Introduction to InTouch Edge HMI 2017 Update 5

Version 8.1+SP5

November 2019

Agenda

Overview

Main features and competitive advantages

INTOUCH EDGE HMI

Overview

The Vision

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

Main Benefits

Productivity Reliability Security

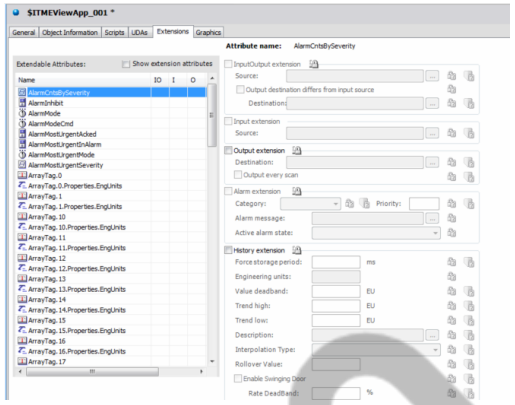
Portability

Mobility

Interoperability

Portfolio Integration

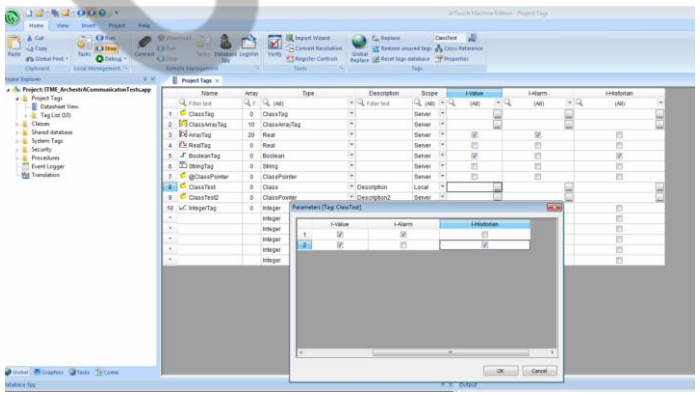
Best in class solution integrating local HMIs with central SCADA system, increasing productivity and quality



Wonderware System Platform

- ✓ 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

Wonderware InTouch Edge HMI



Value Proposition

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

Wonderware
InTouch Edge HMI

Develop your project once → Deploy and run it anywhere

Linux, Windows CE/Mobile, Windows Embedded, Windows Desktop and Server Editions, among others.

