What is New and Advanced Features for InduSoft Web Studio

June 2020
InduSoft Web Studio 2020

Portability – Develop once, deploy anywhere

- New “Component” names
New Development Environment

Modern Look and Feel – More Intuitive – Even higher productivity

- Custom themes
- Modern iconography
- Intuitive adherence to standards
- Shortcuts and popup options for higher productivity
- Full compatibility with projects created in previous versions
- Co-existence with previous versions installed on the same computer
Industrial Graphics

Consistency across the portfolio

- Extensive Animations
- Local Namespace
- Client Business Logic/Scripts
- Quality Indication
- Status Indication
- Security Handling
- Anchor Points
- Connector Points
- Change Propagation
- Symbol Embedding
- Data Redirection
- Situational Awareness
- Element Styles
- Content Navigation
- .NET Framework Access
- Language Switching
- Graphic Wizards
- Alarm Handling
- Numeric Formatting
- More…
InduSoft Web Studio is an EON with bi-directional data communication (VTQ) by exception (pub/sub) optimizes the bandwidth usage.
Mobile Access Thin Clients (HTML5) Enhancements

Support for images on Buttons and additional improvements

Support for images on Buttons
- Native interface to embed pictures or icons into buttons, enabling intuitive navigation interfaces
- Improvement in HTML5 Mobile Thin Client solution, increasing parity with Windows-based Viewer

Additional Improvements
- Improved interface with combo-box, translation and Tags from Tag Integration feature
- Added support for Tag Properties (Tags Fields) from indirect Tags on Mobile Access Thin Client.
- Improved Performance, Scalability and Stability

Platforms: Agnostic
Host: Web Browser agnostic
Technology: HTML5
Increased scalability and performance for OPC UA communication

OPC UA Client

Reliability and Scalability

- Improved the start up time, stability and reliability of the OPC Communications, especially benefiting larger project with 100K+ tags
Security System Enhancements

Performance Enhancements when using Domain (LDAP) mode

- Performance enhancements, especially benefiting projects with large Active Directory Databases
- New option to disable reloading “LDAP settings” (i.e.: Active Directory settings) upon LogOn, improving substantially the performance when executing authenticating users
- Removed unnecessary additional verifications during operations
- Improved the memory management
Output Window enhancements

Ability to Save Messages automatically to file

General improvements

- Added the ability to log the Output Window contents directly to a file
- Now, saving communication information and Verification logs is faster and easier
- Improves productivity by helping to quickly identify issues
Cybersecurity

Enhancements on the Encrypted TCP/IP Channel

General improvements

- Encrypted TCP Communications channel supports cipher lists through TLS 1.3
- Implemented an enhanced Certificate validation to better handle customer-specific CA signatures

Security hardening

- Upgraded unsecure 3rd-party legacy libraries
Mobile Access Thin Clients (HTML5) Enhancements

Localization and additional improvements

Support for Localization on HTML5

- Dynamically switching languages
- Allows more flexibility for projects installed in different areas

Additional Improvements:

- Support for Sorting the columns on Alarm Control object
- “Push-like” style on Check-boxes and Radio Buttons
- Improved Performance, Scalability and Stability

Platforms: Agnostic
Host: Web Browser agnostic
Technology: HTML5
Tag Expansion for OPC Clients

OPC Client UA and OPC Client XML/DA

High Productivity

Easily associate a Class Tag with a Structure from the third-party OPC Servers, using only one line on the OPC Client worksheets.
Array Distribution for OPC Clients

OPC Client UA and OPC Client XML/DA

High Productivity

Easily associate an Array Tag with an Array Item from the third-party OPC Servers, using only one line on the OPC Client worksheets.
Enhanced Security System enabling Mixed Mode for Domain (LDAP) and Local modes

Flexibility and Extensibility

Users created using Local Mode can be used when the Security Mode is Domain (LDAP), even when connection with the Active Directory is available

- Enhancement on existing Mixed Mode feature with the option to Include local users.
- Flexibility on OEM projects
- Flexibility for Generic Templates
Enhanced CheckESign() built-in function

