a text-based vector graphic standard for the web. It allows complicated and stunning graphics to be “lightly” sent across the internet. Combining SVG with WebSocket technology for faster communication speeds, Ecava IGX HMI SCADA is your fastest and lightest HMI SCADA software.

Ecava IGX Professional HMI SCADA

Built-in SCADA IO Drivers

Ecava IGX is pre-built with native device drivers that covered 80% of the mostly used Ethernet based communication protocols. They can be configured based on binary range of I/O count, which can map to actual I/O module termination.



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The I/O breakdown is listed below:

32
64
128
256
512
1024
2048
4096
8192
16384
32768

Notes:

- Virtual/Runtime tags are free
- Each protocol needs an assigned I/O count
- Protocols can be mixed in a single project
- I/O server and client are separated. (e.g. Modbus Master & Modbus Slave, OPC Server & OPC Client, are 4 separated modules)

Example scenario:
If you need 1000 Modbus and 200 OPC, then your project configuration required 1024 Modbus and 256 OPC client.