AVEVA™

Investment Protection and ROI

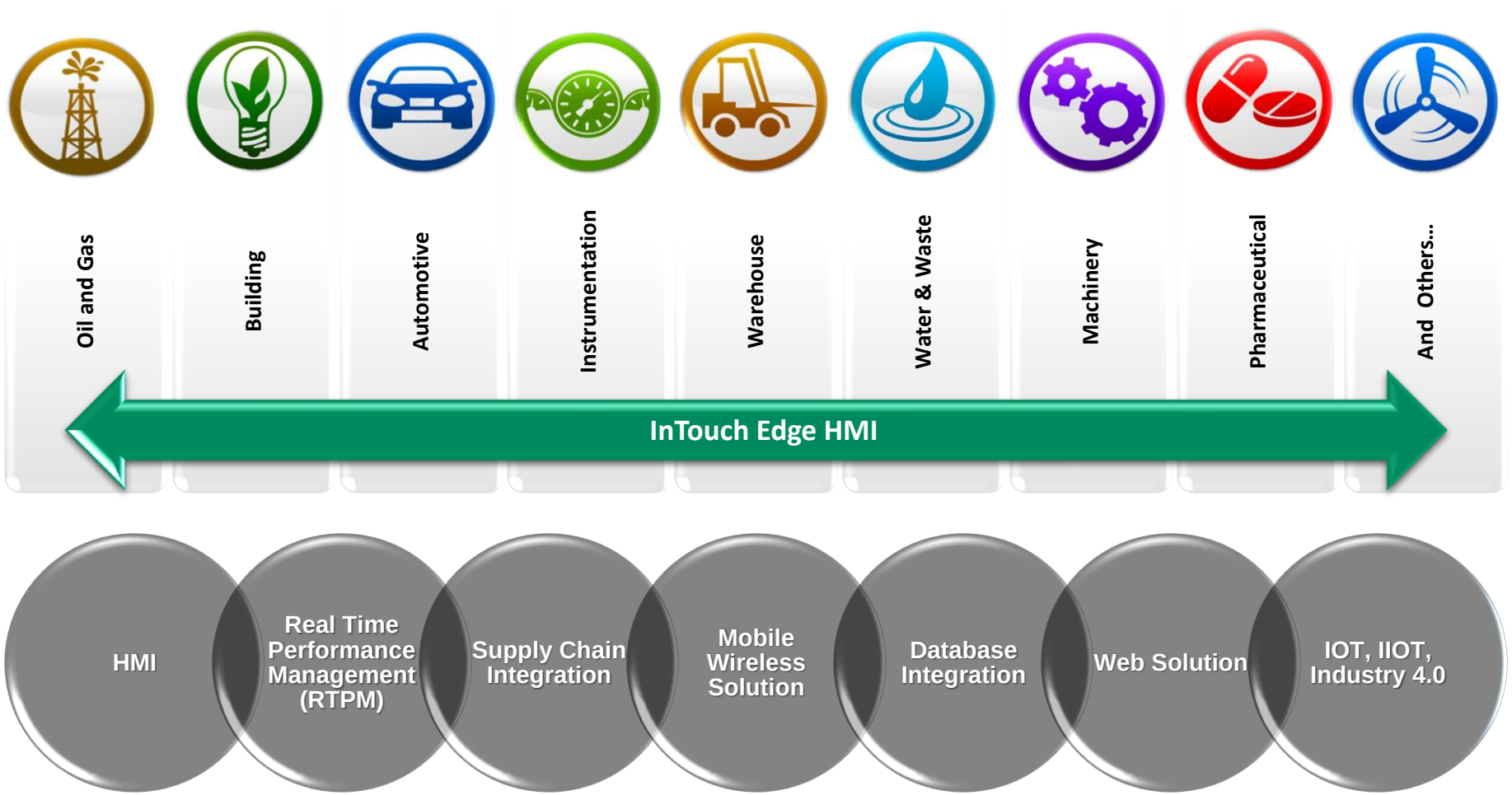
100% Compatibility with applications designed in previous versions

Evolve protecting your investment!