Custom authentication and verification

New Optional Parameters for optUserName and optPassword

• Script level check
• Verification control for sophisticated specifications, including FDA 21 CFR Part 11
• Enable custom authentication (e.g.: double authentication)
Additional Demo Projects

Embedded Demo and IoT Demo

New demo Projects

- Installed as part of the Setup process
- Same folder as the traditional PCDemo (C:\Users\Public\Public Documents\<Product Name and Version> Demo\)
- Allows demonstrations for EmbeddedView, CEView and IoTView
HTML5 Remote Database Spy

The HTML5-based Remote Database Spy allows the user to monitor/set tags, execute expressions to troubleshoot projects remotely:

- Support for Full Runtime, EmbeddedView, and IoTView
- Set/Monitor tags remotely
- Execute expressions remotely
- Access Database Spy from any HTML5-compatible browser from PCs, Tablets, or Smart Phones (plug-in free)
- Secure (TLS) connection with the server (firewall friendly) and built-in authentication

### Database Spy

<table>
<thead>
<tr>
<th>Tagname/Expression</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>second</td>
<td>49</td>
</tr>
<tr>
<td>minute</td>
<td>7</td>
</tr>
<tr>
<td>hour</td>
<td>17</td>
</tr>
<tr>
<td>time</td>
<td>17/07/49</td>
</tr>
</tbody>
</table>
Tag Integration drastically improves productivity and prevents typing errors allowing the user to browse remote tags instead of typing them when configuring the screens and other application tasks.

- Browse items from external OPC UA Servers while designing project interfaces.
- Automatically set up tag communications in the background.
- No need to open up worksheet and manually set tag communications.
- Includes tag integration for Schneider-Electric OPC Factory Server (OFS), which supports tag-based PLCs.
Enhanced support for Animations on Mobile Access Thin Clients (HTML5)

Continuous improvements in the HTML5 graphical interface (Mobile Access Thin Clients) provides a high level of portability and mobility to InduSoft Web Studio users:

- Support for suitable Animations (e.g.: Visibility/Position, Resize) on the following objects: Alarm/Event Control, Grid Control, Trend Control, Push-button, List-Box, Smart Message.
- Support for rotated linked pictures.
- Support for button styles (Standard, 3D Sharp, 3D Soft), in addition to the OS Like style.

Studio Mobile Access (SMA) Thin Clients

Platforms: Agnostic
Host: Web Browser agnostic
Technology: HTML5
Included MELSE driver for IoTView (Linux)

Increased interoperability with portability

- Migration of the MELSE driver to Linux (IoTView runtime edition), implementing the MELSEC protocol, supported by most Mitsubishi PLCs
- Expanded support for Mitsubishi PLCs, not only on Full Runtime, EmbeddedView, and CEView, but on IoTView (Linux) as well.
Mobile Access – substantial performance enhancement

Benefits

- The new “Hide screen” feature allows a faster switch among screens
Enhanced Cybersecurity – Encrypted TLS 1.2 TCP Port

Benefits

- All messages are encrypted using TLS 1.2
- Certificate management help the decision making process on which clients can connect to the Servers
- Easy to configure, yet powerful protection
Native Mobile Apps for iOS (Apple Store) and Android (Google Play)

AVEVA Mobile Access
Thin Client APP
Native Integration with Schneider-Electric OFS

Benefits

- Ability to communicate with Tag-based Schneider-Electric PLCs through the OFS (OPC Factory Server)
InduSoft Web Studio
V8.1+SP1

March, 2018
IoTView interface to AVEVA Insight

Benefits

- Capability of pushing data from devices such as RaspberryPi into the cloud-based AVEVA Insight Historian

- No gateways needed: directly from the Device to the Cloud
Mobile Access: Alarm and Events improvements

Benefits

Support for Proprietary Database format allows the user to not need an external relational database when saving Alarm and Event history and displaying it on Mobile Access

Enhanced filtering capabilities, allows user to have a better visibility of the issues and events that are being presented
New Library of Custom Widgets

TreeView

The TreeView custom widget allows the user to build and manipulate different nodes through a hierarchical graphical interface, with full support for both Viewer and Mobile Access
New Library of Custom Widgets

Full Calendar

The Calendar custom widget allows the user to build and manipulate events on a calendar with the precision of minutes.
New Library of Custom Widgets

Web Browser

- The WebBrowser is a simple Custom Widget that allows the user to host external content inside of their applications.

