

The background of the image is a deep purple with a network of glowing, intersecting diagonal lines in shades of cyan and magenta, creating a diamond-shaped pattern. Centered in the middle of the image is the text "AVEVAWORLD" in a bold, white, sans-serif font. The letter "E" is stylized with three horizontal bars.

AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

AVEVA WORLD MILAN, MAY 2026

AVEVA InTouch HMI

Graphics, Structures, and Python, Oh My!

Rickard Norin, Senior Product Manager, AVEVA

AVEVA

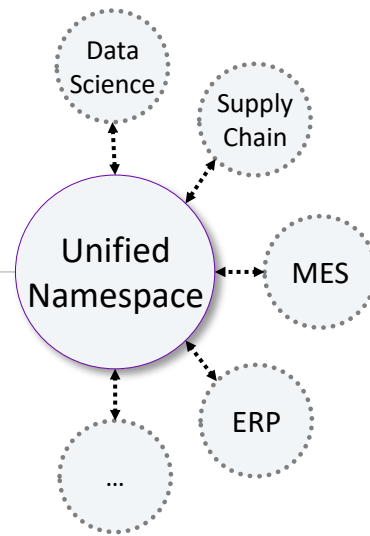
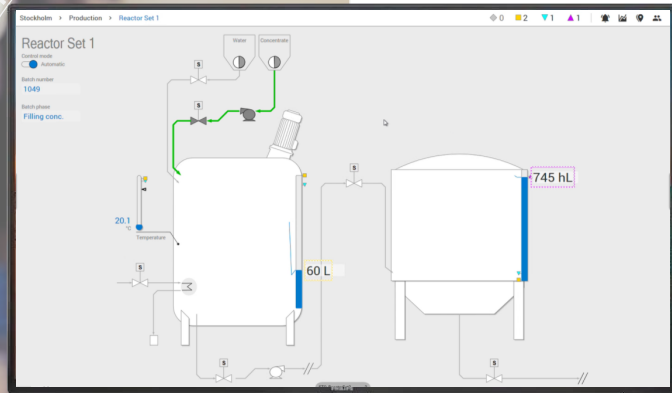
Rickard Norin

Senior Product Manager

- AVEVA
- rickard.norin@aveva.com



Traditional vs Modern at the Industrial Edge



OPC UA

Sparkplug[®]
MQTT.ORG

{RESTful API}

AVEVA

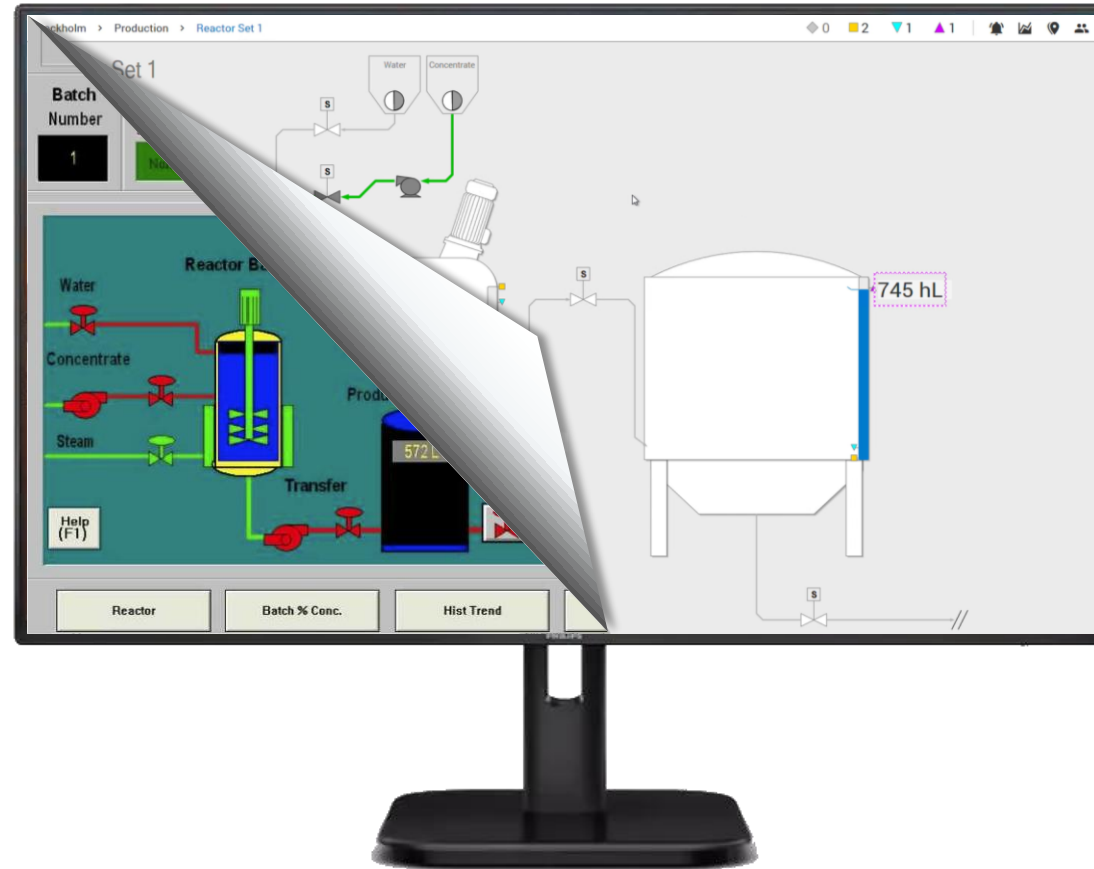
Maintain and Modernize

Retain support for legacy tools and features

- Flat tag dictionaries
- InTouch legacy graphics
- InTouch QuickScript
- Edge VBscript
- Wizards / GOT objects
- ActiveX controls
- .NET controls

