InTouch & System Platform 2017 Update 3 Overview

Alarm Grid

"Live" camera feed

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Key Takeaways

Most Secure System Platform version we've ever released!
- ▲ Encrypted communications eliminate threat of Man in the Middle
- ▲ Single Sign On (SSO) logon of users with OS Active Directory Integration

Increase Engineering Efficiency with OMI Data Driven Model
- ▲ Object Wizards graphics can directly be placed in panes
- ▲ External content linking (documents, videos, images, etc.) with assets and navigation items provide additional context

Increase Operator usability & user experience
- ▲ All OMI Apps enabled with multi-touch & gesture support
- ▲ InTouch Web Client is full featured browser ready with HTML5 graphics, alarms and trends

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System Platform 2017
World's first Operations Management Interface (OMI)

Product Introduction

The operating system for the modern plant. The world's most prolific real-time control platform for Supervisory, SCADA, MES and IIoT application

Value Proposition

Our automation software provides as much as 40% increased efficiency in meeting changing business & market demands across industrial and manufacturing operations by eliminating the need for scripting, customization and leveraging reusable responsive HMI designs.

When it is Used

- Operations Management for hybrid, discrete, continuous manufacturing
- Need for standardization across multi-sites & plants
- Single Version of Truth – Centralized Information for Business Insights
- Running mission critical infrastructure with virtually zero downtime

How it is Used

- System of System. Unifies all essential system services into a single robust platform. Integrating multi-vendor systems and hardware
- Used to collect and analyze data with historians, intelligence and mobile reporting tools. Plug in MES, Batch & Workflow to streamline operation
- Enterprise wide visibility across Operational and Business organization
- An open and scalable foundation with centralized management to integrate and unify people, information, and processes with flexibility to rapidly adapt to business needs
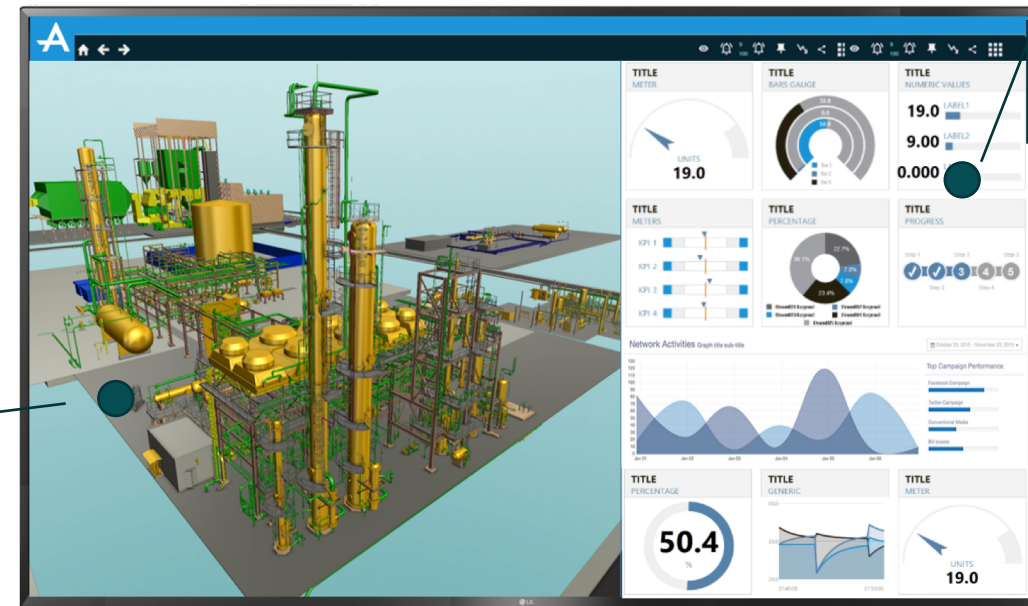
Operational KPIs Status Indicators

3D Site Overview

1D and 2D Viewers

InTouch OMI Navigation Tree

Live Process Graphics

Alarm Grid

"Live" camera feed

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System Platform 2017 Update 3
Expand OMI value, including Parity with InTouch HMI

New functionality

Parity functionality

Increased Engineering Efficiency

Object Wizards Directly in Panes	Advanced Numeric Formatting Support
Trend App Pen Context	Connector and Connection Points
Alarm App Area Model	
Alarm App Context Sharing	
Owning Object Multi-Galaxy Reference	
External Content Linking	

Improved User Experience/ Usability

Search Navigation Model	ITAA OMI Application Listing
Zoom-able Hotspots on AA Graphics	Alarm Shelving & Management
Touch Behaviors for All Apps	
IDE - Digital Exchange Integration	