- It can be used to load
  - webpages,
  - pdf files,
  - MP4 videos
  - and any other content supported by the web browsers.
New Library of Custom Widgets

Pie Chart

Allows users to show their data in a Pie Chart or Donut charts.
New Library of Custom Widgets

Image List

Allows users to display images from different formats, including animated GIFs, animated PNGs, SVG, among many others.

Allows the user to set a list of images and control the frequency used to switch them, creating advanced animations and effects.

Allows creating color masks that will be applied dynamically on top of the original image.
Alarm/Event Control on SMA Thin Clients (HTML5)

Benefits

- Ability to visualize and interact (e.g.: acknowledge, filter, etc) with online and history alarms from devices based on different platforms and web browsers (HTML5), using a modern and intuitive user interface.
Smart Message on SMA Thin Clients (HTML5)

Benefits

- Ability to visualize and interact with the Smart Message native object from Studio Mobile Access (SMA) Thin Client stations (HTML5).
List Box on SMA Thin Clients (HTML5)

Benefits

- Ability to visualize and interact with the List Box native object from Studio Mobile Access (SMA) Thin Client stations (HTML5).
Push Button on SMA Thin Clients (HTML5)

Benefits

- Ability to visualize and interact with the Push Button native object from Studio Mobile Access (SMA) Thin Client stations (HTML5).
Multiple Sections for Trend on SMA Thin Clients (HTML5)

Benefits

- Ability to enable or disable dynamically multiple sections to stack the pens automatically in independent Y axis.
Native OPC UA Server for Windows and Linux

- Native OPC UA Server allows Full Runtime, EmbeddedView, and IoTView to exchange data directly with external systems, such as ERPs, third-party HMI/SCADA systems, or Cloud-based systems, which provide a native OPC UA Client.
Native communication across platforms through OPC UA

Full Runtime

EmbeddedView

IoTView
Simplified Licensing Model

- All licenses support unlimited number of concurrent communication drivers (limited by physical constraints)
- Native communication drivers for the electrical protocols (DNP/IEC) available for all licenses (Full Runtime, Embedded) – no longer an add-on.
- All Import Wizards (PanelBuilder™, PanelMate™, and FactoryTalk™) are enabled in the same add-on.
- License no longer restricts the type of Thin Clients, nor pre-defined packages of Thin Clients. The user can define the exact number of maximum Thin Clients that should be concurrently supported by the license.
Benefits

- Display information from any SQL Relational database using Studio Mobile Access (SMA) Thin Clients, hosted on web browsers that support HTML5
- Easily create dynamic web-based report using the native Grid control
- Publish screens from applications designed in previous version of the product and visualize the Grid control on SMA Thin Clients.
**Benefits**

- Embedded OPC UA Client allows IoTView to exchange data with external systems or devices through a third-party OPC UA Server.
- Improve interoperability natively provided by IoTView, enabling embedded devices running Linux to be used as an Edge device ("IoT Gateway").
Benefits

- In addition to Windows Embedded Standard 7, EmbeddedView licensing model was improved to support Windows Embedded Standard 8 (including Windows 8.1 Embedded Industry Pro), and Windows 10 IoT Enterprise as well.
- Enhances portability of EmbeddedView runtime across multiple platforms.
Benefits

- Layer to support encryption (SSL) and Authentication (User Name and Password) for native communication drivers that implement protocols where these interfaces are applicable, such as MQTT.
- Provides an easy configuration interface to improve the security of communication interfaces implemented by the product.
Benefits

- Support to set/change the Active Directory’s users passwords from the application, during the runtime, using the built-in function $SetPassword().
- Support the Password Aging policy configured on Active Directory, prompting the user to change the password during the runtime.
- Improved integration with Active Directory through the native LDAP interface.
Screen Gestures Swiping

Benefits

- Easily identify swiping gestures on the screen and trigger actions accordingly. For example, navigate through screens swiping on the touch screen interface.
Benefits

- Allow the user to select the zoom mode that best fits the project on different platforms and devices. Single Screen Scaling option provides backward compatibility to behavior available in previous version 7.1.
Text-based Find/Replace for IDE Productivity

Benefits

- High performance when developing, maintaining, and troubleshooting applications. Results displayed immediately, even in large projects.

