

## DATASHEET

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# AVEVA InTouch Edge HMI

## NEW in AVEVA InTouch Edge HMI

- Mobile Access Thin Clients
  - Supports the “format” property for Text Box
  - Supports images on the button object
- Security system (LDAP) performance improvements
- Save the contents of Output Window to a file
- OPC UA and DA enhancements and improvements
- FactoryTalkView ME/SE Import enhancements
- Quality and cybersecurity enhancements



## AVEVA InTouch Edge HMI 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 AVEVA InTouch Edge HMI 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 AVEVA driver toolkits even to build your own drivers. Save time with comprehensive tag integration for PLCs from MQTT and other robots.

## 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.

## 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

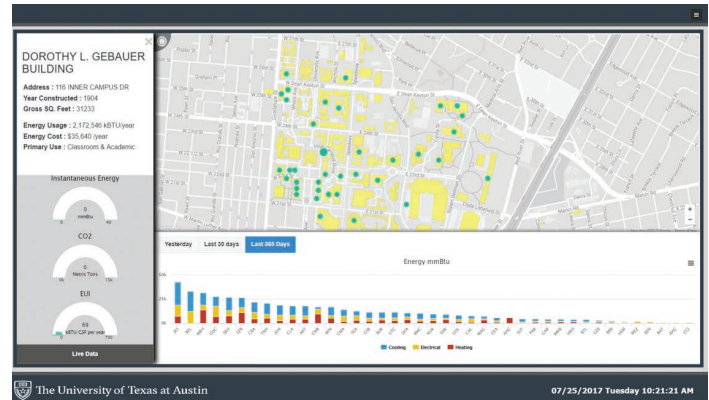
Create screens to meet any application requirement using the tools in our graphic interface. Combine over 1,000 animated objects to create any functionality required. Store graphics in the library for future use, and easily make projects across a product line share a consistent “look and feel”.

## Historian

AVEVA 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. AVEVA InTouch Edge HMI 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. IoTView now supports the Math task and DB/ERP built-in functions.



## Import Wizards

Convert whole applications from FactoryTalk ME/SE, PanelMate, or PanelBuilder32. Save time in conversion from a previously designed application to an AVEVA InTouch Edge HMI 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

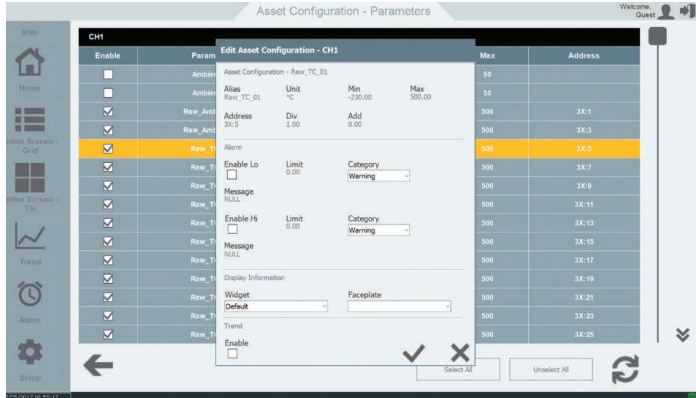
Develop your application in one of many development languages, including English, Portuguese, German, French, Russian, Chinese Traditional and Simplified, Japanese and Spanish, or use translation tools to switch the runtime to any language. AVEVA InTouch Edge HMI offers automatic font replacement based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

## Multi-touch Interface

Develop applications for touch screen devices. AVEVA InTouch Edge HMI'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. AVEVA InTouch Edge HMI 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

AVEVA InTouch Edge HMI 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, AVEVA InTouch Edge HMI supports web server, database and overall system redundancy to protect your information.

## Remote Support

Offer Support as a Service or quickly troubleshoot and modify client applications with the built-in remote support tool, which adds Team Viewer-like support capabilities to AVEVA InTouch Edge HMI.

## 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 for AVEVA InTouch Edge HMI\*.

## Scalable

Use the same development environment to design and deploy projects to a wide range of platforms, such as Linux, VxWorks, WindowsEmbedded, Windows 7, Windows 8, Windows 10, Server 2012, and Server 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 AVEVA functions and standard VBScript. Take advantage of widely available resources for VBScript. Both the native AVEVA 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

AVEVA InTouch Edge HMI 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.

## 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. AVEVA InTouch Edge HMI 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. AVEVA InTouch Edge HMI supports 3rd party symbol libraries and graphic tools.

## Templates and Add-Ons\*

AVEVA InTouch Edge HMI has several plug and play templates available including: Andon, OEE, PackML, and Business Intelligence dashboards.

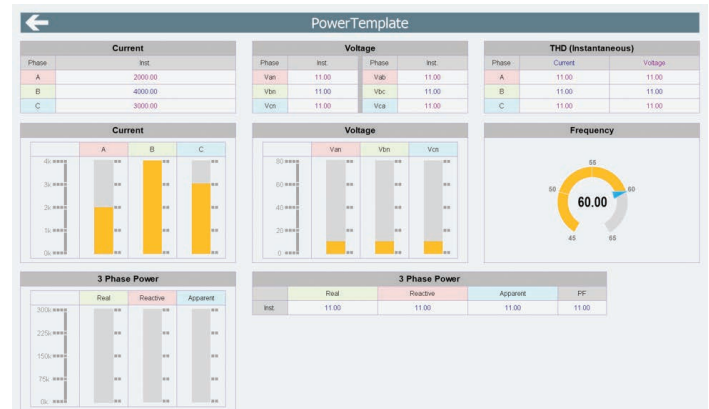
## Tag Database

AVEVA InTouch Edge HMI 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. AVEVA InTouch Edge HMI 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 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. AVEVA InTouch Edge HMI supports vertical and horizontal trending.

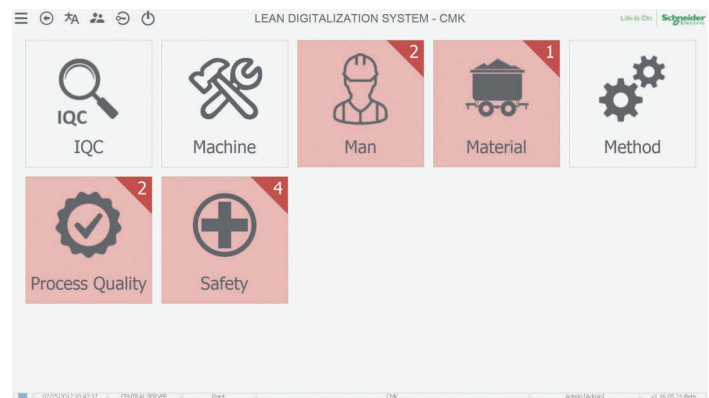


## Troubleshooting

Quickly debug and verify a project using local and remote tools for troubleshooting, including status fields, HTML5 based Database Spy for IoTView, 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.\*



\*Additional licenses required.

+Additional Microsoft Team Foundation Server licenses required.



## AVEVA InTouch Edge HMI

AVEVA InTouch Edge HMI 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. AVEVA InTouch Edge HMI 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. AVEVA InTouch Edge HMI 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. AVEVA InTouch Edge HMI 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.

For more information about AVEVA InTouch Edge HMI, visit <https://sw.aveva.com/monitor-and-control/hmi-supervisory-and-control/intouch-edge-hmi>.