Minimal improvements

- Cyber Security updates
- Enhanced migration to modern features



Invest in modern tools and features

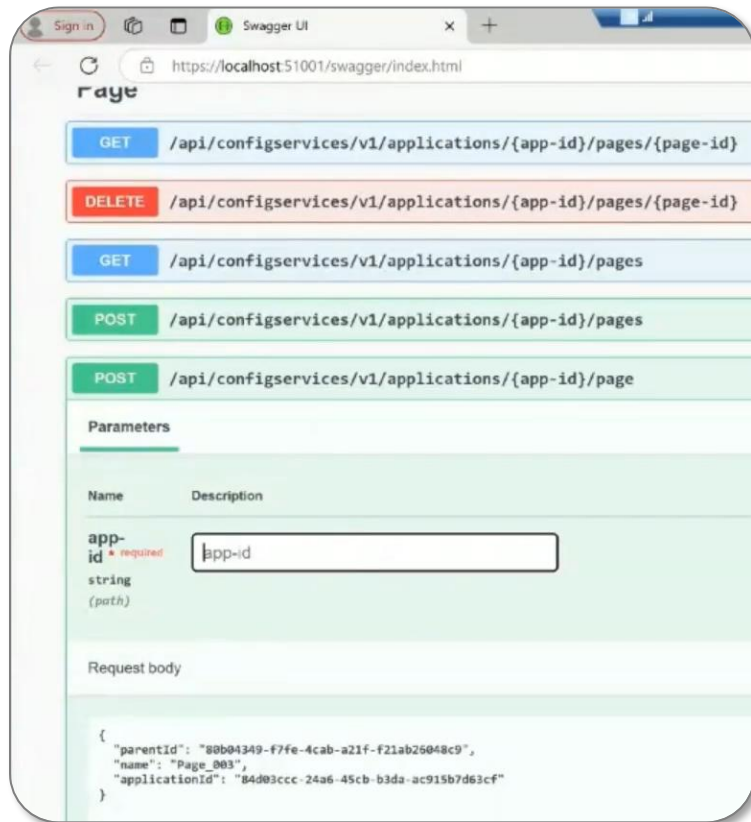
- APIs and MCP servers
- Structured types/objects
- More base data types
- Python scripting
- C# scripting
- Web clients
- Web widgets

Key focal points

- Secure by default
- Expand on addressable data landscape
- Openness in all aspects

Openness in all aspects

API-driven configuration



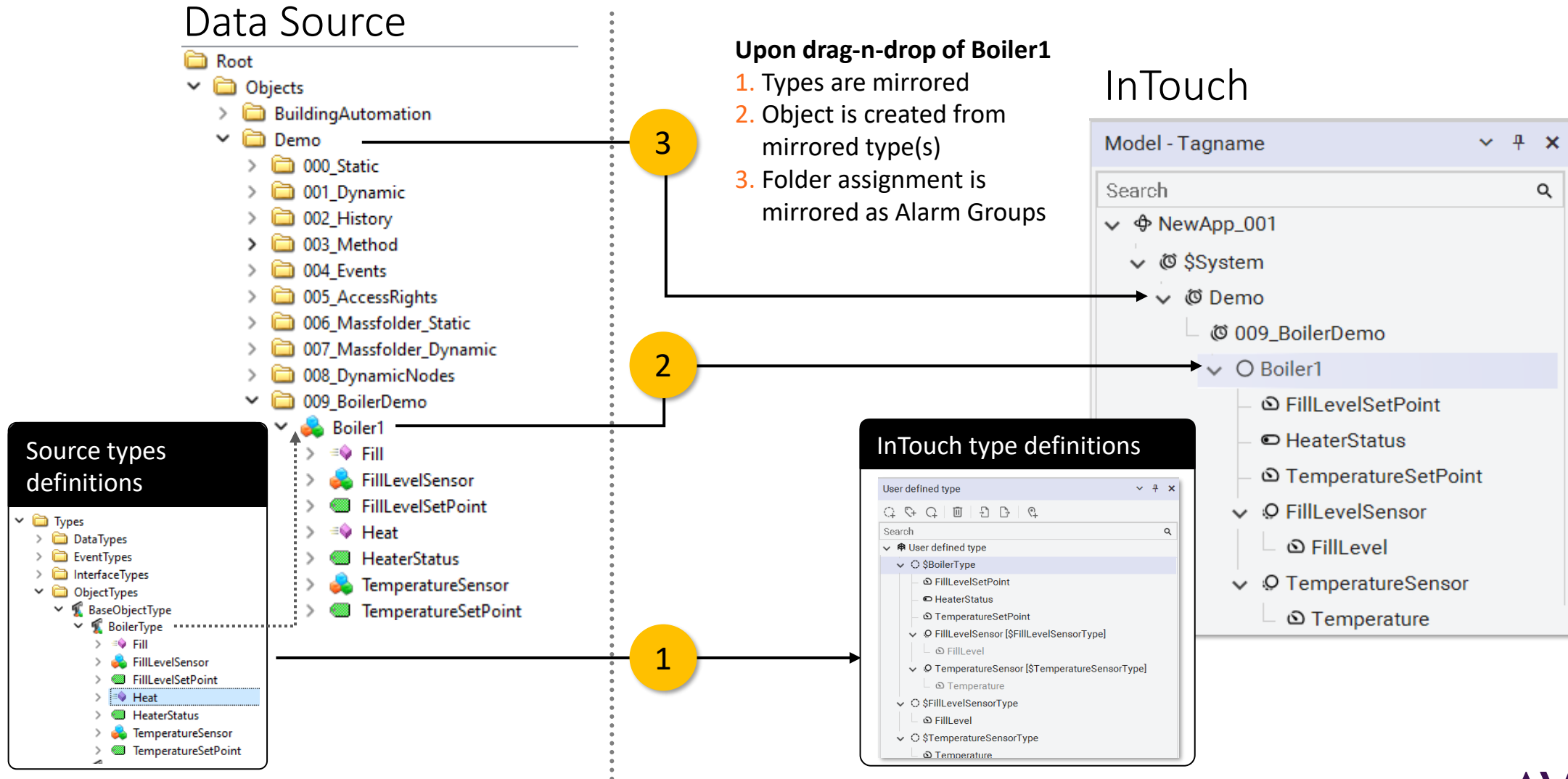
Interoperability



Logic & Extensibility



Rapid mirroring of objects *and standards* from source to HMI



OCMC - [Operations Control Management Console]

File Action View Help

Operations Control Management Console (ASCENSION)

Operations Integration Server Manager

Default Group

Local

[Admin] Operations Integration Supervisory Ser

Internal - SIM

Standards - Gateway

OI.GATEWAY.3

Configuration

UACPP

Diagnostics

Standards - MQTT

Log Viewer

Platform Manager

Node Type: OPCUA Delimiter: .