1997
InTouch Edge HMI
Windows NT
Windows 95
Windows CE

2019
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

Vertical Markets

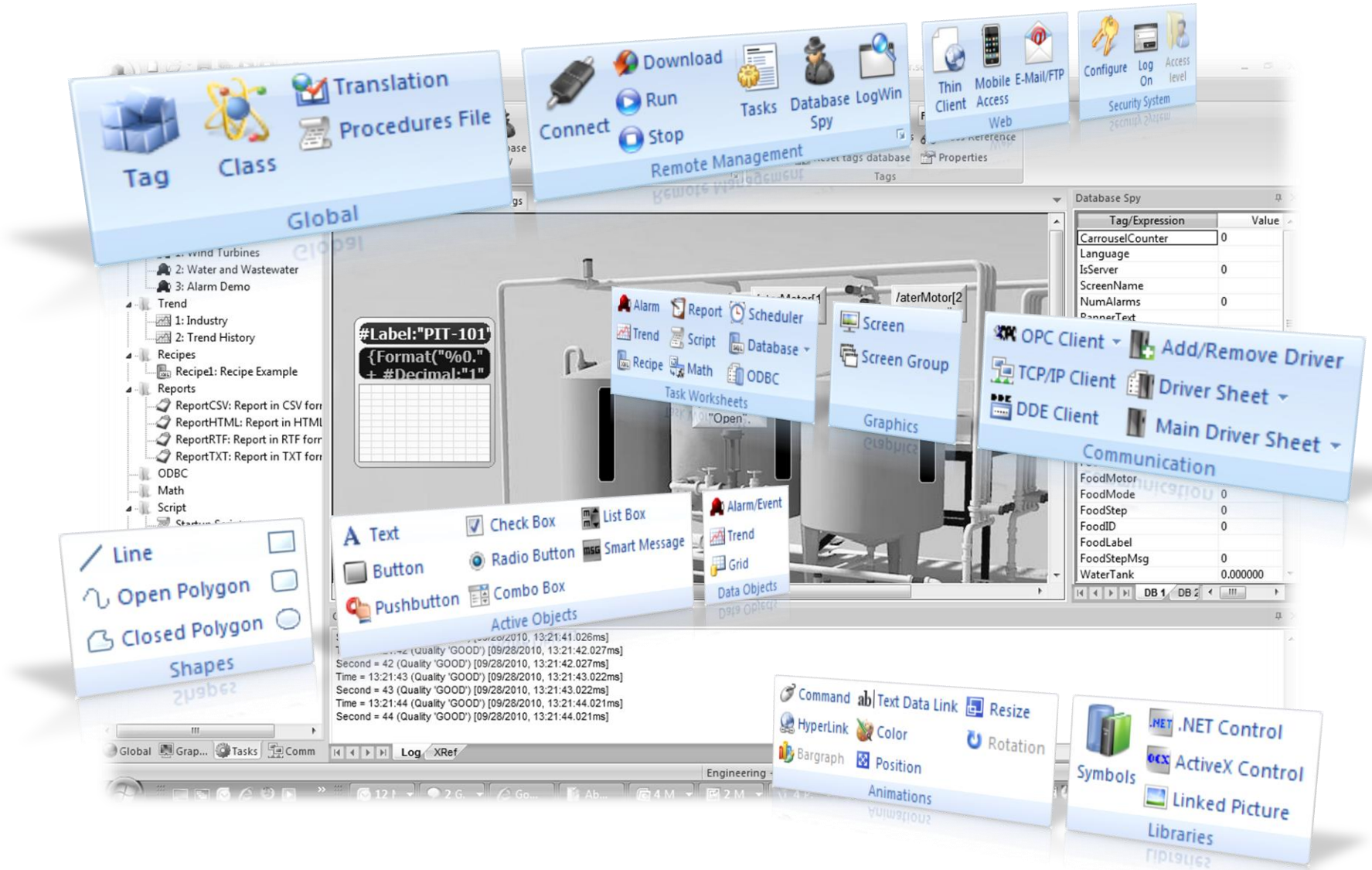


Any vertical market ... Any application

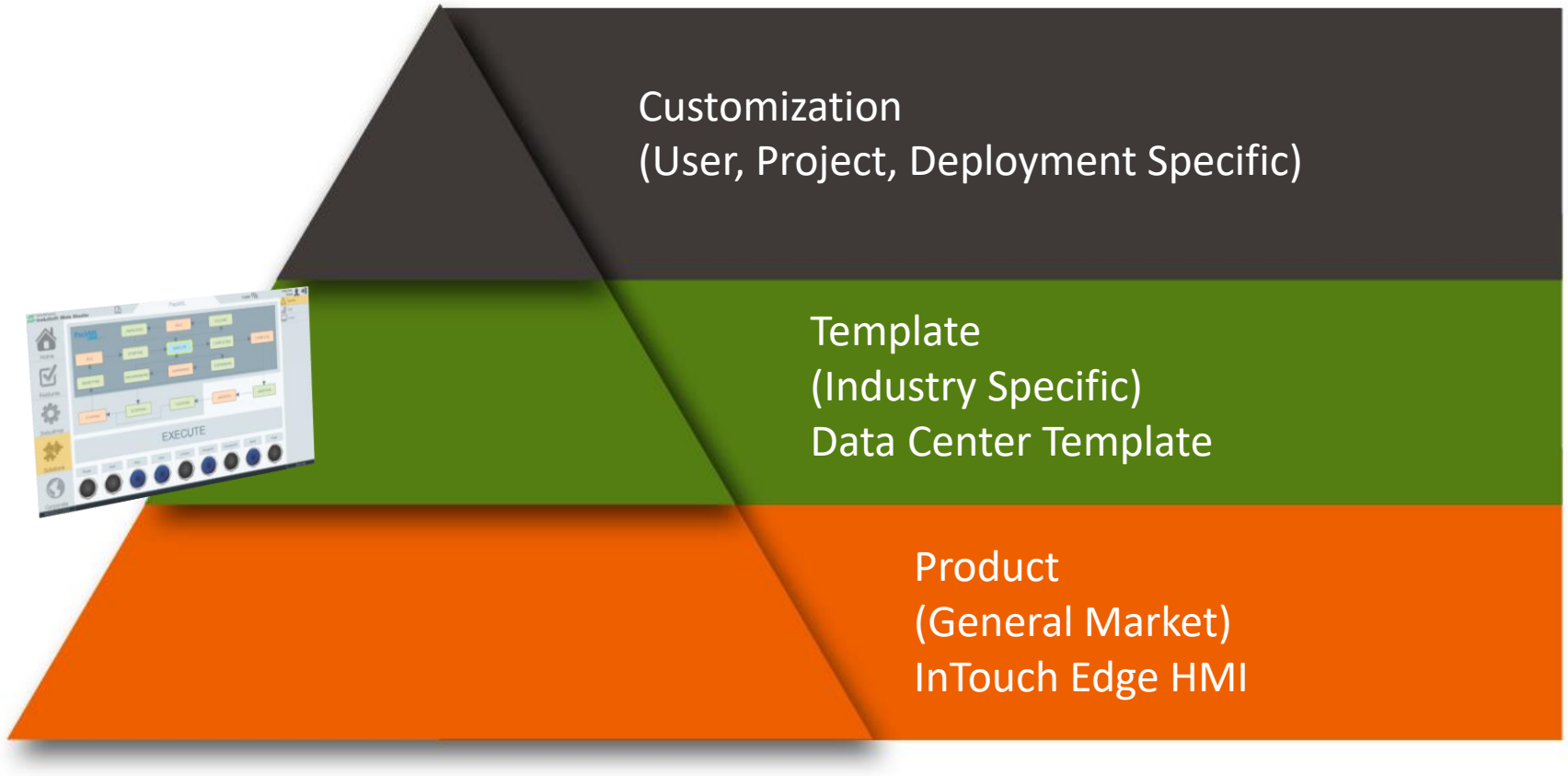
INTOUCH EDGE HMI

Main features and competitive advantages

Comprehensive set of tools for SCADA, HMI, and IoT Edge Solutions



Solution in Layers



OEM focused template architecture

Templates

PackML

“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

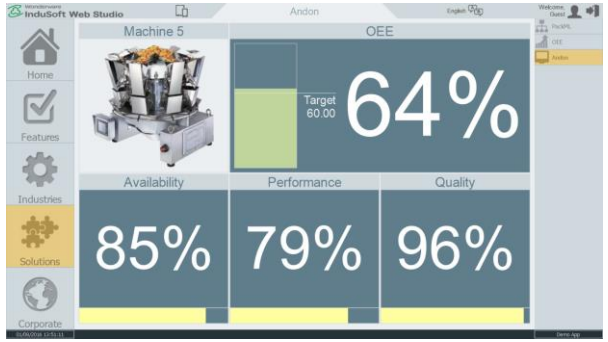
OEE

“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:

OEE = Availability X Productivity X Quality.”

