

## PRODUCT DATASHEET

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# AVEVA™ InduSoft Web Studio

SCADA and HMI that scales with your business

New in InduSoft Web Studio® 2020:

- **Integrated Industrial Graphics Editor:** Edit and/or import Industrial Graphics from AVEVA products and integrate them with InduSoft Web Studio projects.
- **Updated Development Environment:** A modern interface and improved user interface increases productivity and adds the ability to customize themes (color and style) in the development environment.
- **Mobile Access Client Improvements:** New interfaces are supported for Mobile Access Thin Clients (HTML5) including a Trend Start Date/Time and Duration, E-Sign, and others.
- **MQTT SparkplugB Publisher:** Enhancements in the MQTT driver enable InduSoft Web Studio to publish data according to the MQTT SparkplugB standards.

# InduSoft Web Studio® features

**Alarms:** Send online alarms or reports using multi-media formats like PDF. Alarms are real-time and historical; log data in binary format or to any database. Use remote notification to send alarms right to your inbox, printer, or smartphone. Custom Alarm fields allow you to customize up to 10 additional fields to the alarm history.

**Animation:** Take command over graphics in a user friendly and intuitive interface. Paste images, and even rotate dynamically using custom rotation points. Fill bar graphs with color or adjust the scale of objects with easy-to-use configuration. Other animations include 'command' (for touch, keyboard and mouse interaction), hyperlink, text data link, color, resize, transparency, and position.

**Business intelligence:** Transform raw data into meaningful information. Design custom dashboards in minutes with the InduSoft Web Studio.

**Database:** Connect to any SQL database (Microsoft SQL, MySQL, Sybase, Oracle), or Microsoft Access or Excel, and ERP/MES systems (including SAP), even from Windows Embedded Compact Edition. The flexible built-in interface doesn't require knowledge of SQL. A patented solution allows for communication with SQL and relational databases running on any supported platform.

**Drivers:** Use over 250 native communication drivers for PLCs, temperature controllers, motion controllers, bar code/2D/RFID readers, and many others such as MQTT (with Sparkplug B) and robots. Use native drivers, connect to an OPC server, or use AVEVA driver toolkits even to build your own drivers. Save time with comprehensive tag integration.

**Email:** Send email (with attachments) or text messages that can be accessed from mobile devices. Get real-time information on alarms, process values, and other events. Full runtime supports SSL encryption.

**Events:** Ensure traceability for operator-initiated actions or internal system activities. Log events such as security



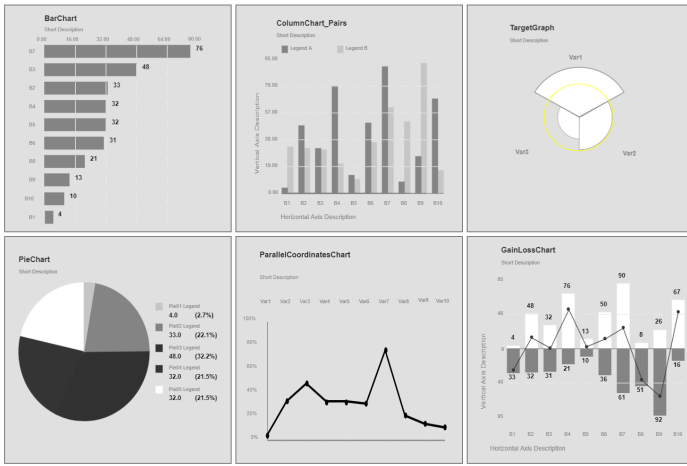
system changes (user logon or off), screen open/close, recipe/report operations, system warnings, and any tag value changes, including custom messages.

**FDA traceability:** Take advantage of built-in functionality to create 21 CFR part 11 compliant projects with traceability and e-signatures. These features are often used for pharmaceutical and food applications but can be used for any application where traceability is a requirement.

**FTP:** Automatically upload or download files during runtime to/from remote storage locations using the FTP protocol and flexible scripting functions. Configure FTP via scripting or the included interface.

**Graphics and design tools:** Create screens to meet any application requirement using the tools in our graphic editors. Combine, animate objects to create any functionality required. Use the hundreds of symbols included Industrial Graphics libraries, and easily make projects across a product line share a consistent "look and feel".

**Historian:** The trend history is optimized, featuring data decimation designed to load millions of values from SQL Relational Databases. Easy to use tools provide quick access to Statistical Process Control (SPC) values without any need for programming. InduSoft Web Studio offers add-on integration with the AVEVA™ Historian and support for AVEVA™ Insight.