UACPP Parameters

OPCUA Server Details:

OPCUA Server Endpoint URL:

OPC UA Server Certificate: Thumbprint: 92DDF3684C7F9355C5A3950C3B411FE35A092C92

☐ Use Reverse Connect (OPC UA Server will initiate connection to OI Gateway)

OI Gateway Endpoint URL:

To configure the OPC UA certificate please refer to OI-Gateway user's guide

☐ Allow Optional Data Type Suffix In Item Name ☐ Create New Session After Reconnection

Advanced Configuration

Item Validation Retries

Retry Attempts:

Retry Period: minute(s)

Security Policy

☐ None
☐ Basic256Sha256
☒ Aes128_Sha256_RsaDaep
☐ Aes256_Sha256_RsaPss

☐ Basic128Rsa15 (deprecated)
☐ Basic256 (deprecated)

Security Message Mode

☐ Sign
☒ Sign & Encrypt

User Credentials

☐ Anonymous User

User Name:

Password:

EVA

ASCENSION

8 Core 2.5 GHz Unknown Family 6, Model 9A
8191 MB
Address: 192.168.2.187
Network Speed: 574 Mb/s

Windows taskbar icons: Start, Search, Task View, File Explorer, Edge, OCMC, Settings, Task Manager, Network, Volume, Battery.

8:58 AM
4/30/2026


```
C:\> Users > Admin > Documents > VerticalMeter.xml
1  <?xml version="1.0" encoding="utf-8"?>
2  <aa:Symbol GraphicVersion="415" Name="" Left="0" Top="0" Width="500" Height="500" LocalLeft="0" LocalTop="0" LocalWidth="500" LocalHeight="500" HasTransform="False" Enabled="True
3  <CustomProperties>
4    <CustomProperty Name="PV" DataType="Float" Locked="False" Visibility="Public" Overridden="False">
5      <Expression Expression="0.0" />
6    </CustomProperty>
7  </CustomProperties>
8  <Font Name="Arial" Size="12" Bold="false" Italic="false" Strikeout="false" Underline="false" Charset="0" VerticalFont="false" />
9  <GraphicElements>
10   <Rectangle Name="Rectangle7" Left="200" Top="90" Width="80" Height="140" LocalLeft="200" LocalTop="90" LocalWidth="80" LocalHeight="140" HasTransform="False" Enabled="True" Loc
11   <FillStyleData VerticalPercentFill="100" HorizontalPercentFill="100">
12     <FillStyle FillType="Solid">
13       <SolidFill>
14         <FillColor R="131" G="131" B="255" A="255" />
15         <Transparency>0</Transparency>
16       </SolidFill>
17     </FillStyle>
18     <UnfilledStyle FillType="Solid">
19       <SolidFill>
20         <FillColor R="204" G="204" B="204" A="255" />
21         <Transparency>0</Transparency>
22       </SolidFill>
23     </UnfilledStyle>
24     <FillBehavior>Both</FillBehavior>
25     <HorizontalDirection>Right</HorizontalDirection>
26     <VerticalDirection>Up</VerticalDirection>
27     <FillOrientation>RelativeToGraphic</FillOrientation>
28   </FillStyleData>
29   <LineStyleData>
30     <LineStyle Weight="0" LinePattern="Solid">
31       <FillStyle FillType="Solid">
32         <SolidFill>
33           <FillColor R="0" G="0" B="0" A="255" />
34           <Transparency>0</Transparency>
35         </SolidFill>
36       </FillStyle>
37     </LineStyle>
38   </LineStyleData>
39   <Animations>
40     <VerticalPercentFill Enabled="true">
41       <Analog Expression="PV" />
42       <ValueMin Expression="0" />
43       <ValueMax Expression="100" />
44       <PercentMin Expression="0" />
45       <PercentMax Expression="100" />
46       <UnfilledStyle FillType="Solid">
47         <SolidFill>
48           <FillColor R="204" G="204" B="204" A="255" />
```

PREVIEW – SUBJECT TO CHANGE

Tip: Try the Plan agent to research and plan before implementing changes.

+ VerticalMeter.xml

Describe what to build

+ | Auto |

Local | Default Approvals

Method

/'meθ.əd/

noun

A method in object-oriented programming (OOP) is a *procedure* associated with an object, and generally also a message.