-Reliable Plant Web Site

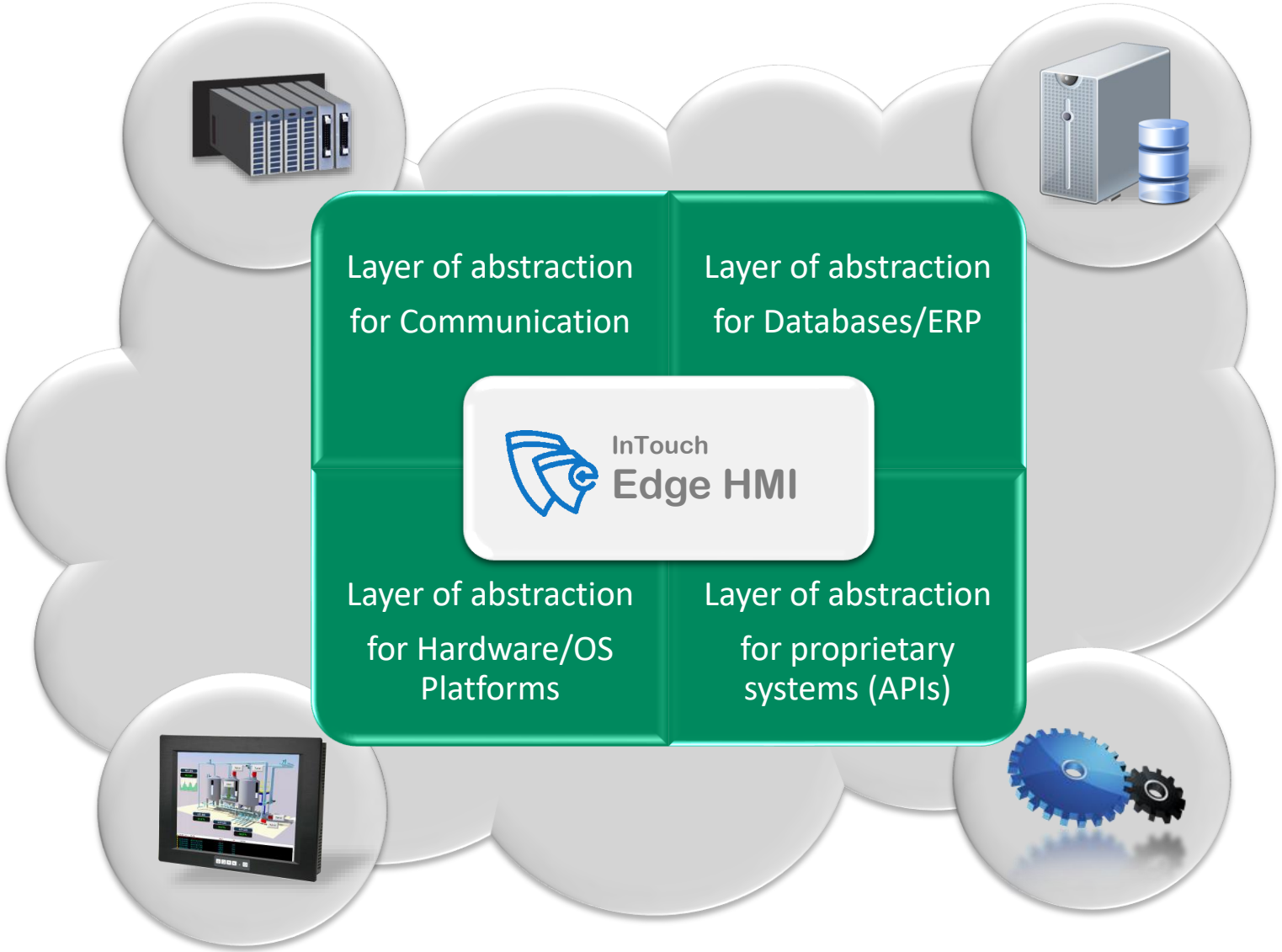
ANDON



“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

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 8 Standard

Compact HMI: CEView

Windows Embedded Compact

IoT Edge Solution: IoTView

Linux

Mobility

Studio Mobile Access (SMA) Thin Clients

Platforms: Agnostic

Host: Web Browser agnostic or app

Technology: HTML5

Secure Viewer Thin Clients

Platforms: Windows

Host: Secure Viewer (executable)

Technology: ActiveX

Web Thin Clients

Platforms: Windows

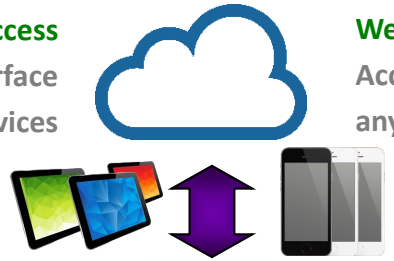
Host: Web Browser (Internet Explorer)

Technology: ActiveX

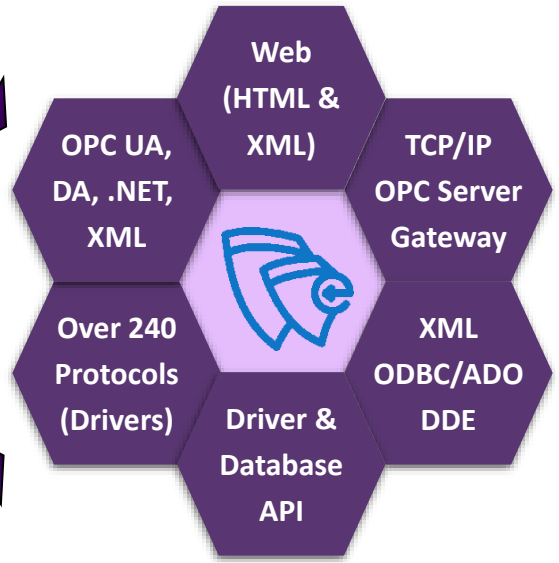
Interoperability

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

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



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



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...

