

Life Is On

Wonderware
by Schneider Electric

Wonderware InTouch Machine Edition® 8.0

InTouch Machine Edition is a highly scalable, flexible HMI designed to provide everything from advanced HMI applications to small-footprint embedded devices. The rich feature set enables OEMs, machine builders and end users to create intuitive, secure, and highly maintainable HMI applications for any industry.

36%



BOTTLENECK LINE PERFORMANCE
STATUS: RUNNING
DURATION: 57.24
DEE% = 72

ACTIVE ALARM AT 5





NEW in InTouch Machine Edition® 8.0 + SP2

OPC UA Client for IoTView

The platform-agnostic runtime edition IoTView provides a built-in OPC UA Client interface in addition to native communication drivers that increase interoperability across multiple platforms, including embedded devices running Linux on IIoT or Industry 4.0 architectures.

Password Aging and User Password Support

Service Pack Two offers the ability to set user passwords directly from the runtime user interface (application), and includes support for password aging, even when the Security System is linked to the Active Directory through the built-in LDAP interface. This increases flexibility and functionality for the Pharmaceutical industry or any other projects that require compliance with the FDA 21 CFR Part 11.

Encryption and Authentication for Communication Drivers

Native support for encryption (SSL) and authentication for the MQTT communication driver are supported, improving security for communication with cloud-based (or premise-based) MQTT brokers.

Improved Import FactoryTalk ME/SE and Import Wizard for PanelMate™ (Add-Ons)

Minimize migration costs from FactoryTalk ME/SE and/or PanelMate to InduSoft Web Studio by automatically converting legacy projects with these improved tools.

Improved EmbeddedView Licensing

Improving portability across different platforms, InduSoft EmbeddedView runtime edition is now supported on Windows Embedded 8, Windows 10 IoT Enterprise operating systems, and Windows Embedded Standard 7.

Grid Control for Studio Mobile Access Thin Clients

Improving mobility, the native Grid control with Database data source is now supported on the HTML5-based Studio Mobile Access (SMA) Thin Clients.

Improved Redundancy with System Platform

The ITMEViewApp object from InTouch Machine Edition has been updated to support integration with Wonderware System Platform, allowing users to set target IP addresses dynamically and improve redundancy.



ACTIVE ALARM AT SITE 565

34%

**GRIT COLLECTOR
RUNNING
281 SCFH**



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 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 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 or text messages that can be accessed from mobile devices. Get real-time information on alarms, process values, and other events. InTouch Machine Edition supports SSL encryption.



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 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 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 Industry 4.0. IoTView now supports the Math task and DB/ERP built-in functions

A large industrial facility, possibly a refinery or chemical plant, is shown at night. The structure is complex, with multiple levels of steel frameworks, pipes, and tanks. The scene is illuminated by blue and white lights, creating a futuristic, high-tech atmosphere. Overlaid on the image are several data visualization elements: a large '27%' on the left, a '63%' on the right, and various bar charts and text boxes connected to the facility's components by white lines. A circular logo with the text 'IN TOUCH' is visible in the center of the facility.

27%

EAST LINE 103 FLOW
PV: 317.8 GPM
SP: 320
OP: 87%
AUTO

63%

DS STORAGE TANK: 8.42 FT
AIR BLOWER RUNNING
RECYCLE STORAGE TANK: 8.52 FT
TRANSFER PUMP ON

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 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.

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 Machine Edition offers automatic font replacement based on the language selected.

Multi-touch Interface: Develop applications for touch screen devices. InTouch 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.

.NET and ActiveX: Use 3rd party controls to enhance your project. InTouch 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 Machine Edition provides native OPC interfaces, such as OPC DA (Server/Client), OPC HDA (Server), UA (Client) and OPC .NET 3.0 (Client), and includes native redundancy for OPC UA and OPC XML/DA interfaces. InTouch Machine Edition also supports OPC XML. OPC DA and UA connectivity are also available in Windows CE operating systems.



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.

Redundancy: For critical applications where data is vital, InTouch 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 has also partnered with Ocean Data Systems to offer further reporting capabilities through Dream Report for InTouch 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 functions and standard VBScript. Take advantage of widely available resources for VBScript. Both the native InTouch 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 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 Machine Edition now includes support for Trend control objects and Custom Widgets, 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 Machine Edition supports 3rd party symbol libraries and graphic tools.

Templates and Add-Ons*: InTouch Machine Edition has several plug and play templates available including: Andon, OEE, PackML and BI-Dashboards.

Tag Database: InTouch 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 Machine Edition 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. 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 Machine Edition supports vertical and horizontal trending.

14%



SLUDGE TRANSFER
PV: 285 LBS
SP: 300
OP: 50%
MANUAL



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 runtime, or import screens that you've created*.

*Additional licenses required.

+Additional Microsoft Team Foundation Server licenses required.

InTouch 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 Machine Edition supports all Windows runtime platforms (including 32 and 64 bit), ranging from Windows Embedded Compact, to Windows Embedded Standard, to Windows 7/8/10 and Windows Server Editions (Server 2012/2016), along with built-in support for local or remote (web) based visualization. New in 8.0, InTouch Machine Edition offers a core runtime 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 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.