Introduction to InTouch
Edge HMI

1/8/2018  Version 1.0
InTouch Edge HMI
Overview
The Vision

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

Interoperability

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
ITME
Windows XP
Windows Embedded Standard 7
Windows Embedded Compact 5 / 6

2018
ITME 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 - ITME

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 HMI
Solution in Layers

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
Portability

Single, integrated development environment

InTouch Edge HMI Development Station

Develop once, Deploy anywhere

InTouch Edge HMI “Full Runtime”

- Windows 10
- Windows 8
- Windows 7
- Windows Server 2016
- Windows Server 2012
- Windows Server 2008 R2

EmbeddedView

- Windows Embedded Standard 7
- Windows IoT

CEView

- Windows Embedded Compact

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

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

Web Solution
Access to the system from anywhere using a single browser

Web (HTML & XML)
OPC UA, DA, .NET, XML

TCP/IP
OPC Server Gateway

XML
ODBC/ADO
DDE

Driver & Database API

Over 240 Protocols (Drivers)

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

Open Architecture
System Integration
Product Customization

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...

Web Solution
Access to the system from anywhere using a single browser

Web (HTML & XML)
OPC UA, DA, .NET, XML

TCP/IP
OPC Server Gateway

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ODBC/ADO
DDE

Driver & Database API

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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.
Licensing

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**

- ITME 60K tags
- ITME 3K tags
- ITME 1K tags
- ITME 500 tags

*Unlimited Tags and Thin Clients

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- ITME 2K tags
- ITME 1K tags
- ITME 500 tags
- ITME 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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