IT Compliance/ Hardened Security

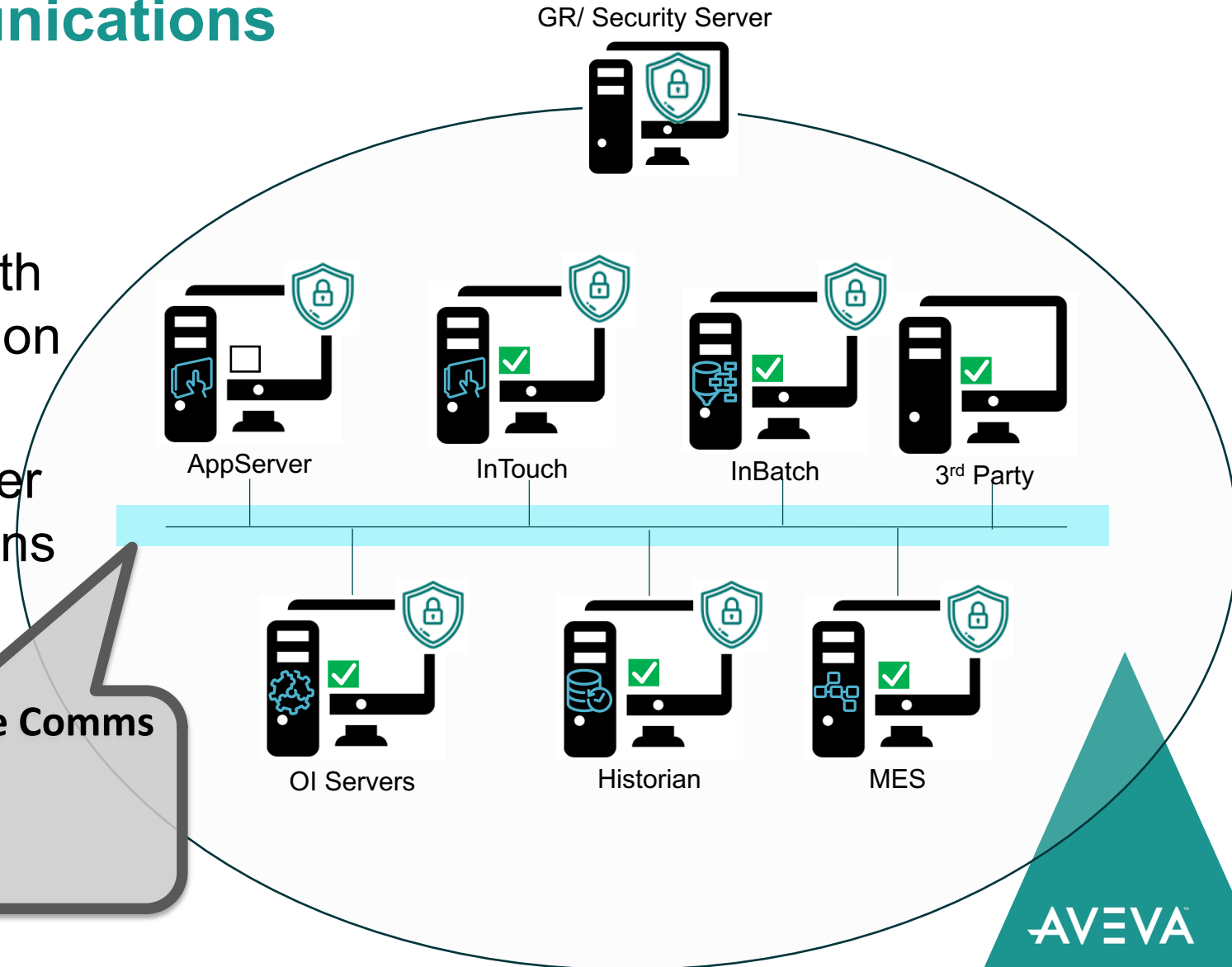|	
TLS Encryption	Read-only OMI ViewApps
License Server Monitoring	Auto-Logout due to inactive period
Non-Administrator Network Account	
Cross Galaxy IDE Acess	
Single Sign On with Active Directory	

Enhanced cyber-security hardening to support cloud and mobile
Secure Encrypted Communications

- Eliminates Man in the Middle Threats

- Enhanced TLS 1.2 security with automatic certificates generation and distribution

- Encrypting external SQL Server database password connections

- Encrypts Global Data Cache

All Node-to-Node Comms
- **SuiteLink**
- **MX**
- **iData**

GR/ Security Server

AppServer

InTouch

InBatch

3rd Party

OI Servers

Historian

MES

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Object Wizards & Symbol Wizards
Addressing equipment variability required and enforcing standards

▲ Data driven approach extended eliminates need
for scripting and heavy engineering effort

▲ Object Wizards Symbols can be used directly in
OMI panes without embedding in overview
graphic which simplified HMI engineering