**IoT view:** IoT View is a platform agnostic core runtime for Linux, and other embedded platforms. Make intelligent embedded systems and add your machines to the Internet of Things, Industrial Internet of Things (IIoT) and Industrie 4.0.

**Import wizards:** Convert whole applications from FactoryTalk™ ME/SE, PanelMate™, or PanelBuilder™32. Save time in conversion from a previously designed application to an InduSoft Web Studio application. \*

**Intellectual property protection:** Protect your intellectual property with just a few mouse clicks. Screens, documents, scripts and worksheets can be individually password protected. This prevents unauthorized viewing or editing of your project or application.

**JavaScript custom widgets:** Custom Widgets integrate 3rd party, reusable JavaScript, HTML5, and CSS interfaces properties and events to expand and enhance the graphical interface.

**Mobile access:** A multiple document interface for this thin client allows you to access your graphical interface from any device with a browser that supports HTML5, such as iPads, iPhones, Android devices, Windows devices, and others. InduSoft Web Studio includes support for Industrial Graphics and all native objects and allows you to integrate 3rd party web-based controls.

**Multi-Language:** Develop your application in one of many development languages, including English, Portuguese, German, French, Russian, Chinese Traditional and Simplified, Japanese and Spanish, or use translation tools to switch the runtime to any

language. InduSoft Web Studio offers automatic font replacement based on the language selected.

**Multi-touch interface:** Develop applications for touch screen devices. InduSoft Web Studio's multi-touch interface allows development for any touch-screen enabled device. Use familiar, modern interface gestures, like pinch zooming and panning. Scroll through alarms using swiping gestures; inertia in the multi-touch interface offers a comfortable user experience. Rotate graphics, dock screens, and take advantage of features like dual-touch command. Swipe gestures to change screens or other commands.

**.NET and ActiveX:** Use 3rd party controls to enhance your project. InduSoft Web Studio is a container for ActiveX and .NET controls, allowing you to add functionality such as browsers, media players, charting, live streaming from cameras, and other ActiveX or .NET controls.

**OEM:** InduSoft Web Studio can be customized for OEMs who want to offer pre-installed HMI or SCADA software on their hardware, or for OEMs who want to add value to their machines by offering remote monitoring, maintenance, or customizable applications.

**OPC:** InduSoft Web Studio provides native OPC interfaces, such as OPC UA (Client/Server), OPC DA (Client/Server), OPC XML (Client), and OPC HDA (Server). OPC UA and OPC DA also offers native redundancy configuration and tag integration for OPC DA and OPC UA Servers.

**PDF export:** Send Alarms, Reports, or any file to a production supervisor, quality manager, or maintenance staff using the included PDF writer.

**Recipes:** Save time and maintain consistency by automating part parameters or production quantities with flexible recipe management tools. Options including loading directly to PLC or edit before committing to PLC.

**Redundancy:** For critical applications where data is vital, InduSoft Web Studio supports web server, database and overall system redundancy to protect your information.

**Reports:** Create clear, concise reports in plain text, RTF, XML, PDF, HTML, and CSV or integrate with Microsoft

Office programs such as Excel. Get the data you need, in the format you need it, to make informed decisions, fast. AVEVA has also partnered with Ocean Data Systems to offer further reporting capabilities through Dream Report \*.

**Scalable:** Use the same development environment to design and deploy projects to a wide range of platforms, such as Linux, Windows Embedded Standard, Windows Embedded Compact, Windows 8., Windows 10, Server 2012, Server 2016 and Server 2019 editions. See Tech Ref for details.

**Scheduler:** Schedule application behavior triggered by tag changes, date/time, frequency, or any trigger. Use this for simulation, to trigger reports or other functionality at a particular time of day, or even to trigger driver worksheets to read/write at a scan rate you choose.

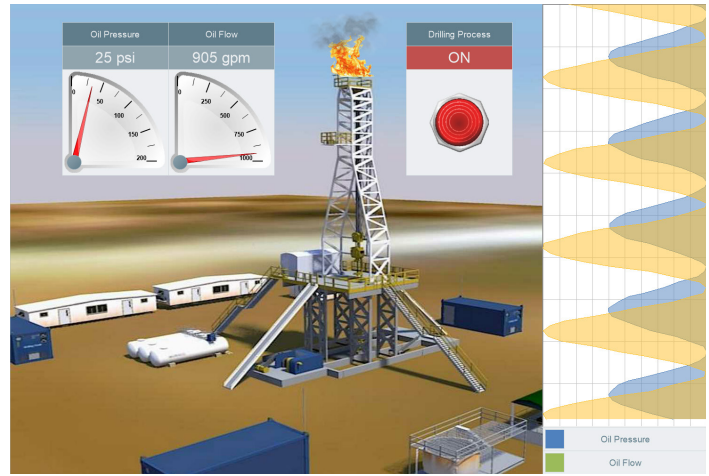
**Scripting:** Three powerful scripting languages are supported; built-in AVEVA functions, Industrial Graphics Quick Script and standard VBScript. Take advantage of widely available resources for VBScript. The scripting languages can be used simultaneously to give you the functionality you need, even from thin clients. Script debugging tools for the native VBScript editor include breakpoints, and a variable watch list to improve scripting productivity.