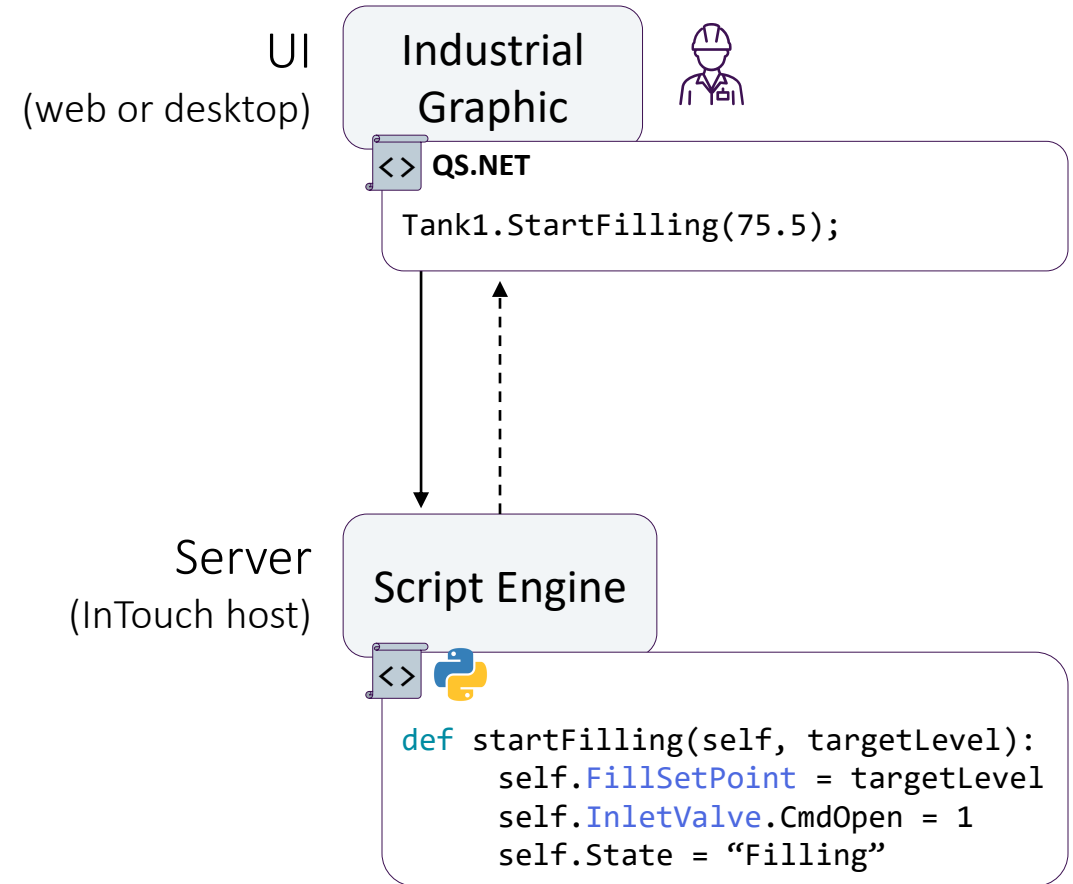
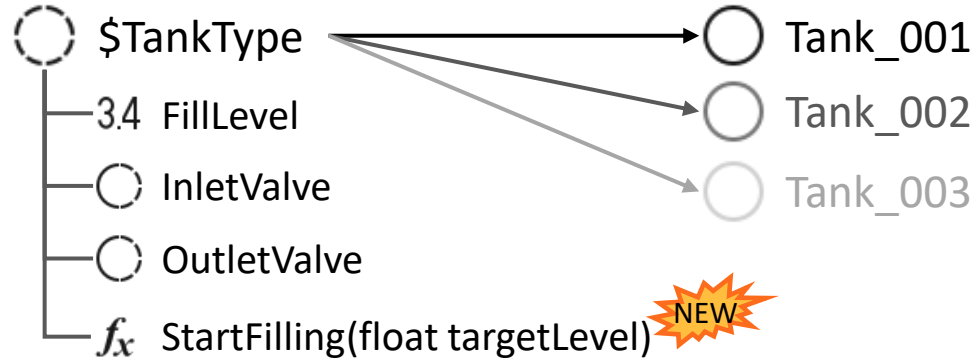
A method is a *behavior* of an object parametrized by a user.

UDT Scripts

InTouch adds the ability to model **actions** and **behaviors** of structured objects in the form of **Script members**.

Phase 1, delivered with InTouch 2026, extends UDTs with **Methods** which are invoked from client-side scripts.

- *Force multiplier for any application and the new InTouch web client in particular*
- *Enabler for integration with Data Ops platform*
- *Runway toward wider support of OPC UA, IEC-60870, DNP3, HTTP, and other open standards*



FileHomeDrawAnimationPropertiesViewHelp

SearchWeb ClientRuntime

PasteCutCopyDuplicateClipboard

ButtonTextGraphicsInsert

SmartSymbolWizards

Bring to frontSend to backRotateArrange

HorizontalVerticalCenter pointsSpacing

MakeBreakGraphic

MakeBreakCell

Alarm groupsAlarms

Tag dictionaryTags

PREVIEW – SUBJECT TO CHANGE

User defined typeModel - TagnameCanvasGraphic_001Properties

Search

User defined type

- \$BaseEventType
- \$ControllerType
- \$StateMachineType
- \$StateType
- \$TransitionType
- \$WeatherData
 - Humidity
 - Latitude
 - Longitude
 - Temperature
- MilanWeather

Model - Tagname

- NewApp_002
 - \$System
 - Milan
 - BuildingAutomation
 - AirConditioner_1
 - Humidity
 - HumiditySetpoint
 - PowerConsumption
 - State
 - Temperature
 - TemperatureSetPoint
 - StateCondition
 - MilanWeather
 - Humidity
 - Latitude
 - Longitude
 - Temperature
 - structTest
 - 012 \$AccessLevel
 - \$AccessTokenChanged
 - \$ApplicationChanged
 - \$ApplicationVersion
 - \$ChangePassword
 - \$ConfigureUsers