- Ability to look for any references throughout the project and replace terms efficiently and reliably.
Support MATH Task on IoTView for Portability

Benefits

- Ability to execute custom logic to manipulate data in background, with execution control.

- Support for hundreds of built-in functions to transform data into meaningful information before presenting it.
Support DB/ERO Built-in functions on IoTView for Portability

Benefits

- Ability to execute SQL transactions with remote SQL Relational Databases, such as Microsoft SQL Azure, Microsoft SQL Server, Microsoft Access MDB, Microsoft Excel XLS/XLSX, Oracle, MySQL, etc.

- Modify external databases (Insert, Update, Delete, Create, Drop, etc) and get information from external databases (Select).
Support Trend Control on Studio Mobile Access Thin Clients (HTML5)

Benefits

- Ability to visualize online and history data from tag values on multiple devices based on different platforms and web browsers (HTML5), using a modern and intuitive user interface.
Support for Custom Widgets for graphical extensibility and mobility

Benefits

- Ability to integrate third-party web-based controls into the HMI/SCADA project screens.
- Engineers with HTML/JScript can easily create Custom Widgets and define Properties/Events through the IDE. Users can use the Custom Widgets on the local Viewer and Thin Clients.
Data Input with native virtual keypad/keyboards on Studio Mobile Access Thin Clients (HTML5)

- Support the mobile device’s language
- Consistent with the native virtual keyboard provided by the mobile device’s operating system
- Support for both numeric and alphanumeric input
Benefits

- Minimize cost of migration from FactoryTalk™ to InduSoft Web Studio by automatically converting FactoryTalk™ ME/SE applications to InduSoft Web Studio (graphical interface, communication interface, tags, etc).

Note: Manual adjustments can be done after executing the automatic conversion.
New and Updated Communication Drivers and Tag Integration

Benefits

- Enable integration of multiple devices and systems from the plant-floor to the ERP/Cloud in a seamless manner.

- Increase productivity and quality through native tag integration for tag-based devices.

MQTT → IoT / Industry 4.0
KAWR → Robotics
SNMP → IT
SITIA → PLC + Tag Integration
20+ Updated drivers
InduSoft Web Studio
V8.0

October, 2015
Multiple Screens Support on SMA Thin Clients

Support for Screen Groups (e.g.: Header, Footer, Menu, etc.)

Support for Popup and Dialog Screen Styles

Studio Mobile Access (SMA) Thin Clients

Platforms: Agnostic
Host: Web Browser agnostic
Technology: HTML5
Support for Web Servers using CGI interfaces

The Power of choice!
Use the Web Server (HTTP Server) you want.
IoTView™ Runtime Edition – Platform Agnostic

Global
- Project Tags
- Classes
- System Tags
- Security System (local mode)

Graphics (SMA Thin Client)
- Screens
- Screen Groups
- Project/Library Symbols

Tasks
- Alarm Online
- Trend (remote database)

Drivers
- MOTCP
- ABTCP
- SOFTP

IoTView™
Native OPC UA Redundancy

OPC Server Hot/Stand-by swap

Cascading Redundancy

Dynamic control per connection

Dynamic monitoring of the status

Easy configuration >> High reliability
Enhanced Symbols

1000+ Linked Symbols free-of-charge

Optimized for higher performance
Optimized Collaboration Server

Feature deprecated in InduSoft Web Studio 2020

Capability to compare any configuration file, merge changes from multiple application engineers and support for Revision Control. Also interact with the Team Foundation Server, allowing Application Lifecycle Management (ALM).

- Integrated Interface for Microsoft Visual Studio Team Foundation Server
- Native revision control
- Multi-user collaboration
- History of changes – traceability
- Security System – access control
- Backup/restore built-in control
- Multi-version comparison and merging options

Offline Mode Supported
Higher Performance and Reliability!
Support for Windows 10

100% Compatibility with applications designed in previous versions

Evolve protecting your investment!