Key Benefits:
- Ease of Use: Simplified configuration lowers
technical knowledge

- Scalability & Manageability: fewer number of
templates to accommodate varying
behavior/visualization of assets

- Standardization: driving consistency of assets
across heterogeneous PLC/controllers vendors
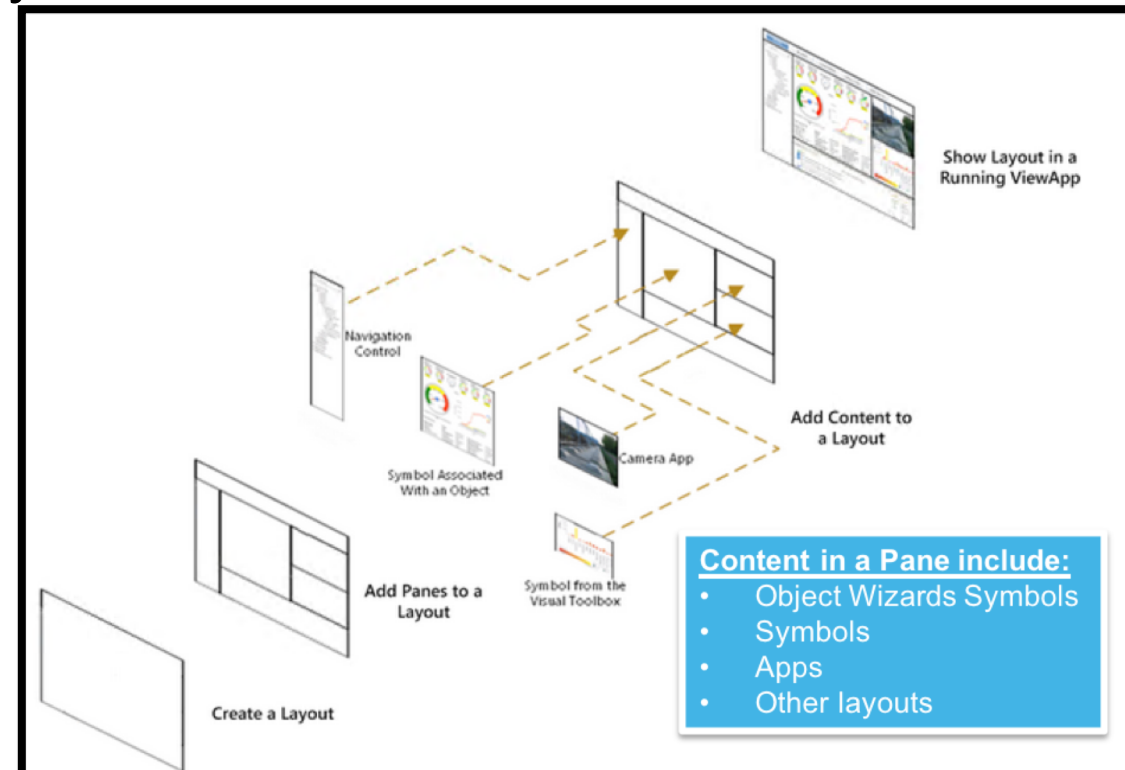
Link External Content for richer Operational View
Increase Situational Awareness thru Contextual Information

▲ Enable linking external content
(documents, videos, images, URLs)
with assets and navigation model

▲ Operators, Field Workers can see
standard operating procedures, 'how to'
Videos