CanvasGraphic_001

AirConditioner_1



Temperature#####.##



Humidity#####.##

Properties

Ready

en-US X,Y 0,0

100%

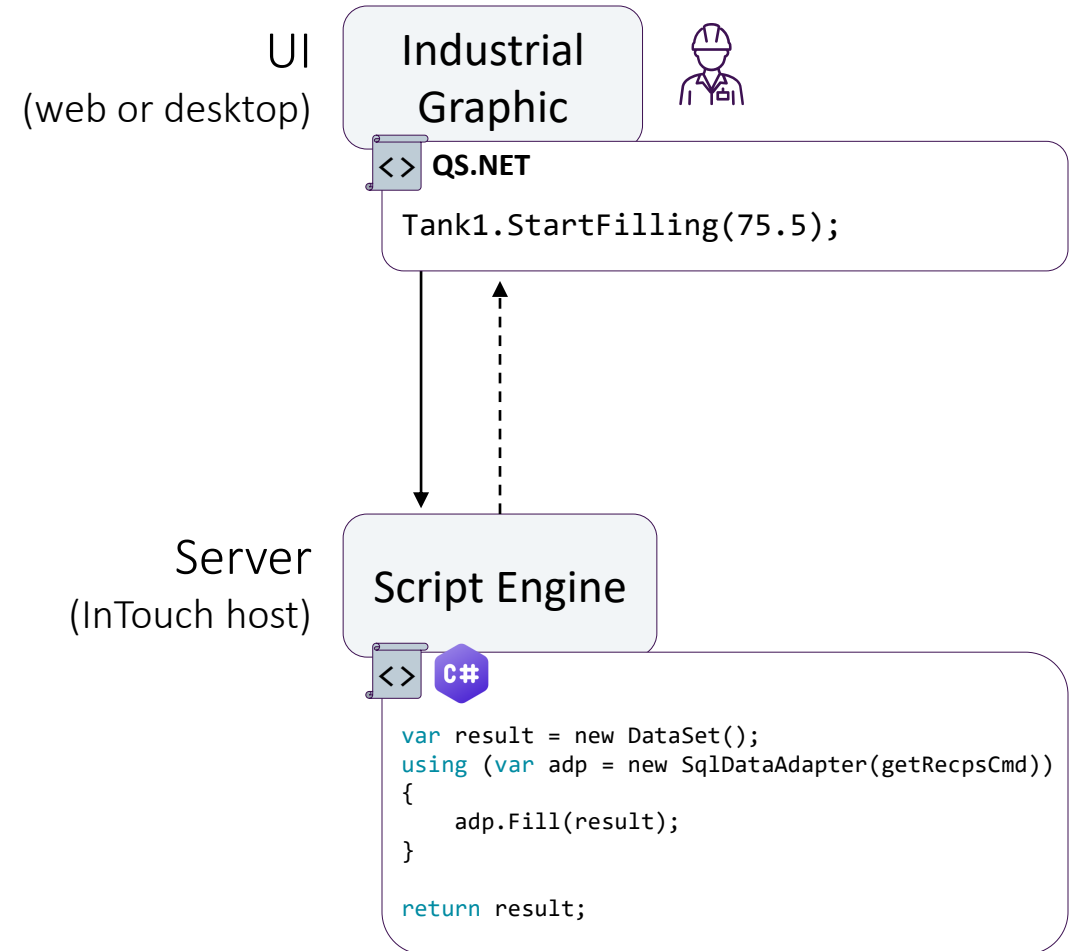
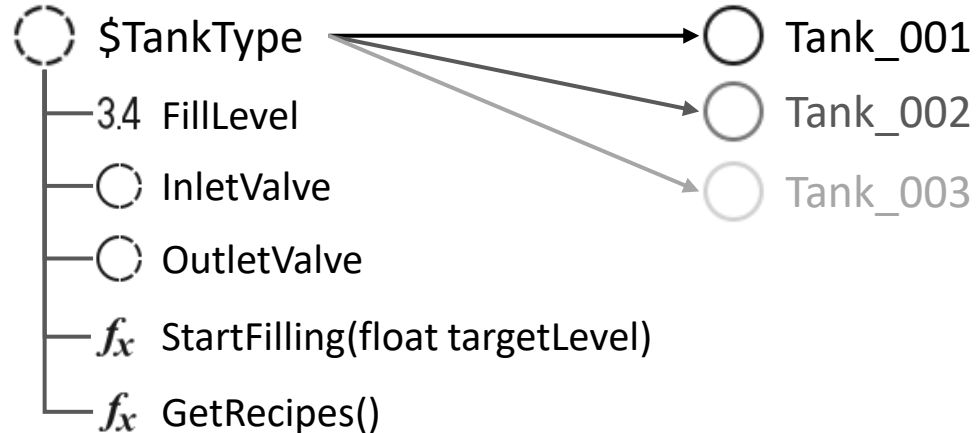
10:58 AM 5/8/2026

UDT scripts

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FileEditViewGitProjectQuery DesignerToolsExtensionsWindowHelpSearch

New Query

Execute

Change Type

SQL

Sign in

Object Explorer

Connect

localhost (SQL Server 17.0.1000 - ASCENSION\Admin)

Databases

System Databases

Database Snapshots

Recipes

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.AuditTrail

dbo.Recipes

Views

External Resources

Synonyms

Programmability

Query Store

Service Broker

Storage

Security

Security

Server Objects

Replication

Management

XEvent Profiler

ASCENSION.R...dbo.Recipes

	Name	Description	MixingSpeed	MixingDuration	TargetTemper...	WaterQty	FlourQty	EggsQty
▶	Gnocchi	Scrumptious g...	10	15	35	50	50	25
	Lasagna	Layers of lasagna	11	16	30	40.5	59.5	25
	Fusilli	Fantastically fu...	12	17	31	44	56	25
	Farfalle	Fancy black tie ...	13	13	34	42	58	25
	Bucatini	The bucatini st...	12	15	35	41	59	25
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