**Security:** InduSoft Web Studio includes support for group and user accounts, e-signatures, and traceability. Integrate your project to the Active Directory (Users and Groups).

**Standards:** Use common standards to develop applications that are compatible with TCP/ IP, .NET, ActiveX, OPC (client and server), ADO/ODBC, COM/DCOM, OLE, DDE, XML, SOAP, and HTML5.

**Symbols:** The included libraries feature push buttons, pilot lights, tanks, sliders, meters, motors, pipes, valves and other common objects. Use the 1,000+ included symbols in your project, modify existing symbols to suit your needs, or create your own from scratch. InduSoft Web Studio supports 3rd party symbol libraries and graphic tools.

**Templates:** InduSoft Web Studio has several plug and play templates available including: Andon, OEE, and PackML.



**Tag database:** InduSoft Web Studio features an object-oriented database with boolean, integer, real, strings, arrays, classes (structures), indirect tags and included system tags. Built-in functions allow you to create, delete, or modify the tags database settings during the runtime. This feature increases the flexibility to design generic templates that can be easily customized to each project, even during the runtime. InduSoft Web Studio also offers tag integration from a wide range of PLCs, including Schneider Electric.

**Trends:** Real-time and Historical trends, and SPC functionality are supported. Log data in binary format, or to any local or remote SQL database and optionally to AVEVA Historian\*. Color or fill trends with graphic elements to enhance clarity of data. Date/Time based or numeric (X/Y plot) trends give you the flexibility to display information that best suits your application. InduSoft Web Studio supports vertical and horizontal trending.

**Troubleshooting:** Quickly debug and verify a project using local and remote tools for troubleshooting, including status fields, HTML5 based Watch Window for IoT View, Watch Window and LogWin. Capture screen open and close times, see communications in real-time, messages related to OPC, recipes/reports, security, database errors and even custom messages. Finish your project quickly using these powerful tools.

**XML screen toolkit:** Modify or create screens during the runtime or import screens that you've created. This feature is available as an add-on.

\*Additional licenses required.





InduSoft Web Studio is a comprehensive platform that includes all the tools you'll need to make SCADA and HMI applications that have real power behind them. The development environment allows you to develop once and deploy anywhere. InduSoft Web Studio supports all Windows runtime platforms (including 32 and 64 bit), ranging from Windows Embedded Compact, Windows Embedded Standard, Windows 8.1/10 and Windows Server Editions (Server 2012/2016/2019), along with built-in support for local or remote (web) based visualization. InduSoft Web Studio also offers a runtime edition (IoT View) available for Linux and other embedded platforms.

Build powerful graphical displays and take advantage of the 250+ available communication drivers for all major PLC products. InduSoft Web Studio includes OPC UA and OPC Classic (HDA and DA), trends, alarms, reports, recipes and built-in SQL database support as standard features. Not all features supported on all platforms.

CERTIFIED ISO COMPLIANCE  
 MOTOROLA PartnerSelect ISV partner  
 Windows Embedded Partner  
 ISO 9001:2015 REGISTERED COMPANY  
 Certified Solutions at&t  
 Gold Microsoft Partner  
 Windows Server 2016 Windows 10

2010 ENGINEERS' CHOICE AWARDS  
 2011 ENGINEERS' CHOICE AWARDS HONORABLE MENTION  
 2012 ENGINEERS' CHOICE AWARDS  
 2013 ENGINEERS' CHOICE AWARDS WINNER  
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 2018 ENGINEERS' CHOICE AWARDS WINNER  
 2019 ENGINEERS' CHOICE AWARDS WINNER  
 2020 ENGINEERS' CHOICE AWARDS WINNER

Software – HMI Software  
 InduSoft Web Studio v7.1  
 Software – Applications, monitoring  
 BI Dashboard Template  
 Software – Mobile apps for control, automation, instrumentation  
 Mobile Access  
 Software – HMI Software  
 InduSoft Web Studio v7.1 + SP2  
 Software – Mobile apps for control, automation, instrumentation  
 Studio Mobile Access



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