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**Schneider**  
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# InTouch HMI - Machine Edition<sup>®</sup> 8.1 + SP1

InTouch Machine Edition is a highly scalable, flexible HMI/SCADA software designed to provide everything from advanced HMI applications to small-footprint embedded devices. The rich feature set enables users to create intuitive, secure, and highly maintainable HMI / SCADA applications for any industry. InTouch Machine Edition is ideal for OEMs, Machine Builders, Value Added Resellers, Discrete HMI/SCADA, or Process HMI/SCADA.

[wonderware.com/hmi-scada/industrial-computers](http://wonderware.com/hmi-scada/industrial-computers)

# InTouch Machine Edition 8.1 + SP1



## NEW in InTouch HMI - Machine Edition® 8.1 + SP1

### Enhancements for Studio Mobile Access Thin Clients (supported by HTML5)

- Improved contextual information
- Support for Proprietary and Binary Alarm History
- Alarm Control object enhancement supports Alarm and Events Custom Fields

### Support for importing Custom Widgets from a library

#### New Custom Widgets (installed with software) enabled

- TreeView
- Calendar
- PieChart
- Web Browser
- Image List

### Push data directly to the cloud-based Wonderware Online InSight from IoTView runtime station(s) running on Linux

## InTouch HMI - Machine Edition® 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 InTouch HMI - Machine Edition Business Intelligence Dashboard Template.

**Collaboration:** Collaborative Solution and ALM (Application Lifecycle Management): Compare any configuration file or merge changes from multiple developers. Include support for versioning and source control, and interaction through Microsoft's Team Foundation Server, allowing Application Lifecycle Management on location or on the cloud.

**CEView:** Complete supervisory control, process monitoring and operator interface software for the Windows CE and Mobile operating system platform. CEView has a small footprint specifically designed for Windows CE operating systems, now known as Windows Embedded Compact.

**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 other devices. Use native drivers, connect to an OPC server, or use InTouch HMI - Machine Edition driver toolkits even to build your own drivers. Save time with comprehensive tag integration for PLCs from Schneider Electric and other manufacturers.

**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.

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**EmbeddedView:** EmbeddedView offers a small footprint, comprehensive SCADA and HMI software specifically designed for Microsoft Windows Embedded platforms.

**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 interface. Combine over 1,000 animated objects to create any functionality required. Store graphics in the library for future use, and easily make projects across a product line share a consistent “look and feel”.

**Historian:** InTouch HMI - Machine Edition has optimized the trend history, 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. InTouch HMI - Machine Edition offers add-on integration with the Wonderware Historian and support for Wonderware Online.

**IoTView:** IoTView is a platform agnostic core runtime for Linux, VxWorks, 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 InTouch HMI - Machine Edition 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.

**Multi -Language:** Develop your application in one of many development languages, including English, Portuguese, German, French, Russian, Chinese Traditional and Simplified, and Spanish, or use translation tools to switch the runtime to any language. InTouch HMI - Machine Edition offers automatic font replacement based on the language selected.

**Multi-touch Interface:** Develop applications for touch screen devices. InTouch HMI - Machine Edition’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.



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**.NET and ActiveX:** Use 3rd party controls to enhance your project. InTouch HMI - Machine Edition 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.

**OPC:** InTouch HMI - Machine Edition provides native OPC interfaces, such as OPC UA (Client/Server), OPC DA (Client/Server), OPC XML (Client), OPC .NET (Client), and OPC HDA (Server). OPC UA and OPC DA also offers native redundancy configuration.

**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, InTouch HMI - Machine Edition 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. InTouch HMI - Machine Edition has also partnered with Ocean Data Systems to offer further reporting capabilities through Dream Report for InTouch HMI - Machine Edition.

**Scalable:** Use the same development environment to design and deploy projects to a wide range of platforms, such as Linux, VxWorks, Windows Embedded 7/8, Windows 7/8/10, Windows 10 IoT Enterprise, and Windows Server 2012/2016 editions.

**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:** Two powerful scripting languages are supported; built-in InTouch HMI - Machine Edition functions and standard VBScript. Take advantage of widely available resources for VBScript. Both the native scripting language and VBScript can be used simultaneously to give you the functionality you need, even from thin clients. Script debugging tools for the native VBScript editor include break-points, and a variable watch list to improve scripting productivity.

**Security:** InTouch HMI - Machine Edition includes support for group and user accounts, e-signatures, and traceability. Integrate your project to the Active Directory (Users and Groups), and set user passwords and password aging using Active Directory.

**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.

**Studio 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. InTouch HMI - Machine Edition now includes support for all native objects, and allows you to integrate 3rd party web-based controls.

**Symbols:** The included library features 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. InTouch HMI - Machine Edition supports 3rd party symbol libraries and graphic tools.

**Templates and Add-Ons:** InTouch HMI - Machine Edition has several plug and play templates available including: Andon, OEE, PackML, and Business Intelligence dashboards.

**Tag Database:** InTouch HMI - Machine Edition 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. InTouch HMI - Machine Edition also offers tag integration from a wide range of PLCs, including Schneider Electric.



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**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 Wonderware 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. InTouch HMI - Machine Edition supports vertical and horizontal trending.

**Troubleshooting:** Quickly debug and verify a project using local and remote tools for troubleshooting, including status fields, DatabaseSpy 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.

InTouch HMI - Machine Edition® 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. InTouch HMI - Machine Edition supports all Windows runtime platforms (including 32 and 64 bit), ranging from Windows Embedded Compact, Windows Embedded Standard, Windows 7/8/10 and Windows Server Editions (Server 2012/2016), along with built-in support for local or remote (web) based visualization. InTouch HMI - Machine Edition also offers a runtime edition (IoTView) 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. InTouch HMI - Machine Edition includes OPC UA, OPC.NET 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.

\*Additional licenses required.

+Additional Microsoft Team Foundation Server licenses required.

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