2013
InduSoft Web Studio
Windows XP
Windows Embedded Standard 7
Windows Embedded Compact 6 / 5

2015
InduSoft Web Studio v8.0
Windows 10 / 8 / 7
Windows Server 2012 / 2008
Windows Embedded Standard 7
Windows Embedded Compact 7 / 6 / 5
Linux / Vxworks
InduSoft Web Studio
V7.1+SP3

May, 2014
Optimized Tag Integration
Native interface to save/retrieve data to/from the Wonderware Historian.

Built-in store and forward feature.

Layer of abstraction based on the History Format for each Trend Worksheet.

Support for Wonderware Historian locally or remotely (via TCP/IP), even from embedded devices.
Support for scripting on the Studio Mobile Access (SMA) Thin Client, based on platform independent HTML5 technology.

Enhanced the development environment, allowing the user to configure common properties from multiple objects selected on the screen editor.

Created built-in functions GetAlarmCount and GetAlarmInfo, allowing the user to access information about the online alarms during the runtime, via script.

Enhanced CEView (runtime for Windows Embedded Compact) to support pictures in additional formats, such as PNG, GIF, TIFF, and EXIF (in addition to BMP and JPG that were already supported). The operating system image must provide the required libraries to support such formats.

Add support for Chinese-Simplified MUI (in addition to Chinese-Traditional) in the development environment of InduSoft Web Studio.
License Server
Native Debugging tools for Scripts

Native support for debugging tools integrated in the development environment

Add break points to scripts

Simply move the mouse over variables to monitor their current value

Improved Database Spy

Monitor variables in the integrated environment

Watch the sequence of execution

Analyze the status of each runtime task
Multi-touch Interface

- Zoom In / Zoom out screens
- Pan screens
- Grow & Shrink objects (Size animation)
- Drag objects (Position animation)
- Rotate objects (Rotation animation)
- Dual or Multi-touch command (Command animation)
- Touch events (Command animation)
- Built-in Inertia effect
Dynamic Configuration

Tags Database Built-in Functions
Create, Modify, Delete tags and its properties during the runtime.

Screen XML API Add-On
Create screens in XML and convert them to binary format during the runtime.

Create Templates that can be configured during the runtime. Ideal for OEMs and Machine Builders!
Collaboration Server

Feature deprecated in InduSoft Web Studio 2020

Capability to compare any configuration file, merge changes from multiple application engineers and support for Revision Control. Also interact with the Team Foundation Server, allowing Application Lifecycle Management (ALM).

- Integrated Interface for Microsoft Visual Studio Team Foundation Server
- Native revision control
- Multi-user collaboration
- History of changes – traceability
- Security System – access control
- Backup/restore built-in control
- Multi-version comparison and merging options
SMA Thin Client (HTML5)

Tabular SMA Thin Client deprecated in InduSoft Web Studio 2020
OPC UA Client for Windows CE

- First HMI/SCADA software in the market to support OPC UA on the Microsoft Windows Embedded CE operating system (in addition to other Windows platforms).
- Increased security (built-in authentication), flexibility, and control.
Graphical Enhancements

- **Performance Enhancements**
  The screen switch greatly improved, especially on devices powered with slower processors (e.g.: ARM processors with low CPU power). Benchmark tests indicated that, in average, screen switch time is twice as fast on this version.

- **Graphical Editor Enhancements**
  Tab order editor and Textbox Active Object

![](image)
Localization for the Development Environment

Entwickeln Sie Ihr Projekt in Ihrer Sprache!

Desenvolva seu projeto em seu idioma!

Développez votre projet dans votre langue!

Entwickeln Sie Ihr Projekt in Ihrer Sprache!

あなたの言語でプロジェクトを開発！

Develop your project in your language!
Native SPC for the Trend Control

Statistical Process Control (SPC) information one click away!
Database Data Retrieval Performance Optimization

Optimized trend history module, designed to load millions of values from SQL Relational Databases with high performance!