1 of 5

PREVIEW – SUBJECT TO CHANGE

Ready

1:24 AM 5/15/2026

InTouch web client adopting AVEVA's common framework

Collaboration thrives with unambiguous and consistently-visualized information

One graphics technology

Rich immersive AVEVA™ Industrial Graphics

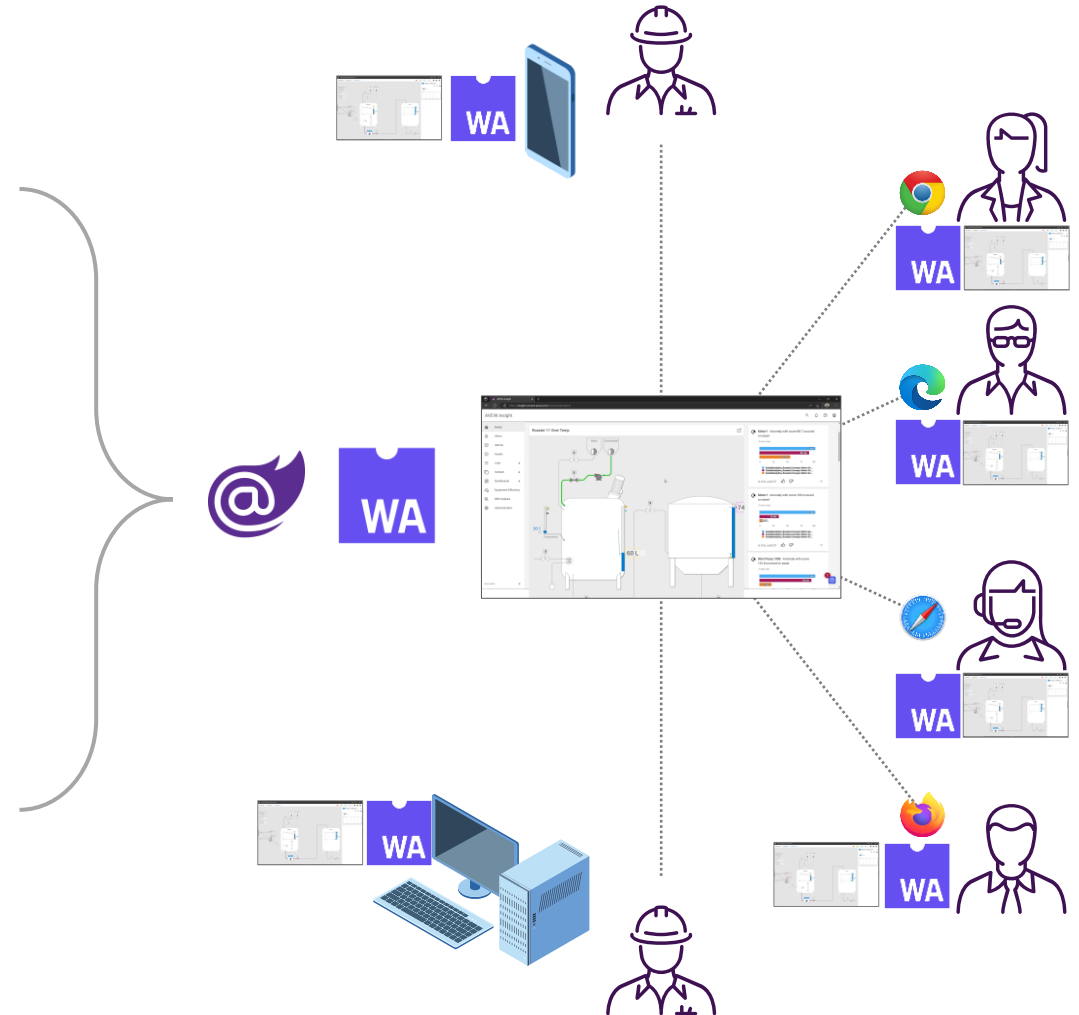
One rendering mechanism



Same code across all devices and form factors means a single graphics features set, pixel-perfect consistency

[Optional] One commercial model

Unlimited access from any device and location with user based Operations Control licensing



Maintain reusability when converting Smart Symbols

Problem statements

- When converting legacy graphics to Industrial Graphics, all instances of Smart Symbols are converted to plain graphics elements, resulting in a loss of standardization and reusability.
- Re-establishing standardization and reusability can be very costly and time consuming, which makes adoption of Industrial Graphics prohibitively expensive for customers with older applications that predates Industrial Graphics.

Solution

- Convert all Smart Symbol templates to Industrial Graphics at the beginning of conversion, then replace all occurrences with the new reusable Industrial Graphic.

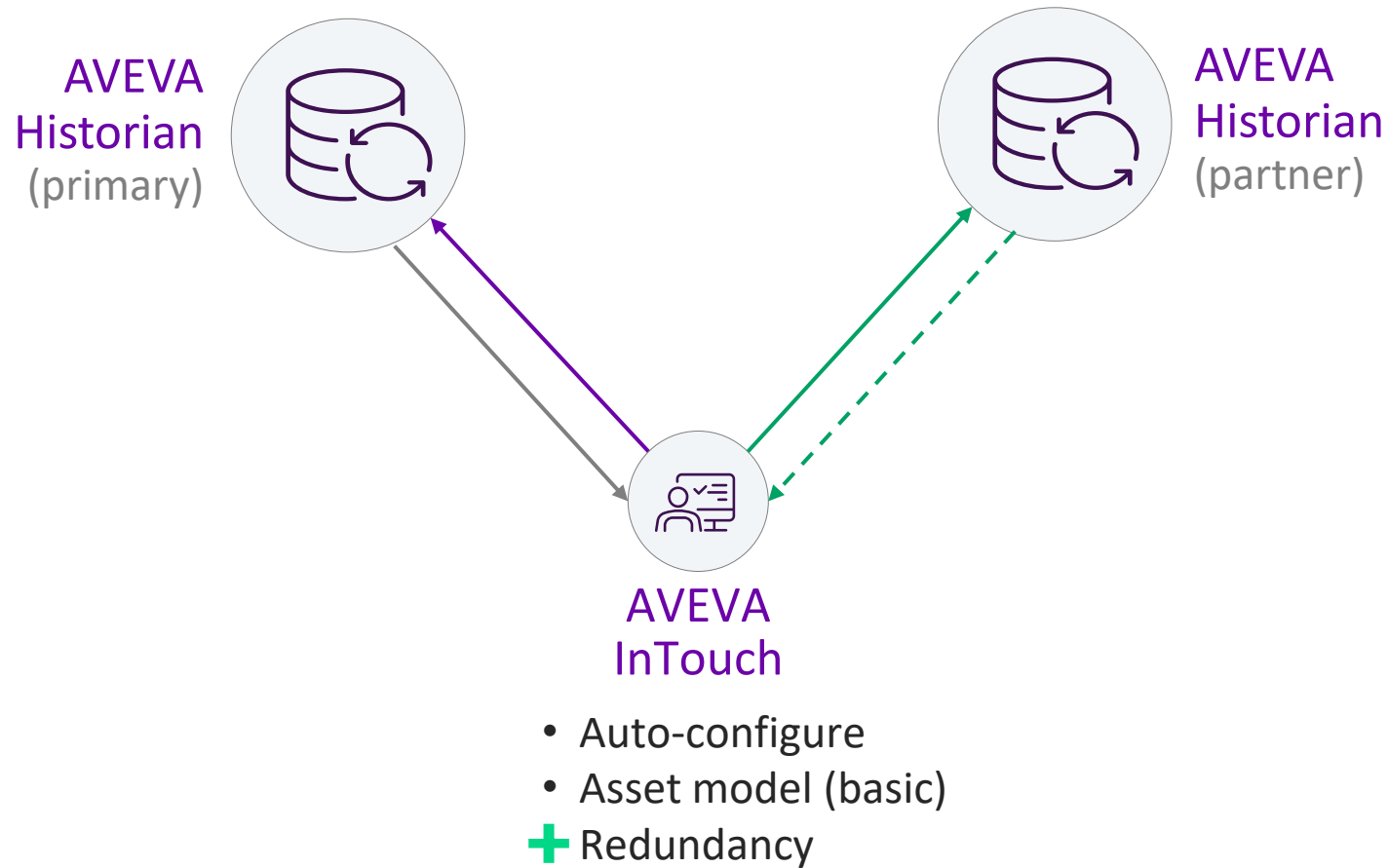
Values

- Standardization and reusability is preserved when converting from Smart Symbols to the richer capabilities of Industrial Graphics.
- Significant obstacle removed from the migration of legacy graphics to Industrial Graphics and all what that means in terms of adopting the Operations Management Interface and CONNECT Visualization Services