Open Architecture
System Integration
Product Customization

AVEVA™

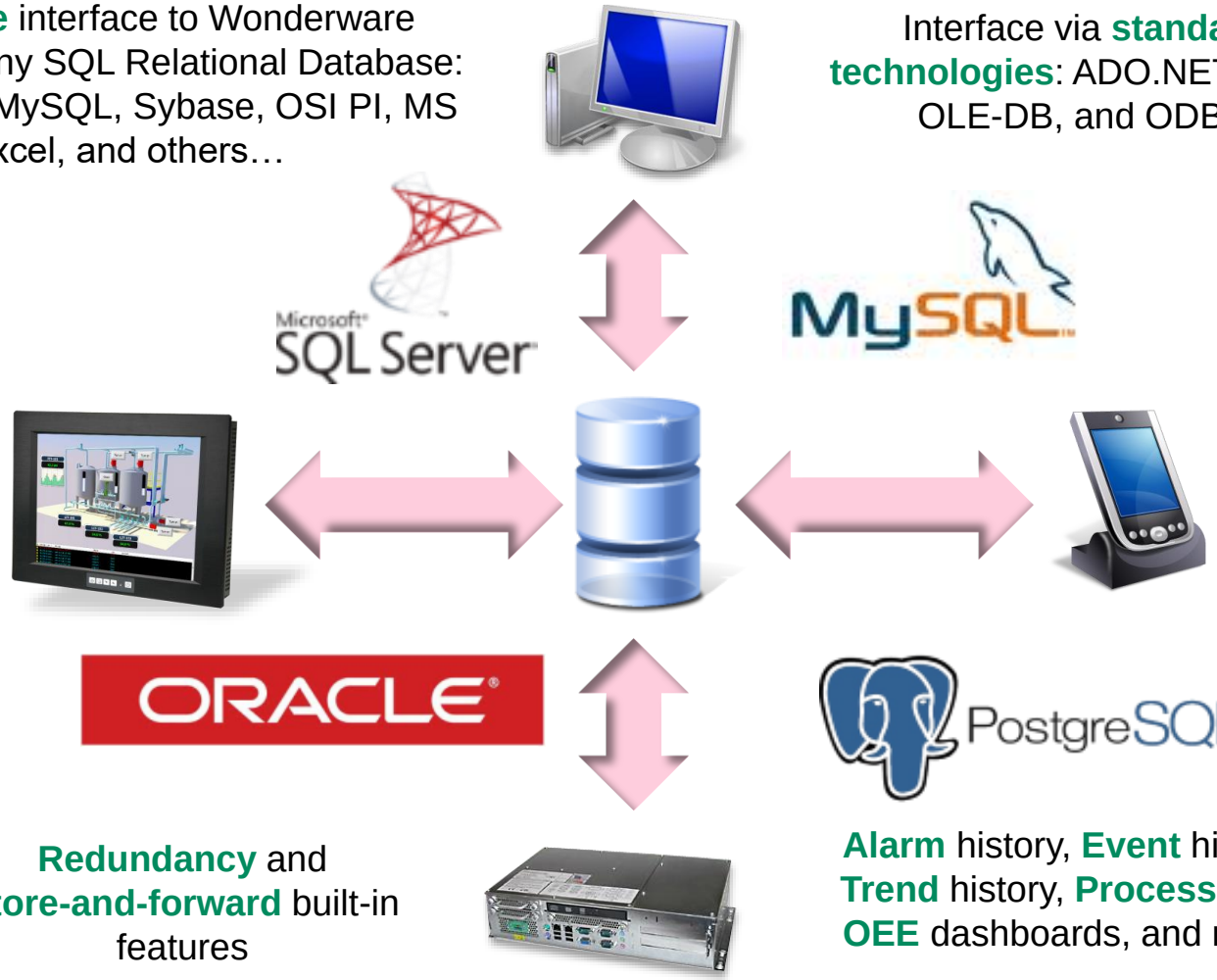
Wondeware Historian and Database Interface

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

AVEVA Insight

Wonderware Historian



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

Alarm history, **Event** history, **Trend** history, **Process** data, **OEE** dashboards, and more.

