InduSoft Web Studio

Introduction to InduSoft Web Studio
Corporate profile

Established in US in 1997
Acquired by Invensys in 2013

Pioneer in industry:
First HMI package for Microsoft Windows CE
Web solution and XML integration in HMI
Patent for database connectivity
Multi-touch support and HTML5 integration

Certifications:

- Microsoft Partner
- OPC Foundation Member
- Certified Solutions
- AT&T
- Power by Windows Embedded
- QMS International ISO 9001:2008 Registered Firm
- CERTIFIED
- V2X for Compliance
- MOTOROLA PartnerSelect ISV partner
Awards
OEMs and Partners
The Vision

Any Device
Any Network
Any Data

An open-standard based architecture, designed from the ground up with security in mind.
Vertical Markets

InduSoft Web Studio and InduSoft EmbeddedView/CEView

Any vertical market ... Any application
Strategy
Case Studies

Installed Base of 250,000+ Licenses

- Paulista Shopping Mall (Building Automation)
- Mother Parkers (Packaging)
- MCL Control (Oil & Gas)
- Brookhaven National Laboratory (Government)
- McGroff-Bethune (Machine Builder / Extrusion)
- ATMI (Semiconductor)
- MGE UPS (Electrical)
- Micon Wireless PDA (Compressor Control)
- City of Rock Hill (Wastewater Treatment)
- Advanced Vacuum Technology (Machine Builder)
- IMPACT (Water Treatment)
- MPI (Machine Builder / Plastic)
- Xenia, Ohio (Wastewater Treatment / Mobile)
- Johnson Controls (Supply-chain / Mobile)
- Others...
The Product
InduSoft Web Studio

- InduSoft Web Studio is an easy-to-use HMI for industrial panels, embedded & mobile devices

- Runs on any current Microsoft Operating system (32 and 64 bits) including Windows CE/Mobile, Embedded XP, Vista, Windows 7 and Server Editions
Complete HMI package
Open Architecture and Published APIs

- Layer of abstraction for Communication
- Layer of abstraction for Databases/ERP
- Layer of abstraction for Hardware/OS Platforms
- Layer of abstraction for proprietary systems

InduSoft Web Studio
The power of choice – Multi-platform
Investment protection – 100% Compatibility

1997
Windows CE v1.0
Windows 95
CEView v1.0

2013
Windows CE 6.5
Windows 7
CEView v7.1
Synergy - Wonderware Historian Easy Integration

Easy-to-configure interface to Historian

See it in the Expo
Synergy- Wonderware has been embedding InduSoft

**InTouch WindowMaker + CEView = InTouch Compact Edition**

- **Wonderware InTouch Compact Edition** combines the flexibility of the **InduSoft CEView** with the simplicity of InTouch WindowMaker.
Embedded Solution: Finally, more choices than PLC Vendor’s HMIs

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>InduSoft HMI</th>
<th>Main Line PLC Vendor HMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>Open</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Hardware platform</td>
<td>Multiple</td>
<td>Single vendor</td>
</tr>
<tr>
<td>Flexibility to migrate to different hardware platforms</td>
<td>High</td>
<td>Limited or non-existent</td>
</tr>
<tr>
<td>Communication Interface</td>
<td>Hundreds of native communication drivers, in addition to OPC</td>
<td>Single vendor driver and, sometimes, OPC</td>
</tr>
<tr>
<td>Tag Integration between controllers and HMI</td>
<td>Supported for devices from multiple vendors</td>
<td>Supported for devices from single vendor, except OPC</td>
</tr>
<tr>
<td>Integration to Wonderware Historian</td>
<td>Native</td>
<td>Limited or non-existent</td>
</tr>
<tr>
<td>Feature set</td>
<td>Rich</td>
<td>Limited</td>
</tr>
<tr>
<td>Scripting language</td>
<td>Standard</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Support for Thin Clients</td>
<td>Native</td>
<td>Limited or non-existent</td>
</tr>
<tr>
<td>User interface</td>
<td>Modern and intuitive (gestures, multi-touch)</td>
<td>Limited</td>
</tr>
</tbody>
</table>
Connectivity

Mobile Access
Email, data, and page interface from cell phones, PDAs, etc.

Web Solution
Access to the system from anywhere using a single browser

Plant Floor Integration
OMRON, GE FANUC, AllenBradley, Siemens, Modbus, Profibus, DeviceNet, ControlNet, Interbus, Beckhoff and many others...

Over 240 Drivers

Web (HTML & XML)

TCP/IP

OPC Server Gateway

XML

ODBC/ADO

DDE

Driver & Database API

Open Architecture
System Integration
Product Customization

Client Stations
Redundancy
Data Exchange in Real-Time
Third-Party Systems
Secure Viewer Thin Client

Enterprise
Access, Oracle, SQL Server, Fox Pro, PI and many others...
Deployment
Typical cloud-based architecture

Cloud-based
Online + History information
(Microsoft SQL Server)

Thin Client Stations
Online Data, Dashboards,
History Charts, Reports, and so forth

Cloud computing:
Convenient, on-demand network access to a shared pool of
configurable computing resources
(e.g., networks, servers, storage,
applications, and services) that can
be rapidly provisioned and released
with minimal management effort or
service provider interaction

TCP/IP

Local HMI
(Operation)

RTUs
(PLCs, Remote I/Os, etc)
Main Benefits

Competitiveness
- Support for manufacturer-independent platforms provides unique flexibility.
- Remote diagnosis with built-in security features allows efficient data analysis.
- Open architecture empowers integration to different systems, devices, or databases.

Productivity
- Mobile solution provides online data anywhere.
- Database integration allied to web thin client charts provide meaningful information in reports, such as OEE, which drive actions to optimize the process.
- Alarm management system reduces the time to fix abnormal conditions.

Cost Management
- Most cost-efficient tool in the market.
- Intuitive single development interface reduces development, deployment, and maintenance cost.
- Thin client solution provides significant savings.
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