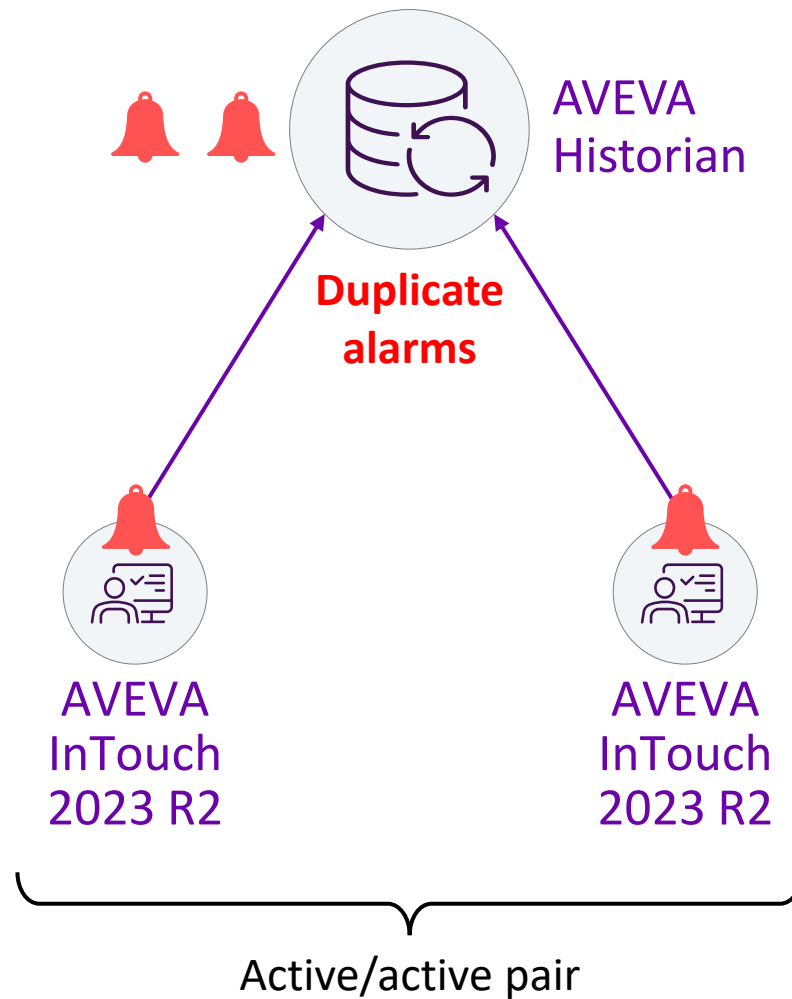
Redundancy enhancements

Support for dual Historians, to ensure availability of trending and reporting



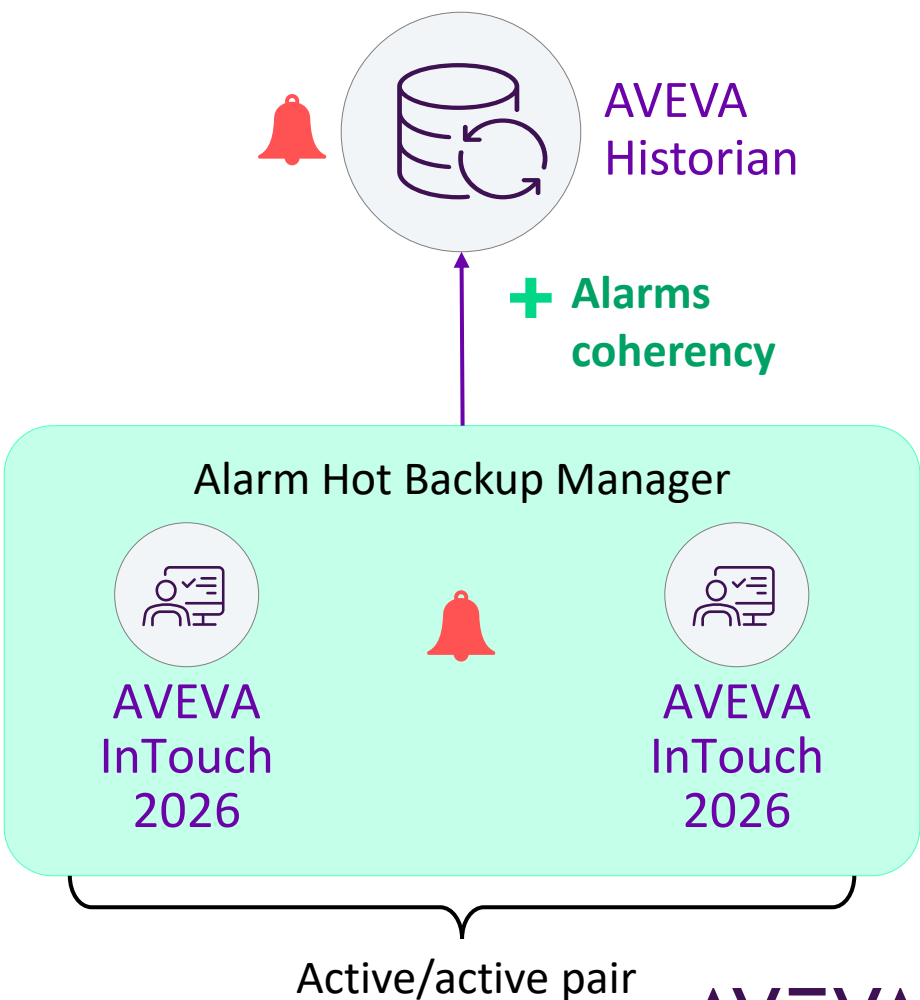
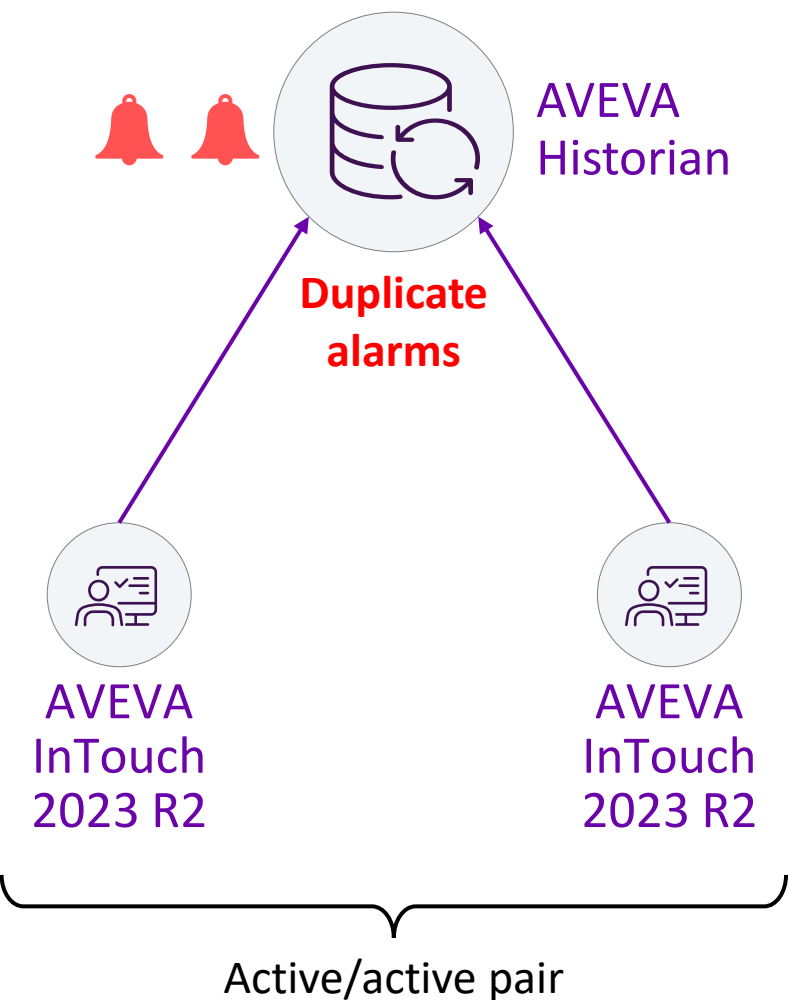
Redundancy enhancements