Built-in data decimation in the Trend Control.
SSL Support for Emails

Native support for Security Socket Layer (SSL), made it easier and securer than ever to send emails from InduSoft Web Studio!
Native LDAP support

Support for ADAM Server in addition to standard LDAP Servers.
Integrate your project to the Active Directory (Users and Groups).
OPC XML and Multi-thread OPC DA 2.XX-3.00

- OPC DA 2.05
- OPC UA
- OPC .NET
- OPC XML/DA (2.x,3.0)
Native Communication Drivers (IEC104 and DNP)

Native drivers for standard protocols used in the Electrical Industry.

IEC-60870-5-104 (IE104 driver)  DNP3 (DNP driver)
Modern development Environment

Modern look-and-feel, increased productivity

- Ribbon interface

Open more than one document (tab) simultaneously

- Dock interfaces
- Larger Object Properties dialog
- Create custom pallets of colors
Graphic Enhancements

- New 3D button styles
- Link icons (.ico, .bmp, .jpg, .gif, .png) to buttons
- Apply dynamic rotation to imported graphics during runtime
Trend Control Enhancements

- Fill area below each pen (optional transparency 0-100%)
  - Color
  - Pictures or Patterns (.bmp)

- Add pictures or text (notation) on top of the trend control
Native Intellectual Property Protection

Do you or your customers have custom scripts?

What about graphics or other functionality you would like to protect?
Security Enhancements

- Integrate the project with Microsoft Active Directory – domain – security system using the LDAP protocol
- Share security system settings among several stations
- Import/Export security system settings
- Cache security system authentication information
- Associate “users” with multiple “groups”
- New security system configuration wizard
Runtime Localization

- Reduce errors, eliminate misunderstandings.
- No longer a manual “fill out the table” process
- Now a one-click online translation
- New easy-to-use interface
User-friendly configuration interface

Instead of scripting, easy-to-use configuration forms for:

- SMTP
- FTP
New and Updated Native Communication Drivers

No extra charge, built-in, installed

- CAN/CANopen (master or slave)
- Eaton ELC (PLCs)
- Opto 22
- Siemens (SIEME, SIETH, SIPPI)
- BACnet
Run as a Service

InduSoft Web Studio can run as a Windows service. This virtually eliminates accidental shutdown of critical applications by operators.

Because increased uptime is mandatory in today's facilities, running as a service also allows InduSoft Web Studio to start even when no users are logged on to the computer. This is perfect for remote installations or recovery from power failures.

Running InduSoft Web Studio runtime as a service increases the security of the system, blocking unauthorized users from slipping in and making any changes before launching the graphic interface.
Support for .NET Controls under Windows XP includes:

- Support for Properties, Methods and Events.
- Embedded user-friendly interface allowing the user to link tags to Properties and Methods, and to link expressions to Events. Does not require scripting to integrate the object in the project.
Using Linked Symbols, the user can create, modify and customize his/her own library of symbols and re-use them in many different projects. After editing the MASTER SYMBOL once, the changes are replicated to all instances of this symbol in the application, improving productivity during application development.

After inserting the symbol, the user can determine whether to keep the link with the MASTER Symbol or not.
VBScript Built-in Engine

Microsoft Visual Script Language (VBScript) is a simple, standard and flexible scripting language that allows you to implement logics and algorithms within the InduSoft Web Studio application.

- Built-in VBScript editor with IntelliSense.
- Support for syntax, operators, functions and standards from VBScript, integrated to the Studio tags and functions database.
- Ability to create your own variables and procedures (functions and/or sub-routines).
- Easy interface to access to properties, methods and/or events from COM objects, including ActiveX controls.
- Ability to execute the logics in any platform that supports VBScript, including MS Windows NT/2K/XP (InduSoft Web Studio Server station), MS Windows CE (CEView) and MS Internet Explorer - Web Thin Client.
Native Configuration Integration with Excel

Microsoft Excel compatible (copy/paste data and follow the same standards)

Tab-based interface increases productivity
ActiveX Controls Container

ActiveX Interface Enhancements:

- Support for Events in addition to Properties and Methods.
- Embedded user-friendly interface allowing the user to link tags to Properties and Methods, and to link expressions to Events. Does not require scripting to integrate the object in the project.
Tools for FDA 32 CFR Part 11

Security System
- Password Size
- Password Aging
- E-signature
- Auto Lock-up user