▲ Integrate existing OEMs HMI screens
without re-engineering. Existing System
Platform users can launch InTouch HMI
displays within OMI
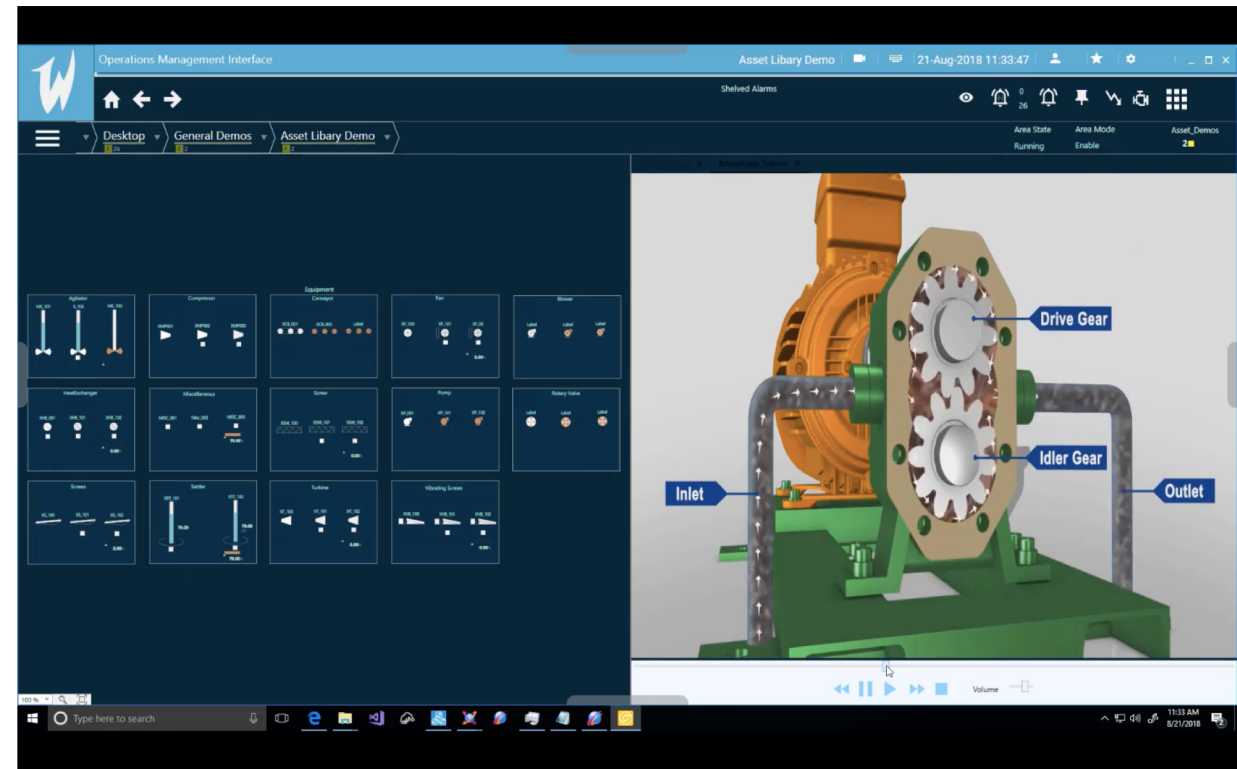
AVEVA Digital Exchange
Expanding the OMI Apps content to address IIoT