Avoiding duplicate alarm records with active-active pair

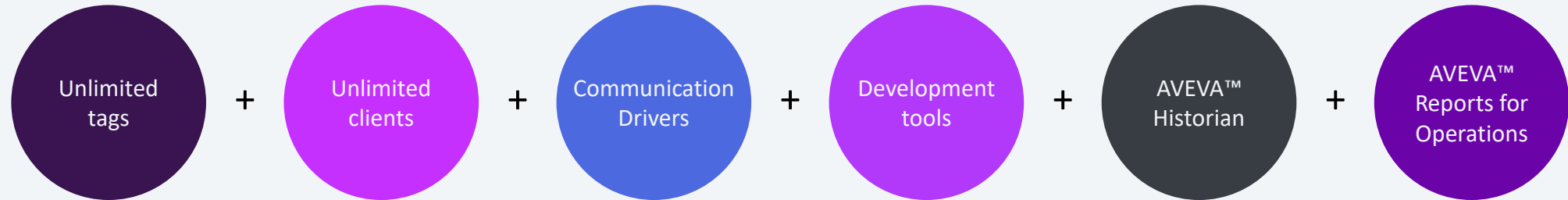


Redundancy enhancements

Avoiding duplicate alarm records with active-active pair



AVEVA™ InTouch Unlimited



InTouch *Unlimited* Standard Perpetual license

Build efficient HMIs, communicate with automation devices and controllers, and log historical process data as well as alarms and events

\$12,360

InTouch *Unlimited* Professional Perpetual license

Scale up to data-intensive applications and manage multi-node deployment. Create and share self-service real-time dashboards. Expose application data through OPC UA Server.

\$20,600

Operations Control *Starter* Subscription

Pay-as-you-go commercial model.
Successor to InTouch Unlimited Premier.
Includes same feature set as Professional

- + Unlimited Historian
- + Redundancy included
- + 200 streams in **CONNECT Data Services**
- + 5 users in **CONNECT Visualization Services**

Contact distributor

Features	AVEVA™ Operations Control (subscription only)	AVEVA™ Operations Control <i>Starter</i> (subscription only)	AVEVA™ InTouch Unlimited Professional (\$20,600)	AVEVA™ InTouch Unlimited Standard (\$12,360)	AVEVA™ InTouch Workstation 1k (\$1,850)
Number of tags	Unlimited	Unlimited	Unlimited	Unlimited	1,000
Number of web clients	Unlimited	Unlimited	Unlimited	Unlimited	1
Number of RDS clients	Unlimited	Unlimited	Unlimited	1	1
Historian Server tags	Unlimited	Unlimited	5,000 tags	500 tags	n/a
Licensed nodes	Unlimited	2	1**	1**	1**
Communication drivers	Professional Edition	Professional Edition	Professional Edition	Standard Edition	Standard Edition
Reports for Operations	Included	Included	Included		
Vision AI Assistant	Included	Included			

SaaS entitlements

200 data streams
5 Visualization users
Integration Studio
Teamwork*

200 data streams
5 Visualization users

* Teamwork is available for multi-site subscriptions only

* License for backup node in a redundant pair at ½ price of primary



Questions?



Please wait for the microphone.
State your name and company.

Please remember to...

Navigate to this session in the
mobile app to complete the survey.

Visit us...

**Scalable HMI solutions with unlimited tags, IO, and
server installations**

Thank you!

Exciting, modern &
engaging experience

5 key zones: CONNECT, operate &
optimize, design & build, industrial
sustainability, experiential zone
(hands-on activities)

45+ sponsor and exhibitor booths

CONNECT ecosystem partner kiosk

AVEVA & Partner Showcase sessions

Lightning Zone sessions

Guided tours by industry

Game and leisure areas



INNOVATION
ZONE

Visit Us!

Stop by these booths in the innovation zone for demos and additional information:

Scalable HMI solutions with unlimited tags, IO, and server installations

AVEVA InTouch HMI feature demonstrations.

From Edge to Intelligence to Industry 4.0 with AVEVA Operations Control and Crosser

See how the latest MQTT communication drivers enables System Platform to populate Unified Namespaces with contextualized and normalized data

Powering IIoT Innovation with InTouch, System Platform, and CONNECT

Showcase of AVEVA Operations Control.



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ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

Learn more at www.aveva.com