Event Logger
- System Events
- Process Events
- User Events
- Read-Only signed reports
Native Interface to any SQL Relational Database

- Support for third-party SQL Relational Databases such as SQL Server, MS Access, Oracle, Sybase and others, via standard ADO.NET providers.
- Embedded ADO.NET interface for all history tasks (Alarms, Events and Trends) as well as for the native Grid object.
- Database connectivity from any platform supported by InduSoft Web Studio or CEView (including Windows CE and PocketPC), through the unique Studio Database Gateway, which provides connection to the database through a standard TCP/IP link.
- User-friendly interface which does not require scripting or SQL knowlEdge to configure the database interface.
- Support for Secondary Database in the modes “Redundancy” or “Store and Forward,” increasing the reliability of the system and avoiding loss of data.
Native Serial Communication Encapsulation

Communication Drivers Enhancements:

- Option to dial to a remote site automatically and connect a remote device (e.g. PLC) through modems connected with the standard phone line.

- Option to encapsulate the protocol from any serial communication driver available in InduSoft Web Studio (or CEView) under TCP/IP or UDP/IP, to exchange data with remote devices (e.g. PLCs) through an “Ethernet to Serial converter.”
Remote Management

- Connect to remote runtime stations from the Development Station (InduSoft Web Studio) through any valid TCP/IP link, such as Ethernet, Wireless Ethernet (IEC 802.11), Internet, Dial-Up connection.

- Download the local application to the target station; Import the application from the target station; Install or upgrade the System Files (e.g.: CEView runtime software); License remotely; and Start or Stop the application remotely.

- Implement changes on the screens from the development station and download them as soon as the changes are saved (On-line Remote Configuration).

Protect the target stations configuring the Remote Agent built-in security system.
Remote Troubleshooting

Remote Database Spy

- Debug the application running in the remote target stations from the development station.
- Monitor tags, Force tags or execute Expressions remotely.
- Monitor events and log the protocol communication remotely.

Remote LogWin

SCRIPT: Compiling Error -> Line 1 : Syntax error : missing ';' (7), [05/11/2006, 11:03:49.544ms]
SCRIPT: Compiling Error -> Line 1 : Invalid Tag Name (-11), [05/11/2006, 14:43:39.412ms]
SCRIPT: Compiling Error -> Line 1 : Expected statement (2146827264), [05/11/2006, 14:43:09.966ms]
SCRIPT: Compiling Error -> Line 1 : Expected statement (2146827264), [05/11/2006, 14:43:15.815ms]
SCRIPT: Compiling Error -> Line 1 : Expected statement (2146827264), [05/11/2006, 14:43:05.498ms]
SCRIPT: Compiling Error -> Line 1 : Expected statement (2146827264), [05/11/2006, 14:43:04.536ms]
SCRIPT: Compiling Error -> Line 1 : Mneumonic is expected (-5), [05/11/2006, 14:44:59.320ms]
SCRIPT: Compiling Error -> Line 1 : Invalid Tag Name (-11), [05/11/2006, 14:44:51.262ms]
PanelBuilder32® Import Wizard

Closed Platform (Black Box)

Panel Builder Report File

InduSoft Web Studio

Open Architecture

- Flexibility
- Expansibility
- Connectivity

TCP/IP
OPC Server Gateway
OPC Client
Over 150 Drivers
Web (HTML & XML)
ADO
PanelMate® Import Wizard

Open Architecture

- Flexibility
- Expansibility
- Connectivity

TCP/IP
OPC Server Gateway
OPC Client
Over 150 Drivers
Web (HTML & XML)
ADO

Closed Platform (Black Box)

Panel Mate Application Files

InduSoft Web Studio
ABOUT AVEVA

AVEVA is a global leader in engineering and industrial software driving digital transformation across the entire asset and operational life cycle of capital-intensive industries.

The company’s engineering, planning and operations, asset performance, and monitoring and control solutions deliver proven results to over 16,000 customers across the globe. Its customers are supported by the largest industrial software ecosystem, including 4,200 partners and 5,700 certified developers. AVEVA is headquartered in Cambridge, UK, with over 4,400 employees at 80 locations in over 40 countries.

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