All Apps are Touch friendly
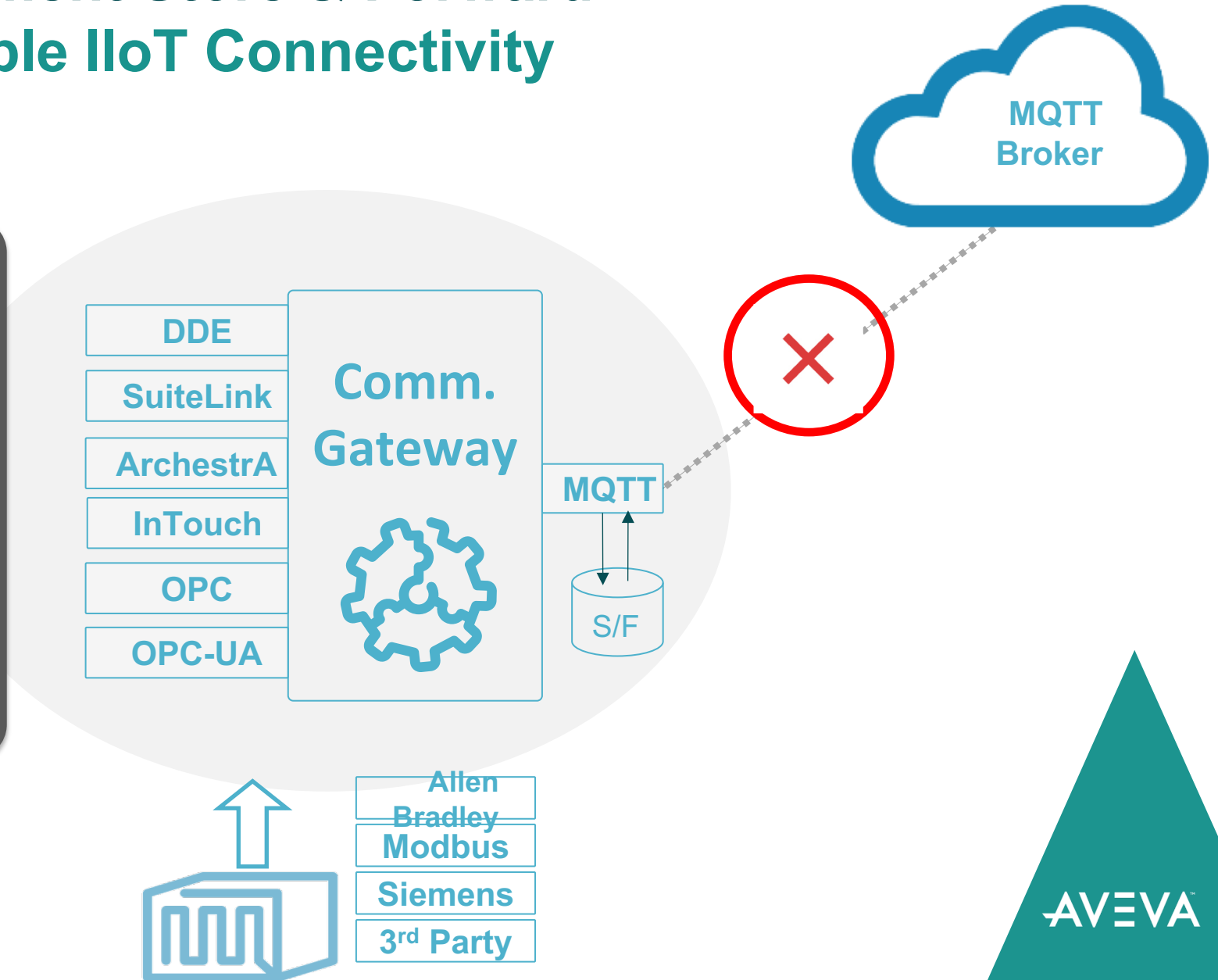## New SDK provides App Builders the power of Touch
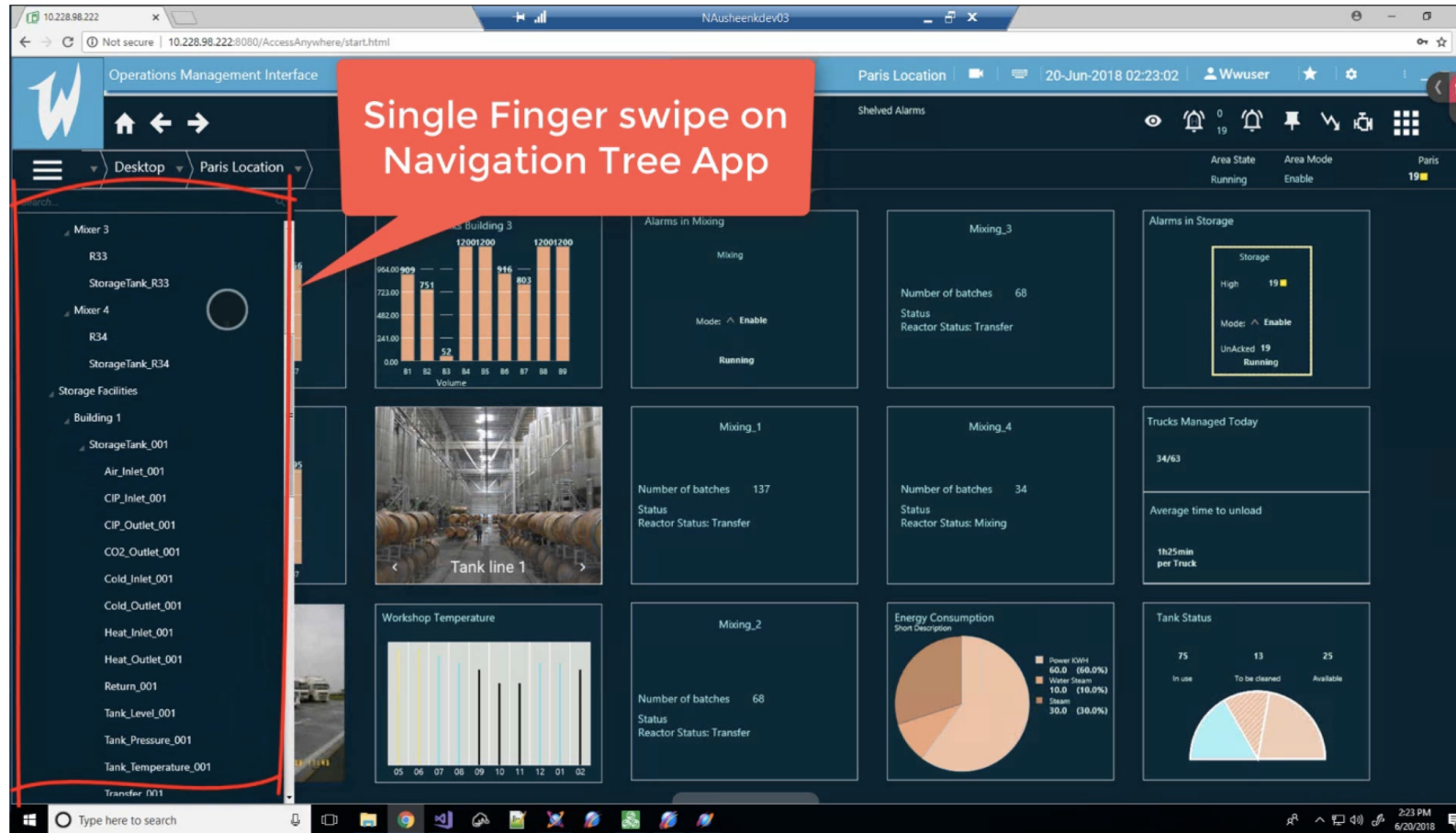
MQTT Plug-in Enhancement Store & Forward
Enabling robust & reliable IIoT Connectivity