AVEVA

Import Wizards

Rockwell®
FactoryTalk™ ME/SE

Rockwell®
PanelBuilder32

EATON®
PanelMate

Wonderware
InTouch Edge HMI

Cost-effective method to modernize leveraging past engineering investments

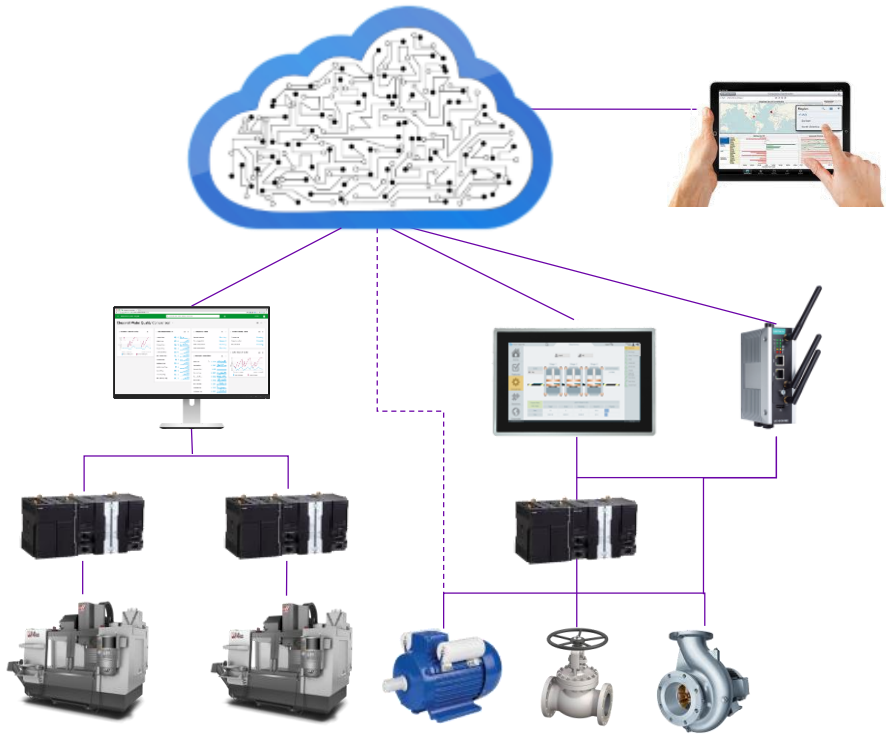
AVEVA™

Industrial Internet of Things (IIoT) / Industry 4.0

Main components

CLOUD

PREMISE



Cloud Analytics and Mobile Access

analytics, consolidation, artificial intelligence (AI), machine learning (ML), remote management/deployment, remote notifications and monitoring

Edge devices

data acquisition, data manipulation (aggregations, filtering, contextualization, normalization), link with the cloud, local maintenance, local operation

Instrumentation and Controllers

operational real-time control, raw data measurements

AVEVA™

Cloud-Based

Bottom-up approach

Typical Architectures

Cloud Analytics

AVEVA InSight

Enterprise SCADA

Wonderware System Platform

On Premise Enterprise Level

Architecture 5

Multiple Edge Solution deployments on premise – Asset Level, a Central Enterprise SCADA also on premise – Enterprise Level – consolidating information from all machines/lines on the plant, and a Central AVEVA Insight Analytics System – Cloud Level – consolidating information from all machines/lines on multiple plants.

Affordable: Subscription-based model

Interoperable: Open architecture and standards

Extensible: APIs and Partners-driven Ecosystem

Reliable: Modern design with mature architecture

On Premise Asset Level

Edge HMI

Wonderware InTouch Edge HMI

Edge HMI

Wonderware InTouch Edge HMI

Edge HMI

Wonderware InTouch Edge HMI

Edge HMI

Wonderware InTouch Edge HMI

. . .

Edge HMI

Wonderware InTouch Edge HMI

AVEVA

Licensing

The Power of Choice: Support for all features in any product type always meets your needs.

Different product types to fit your budget.

IDE and/or
FULL RUNTIME

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

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

EmbeddedView, CEView,
or IoTView

Windows Embedded Standard 7 · Windows IoT · Linux · Windows Embedded Compact · Windows Embedded 8 Standard · VxWorks

License Levels
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

AVEVA™

Key takeaways

COMPREHENSIVE AND EASY TO USE

Mature, robust, reliable solution with native interfaces and tools to provide a high level of productivity

FLEXIBLE AND OPEN

Native Portfolio Integration and support to standards and extensibility for 3rd-party system integration.

SUSTAINABLE AND AFFORDABLE

Continuously evolving with flexible commercial models that suit your needs (CAPEX or OPEX).

linkedin.com/company/aveva

@avevagroup

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.

aveva.com