Introduction to InTouch Edge HMI

Version 8.1+SP2
InTouch Edge HMI Overview
Any Data
Any Network
Any Device

An open-standard based architecture, designed from the ground up with security in mind.
Platform Independence

Portability
- Windows 10
- Windows Embedded Standard 7
- Windows Embedded Compact
- Linux

Mobility
- Windows
- Android
- Apple
- Linux

Interoperability
- Robotic Arm
- Database
- SMT
- Cloud
- MQTT

Productivity

Reliability

Security
Portfolio Integration

Best in class solution integrating local HMIs with central SCADA system, increasing productivity and quality

✓ Seamless IDE integration
✓ ArchestrA Galaxy Repository
✓ Automatic point mapping
✓ Event-driven value communication
✓ Synchronized Alarm Status
✓ Native support for Wonderware Historian
✓ Remote Management and Deployment
**Value Proposition**

InTouch Edge HMI is an easy-to-use, powerful, and affordable HMI/SCADA software and IoT/Industry 4.0 solution for PCs, industrial panels, embedded & mobile devices.

Design the applications in an integrated development environment and deploy/run it on multiple platforms, including any current Microsoft Operating system - Windows CE/Mobile, Embedded, Desktop and Server Editions, Linux, VxWorks, among others.
Investment Protection and ROI

100% Compatibility with applications designed in previous versions

Evolve protecting your investment!

2013
InTouch Edge HMI
Windows XP
Windows Embedded Standard 7
Windows Embedded Compact 5 / 6

2018
InTouch Edge HMI v8.1
Windows 10 / 8 / 7
Windows Server 2016 / 2012
Windows 10 IoT Enterprise
Windows Embedded Standard 7 / 8
Windows Embedded Compact 7 / 6 / 5
Linux / Vxworks
Vertical Markets

Oil and Gas  Building  Automotive  Instrumentation  Warehouse  Water & Waste  Machinery  Pharmaceutical  And Others...

InTouch Edge HMI

HMI  Real Time Performance Management (RTPM)  Supply Chain Integration  Mobile Wireless Solution  Database Integration  Web Solution  IOT, IIOT, Industry 4.0

Any vertical market ... Any application
Main features, characteristics, and competitive advantages
Comprehensive set of tools for SCADA, HMI, and IoT Edge Solutions
Solution in Layers

Customerization
(User, Project, Deployment Specific)

Template
(Industry Specific)
Data Center Template

Product
(General Market)
InTouch Edge HMI

OEM focused template architecture
"PackML, which stands for Packaging Machine Language, defines a common approach, or machine language, for automated machines. The primary goals are to encourage a common "look and feel" across a plant floor and to enable and encourage industry innovation."

- OMAC

"Overall equipment effectiveness (OEE) is a concept utilized in a lean manufacturing implementation. OEE is becoming a commonly utilized maintenance metric within lean organizations. The high-level formula for the lean manufacturing OEE is:

\[
\text{OEE} = \text{Availability} \times \text{Productivity} \times \text{Quality}.
\]

- Reliable Plant Web Site

"Andon (Japanese: アンドン or あんどん or 行灯) is a manufacturing term referring to a system to notify management, maintenance, and other workers of a quality or process problem. The center piece is a signboard incorporating signal lights to indicate which workstation has the problem."

- Wikipedia
Modular Architecture

Layer of abstraction for Communication
Layer of abstraction for Databases/ERP
Layer of abstraction for Hardware/OS Platforms
Layer of abstraction for proprietary systems
Portability

Single, integrated development environment

InTouch Edge HMI Development Station

Develop once, Deploy anywhere

SCADA: Full Runtime
- Windows 10
- Windows 8
- Windows 7
- Windows Server 2016
- Windows Server 2012
- Windows Server 2008 R2

Full Feature HMI: EmbeddedView
- Windows Embedded Standard 7
- Windows IoT
- Windows Embedded Standard

Compact HMI: CEView
- Windows Embedded Compact

IoT Edge Solution: IoTView
- Linux
- VxWorks
**Mobility**

**Studio Mobile Access (SMA) Thin Clients**
- Platforms: Agnostic
- Host: Web Browser agnostic
- Technology: HTML5

**Secure Viewer Thin Clients**
- Platforms: Windows
- Host: Secure Viewer (executable)
- Technology: ActiveX

**Web Thin Clients**
- Platforms: Windows
- Host: Web Browser (Internet Explorer)
- Technology: ActiveX
Interoperability

- **Over 240 Protocols (Drivers)**
  - OPC UA, DA, .NET, XML
  - TCP/IP
  - OPC Server
  - Gateway
  - XML
  - ODBC/ADO
  - DDE
  - OPC UA, DA, .NET, XML

- **Web (HTML & XML)**
  - Web Solution
    - Access to the system from anywhere using a single browser

- **Open Architecture**
  - System Integration
  - Product Customization

- **Plant Floor Integration**
  - Schneider-Electric, OMRON, GE FANUC, AllenBradley, Siemens, Modbus, Profibus, DeviceNet, ControlNet, Interbus, Beckhoff, and many others...

- **Mobile Access**
  - Email, data, and page interface from mobile devices

- **Client Stations**
  - Redundancy
  - Data Exchange in Real-Time
  - Third-Party Systems
  - Thin Clients

- **Enterprise**
  - Excel, Access, Oracle, MySQL, Sybase
  - SQL Server, SQL Azure, Wonderware Historian, Wonderware Online, InSight, and many others...
Wondeware Historian and Database Interface

**Easy-to-configure** interface to Wonderware Historian as well as any SQL Relational Database: SQL Server, Oracle, MySQL, Sybase, OSI PI, MS Access, Excel, and others...

Interface via **standard technologies**: ADO.NET, ADO, OLE-DB, and ODBC

**Redundancy and Store-and-forward** built-in features

**Alarm history, Event history, Trend history, Process data, OEE dashboards, and more.**
The Power of Choice: Support for all features in any product type always meets your needs.

Different product types to fit your budget.

### License Levels

<table>
<thead>
<tr>
<th>IDE and/or FULL RUNTIME</th>
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<tbody>
<tr>
<td>Windows 10</td>
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<tr>
<td>Windows 8</td>
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<tr>
<td>Windows 7</td>
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<tr>
<td>Windows Server 2016</td>
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<tr>
<td>Windows Server 2012</td>
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<td>Windows Server 2008 R2</td>
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<table>
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<tr>
<th>EmbeddedView, CEView, or IoTView</th>
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<tr>
<td>Windows Embedded Standard 7</td>
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<tr>
<td>Windows IoT</td>
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<td>Windows Embedded Compact</td>
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<tr>
<td>Windows Embedded 8 Standard</td>
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<tr>
<td>Linux</td>
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<td>VxWorks</td>
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### License Levels

- InTouch Edge HMI UNLIMITED
- InTouch Edge HMI 60K tags
- InTouch Edge HMI 3K tags
- InTouch Edge HMI 1K tags
- InTouch Edge HMI 500 tags

- InTouch Edge HMI 3K tags
- InTouch Edge HMI 2K tags
- InTouch Edge HMI 1K tags
- InTouch Edge HMI 500 tags
- InTouch Edge HMI 100 tags
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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