MQTT Plug-in

- **Simple connectivity to any MQTT Broker**
- **Security**
  - **Connection Security**
  - **Identity Authentication**
- **Data**
  - **Simple / Complex Payloads**
  - **JSON Payload format**
- **Publisher of Industry Standard Data Sources**
- Store/ Forward

MQTT Broker

DDE

SuiteLink

ArchestrA

InTouch

OPC

OPC-UA

Comm. Gateway

MQTT

S/F

Allen Bradley

Modbus

Siemens

3rd Party

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InTouch HMI
2017 Update 3

InTouch HMI 2017 Update 3
Expanding reach to the cloud and web

New functionality

Parity functionality

Engineering Efficiency

Cloud Integration InSight Publisher

Hyperlink Animation

Publish AAG to Portals/Web pages

User Experience/ Usability

HTML5 Trend Client (Web Client)

Numeric Format Styles

HTML5 Alarm Client (Web Client)

Alarm Border Animation

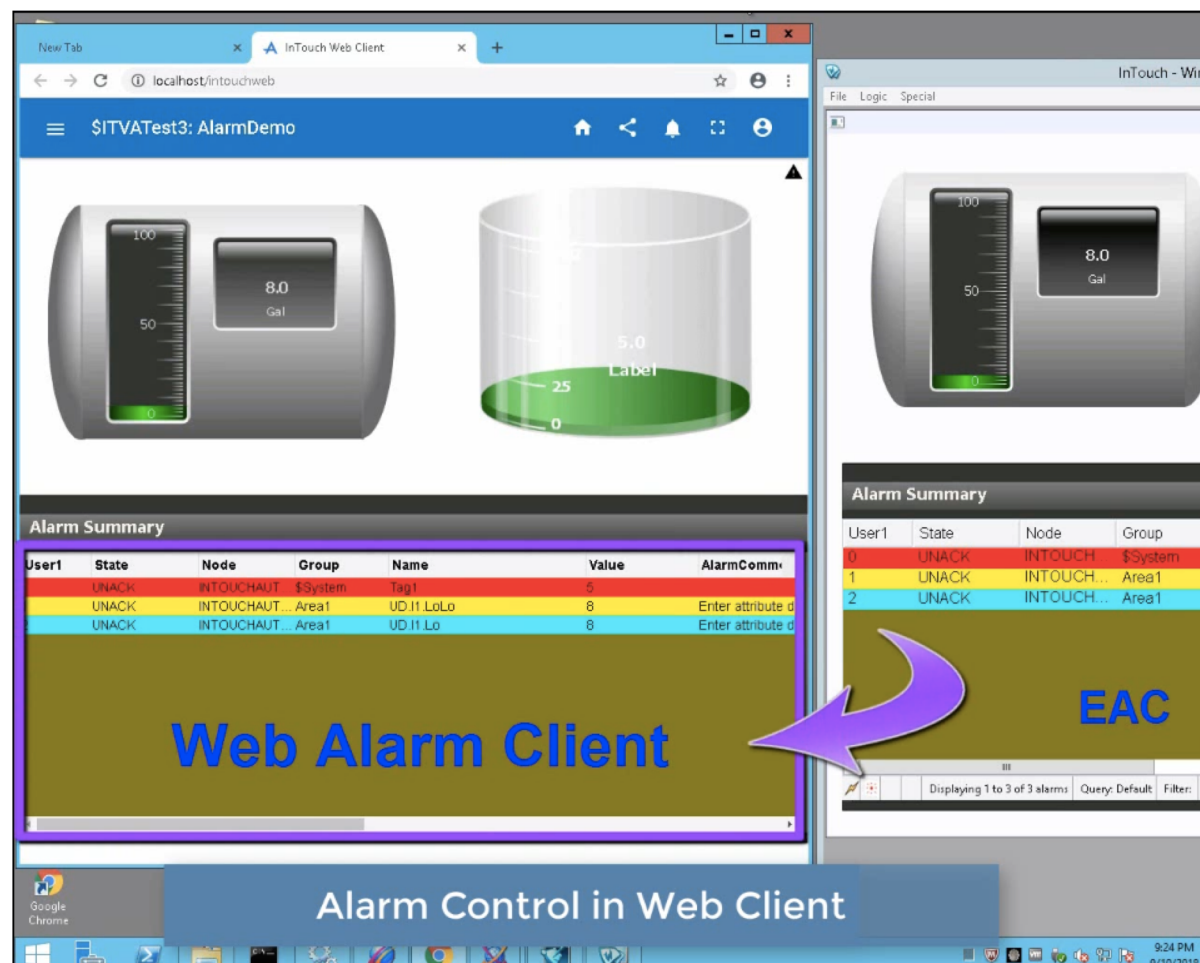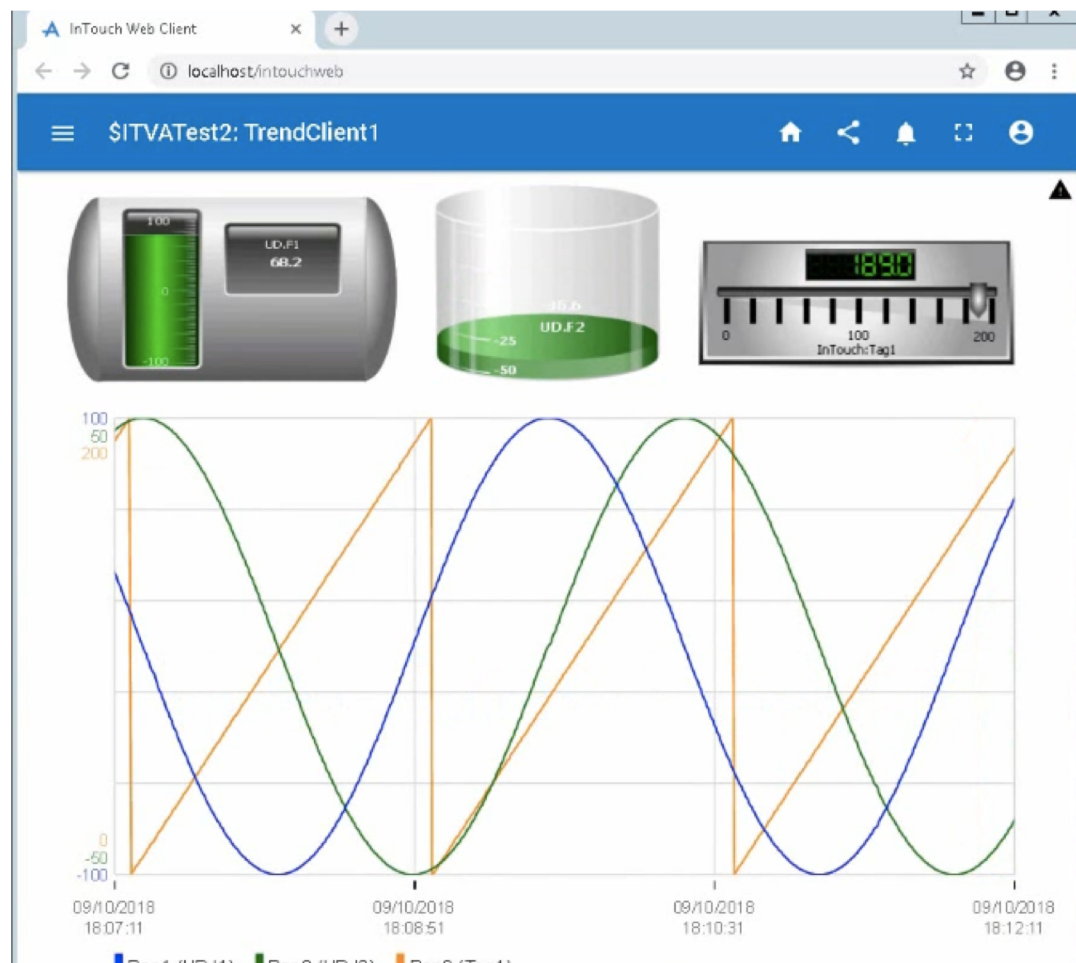Search Navigation Tree (Web Client)

Connector and Connection points

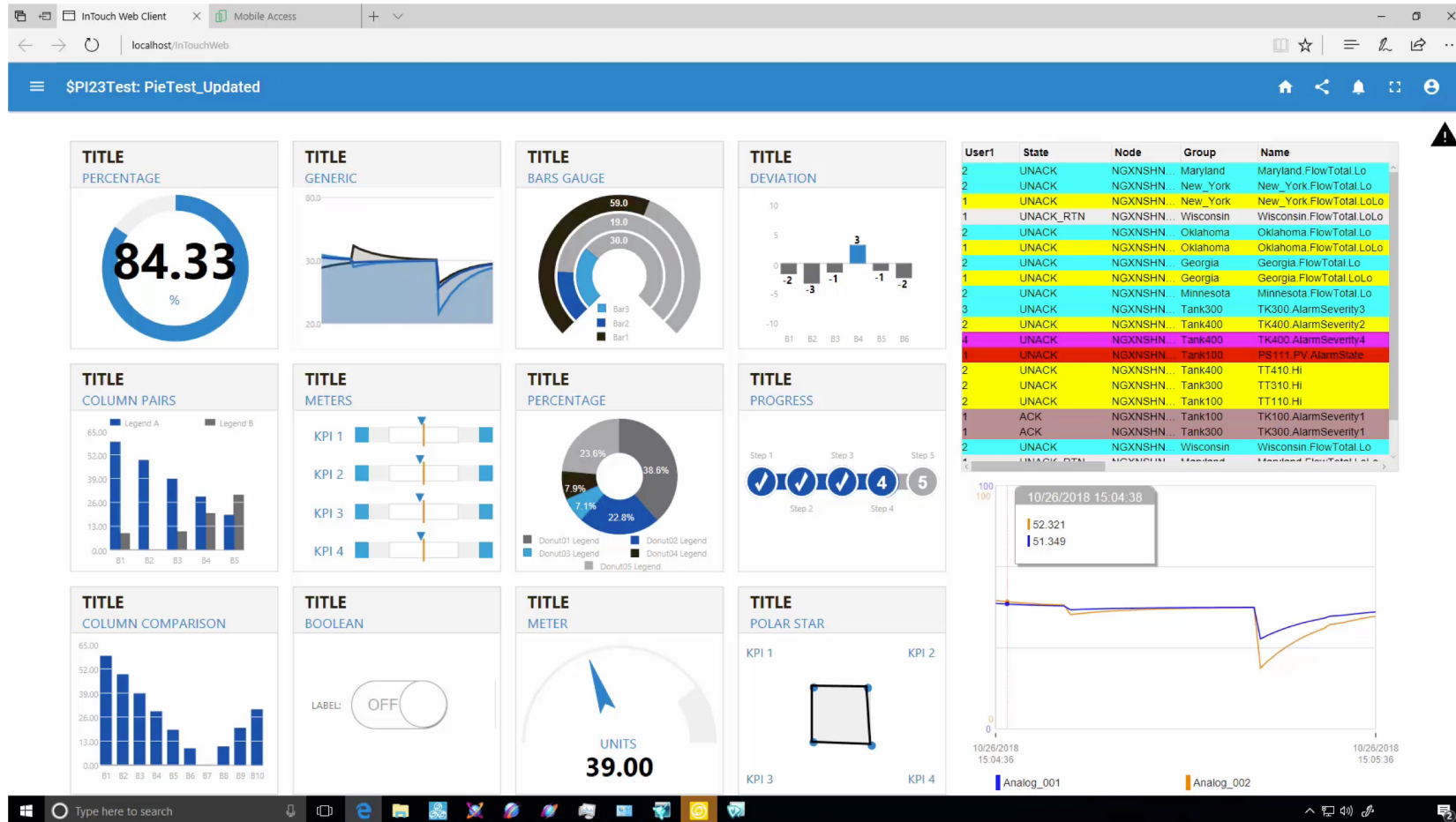**IT Compliance/ Security**

HTTPS Support

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New HTML Alarm and Trend Client
Protect your engineering investments in InTouch

InTouch Web offers browser support for existing InTouch applications without any re-engineering
HTML5 Graphics, Alarms and Trend support

Previous Enhancements

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InTouch HMI 2017 Update 2

Increased Engineering Efficiency

- QuickScript .NET functions are available for ArchestrA Graphics scripting

- Enhanced workflow for web client publishing enabling rapid iterative development & testing

Increased Usability of the Web Client

- Web Client supports comprehensive set of ArchestrA Graphics

- Web Client improved look and feel in full screen browser mode

- Web Client Improved display rendering performance

- Web Client support across all majors browsers (IE, Edge, Chrome, Safari)

- Web Client supports mobile devices (iOS and Android OS)
- Web Client supports pan & zoom across all major browsers

IT Compliance & Reliability

- Alarm DB Logger and related utilities support OS authentication in addition to SQL authentication

- Managed Applications do not require Admin privileges

- WindowViewer OS Shutdown Event Handling - enables activated license release when detecting the OS is ending a Remote Desktop session

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System Platform 2017 Update 2

Engineering Efficiency

- OMI Live Preview

- ViewApp Namespace

- 'Show Content' API

User Experience & Usability

- Enhanced Navigation Tree with Search built-in

- Alias Names for Assets in the Navigation Model

- User defined navigation hierarchy

IT Compliance

- Ability to run Integrated Development Environment (IDE) no longer requires ADMIN privileges

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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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