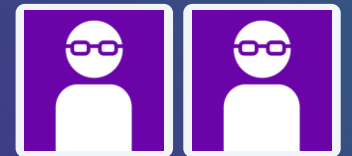


OCTOBER 26, 2023

What's coming in 2023 R2 for operations control - Supervisory

Nathan Slider – Product Manager, Operations Control - AVEVA

Ernst van Wyk – Product Manager, Operations Control - AVEVA



AVEVA



Ernst van Wyk

Product Manager, Operations Control

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Nathan Slider

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AVEVA

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AVEVA™ System Platform 2023 R2



System Platform 2023

System Platform 2023



System Platform Enterprise 2023

System Platform 2023

Unified Operations Centre

AVEVA™ Operations Control – Enterprise

*System Platform
Enterprise 2023*

OMI
Enterprise
web client

Q3

Q4

2023

Q1

Q2

Q3

Q4

2022

Q1

Q2

Q3

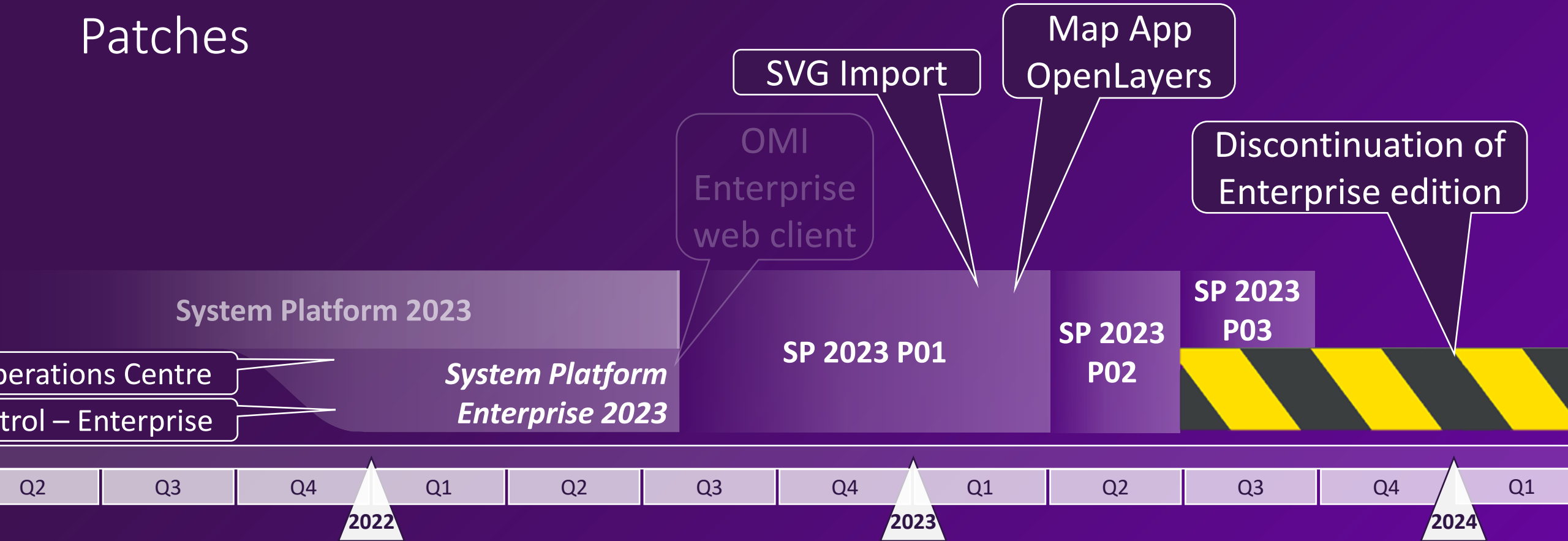
Q4

2023

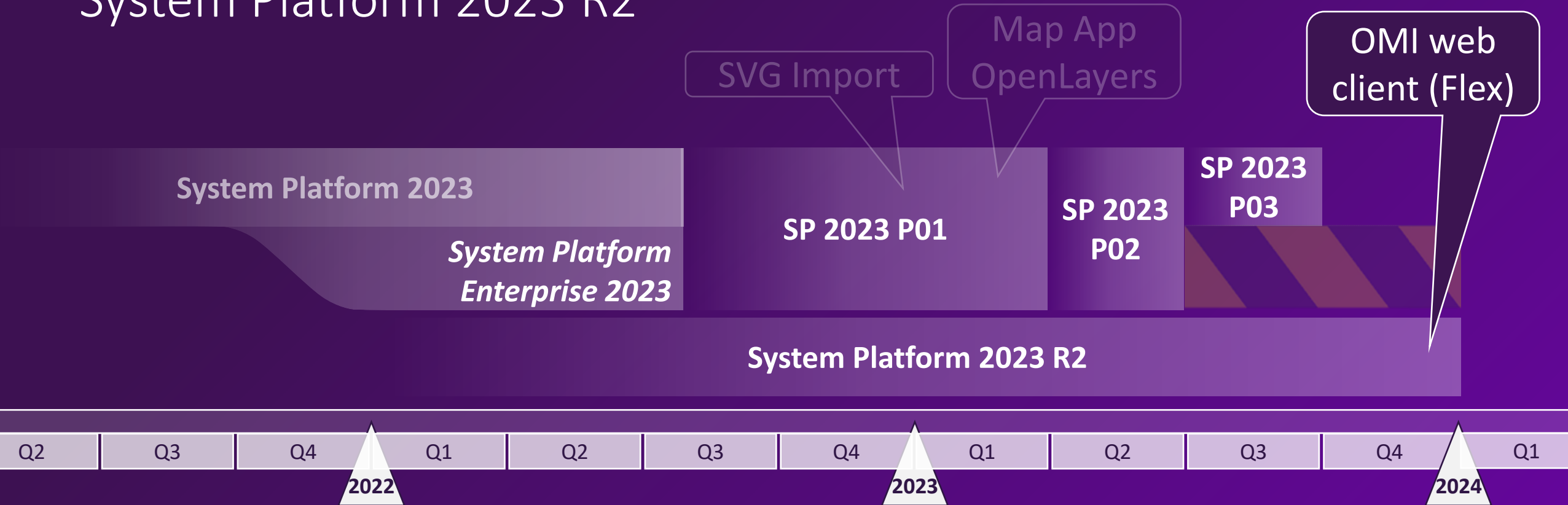
Q1

Q2

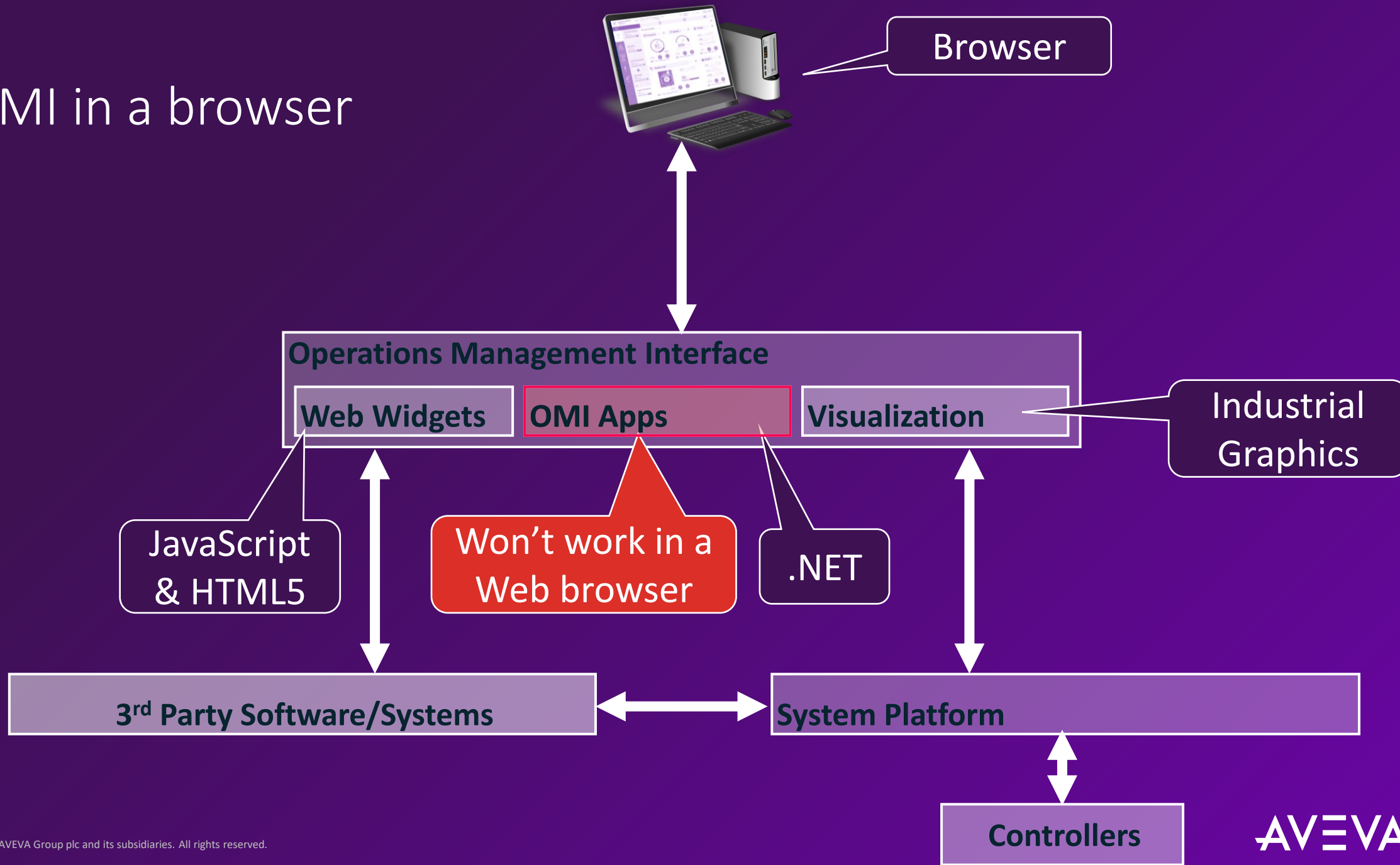
Patches



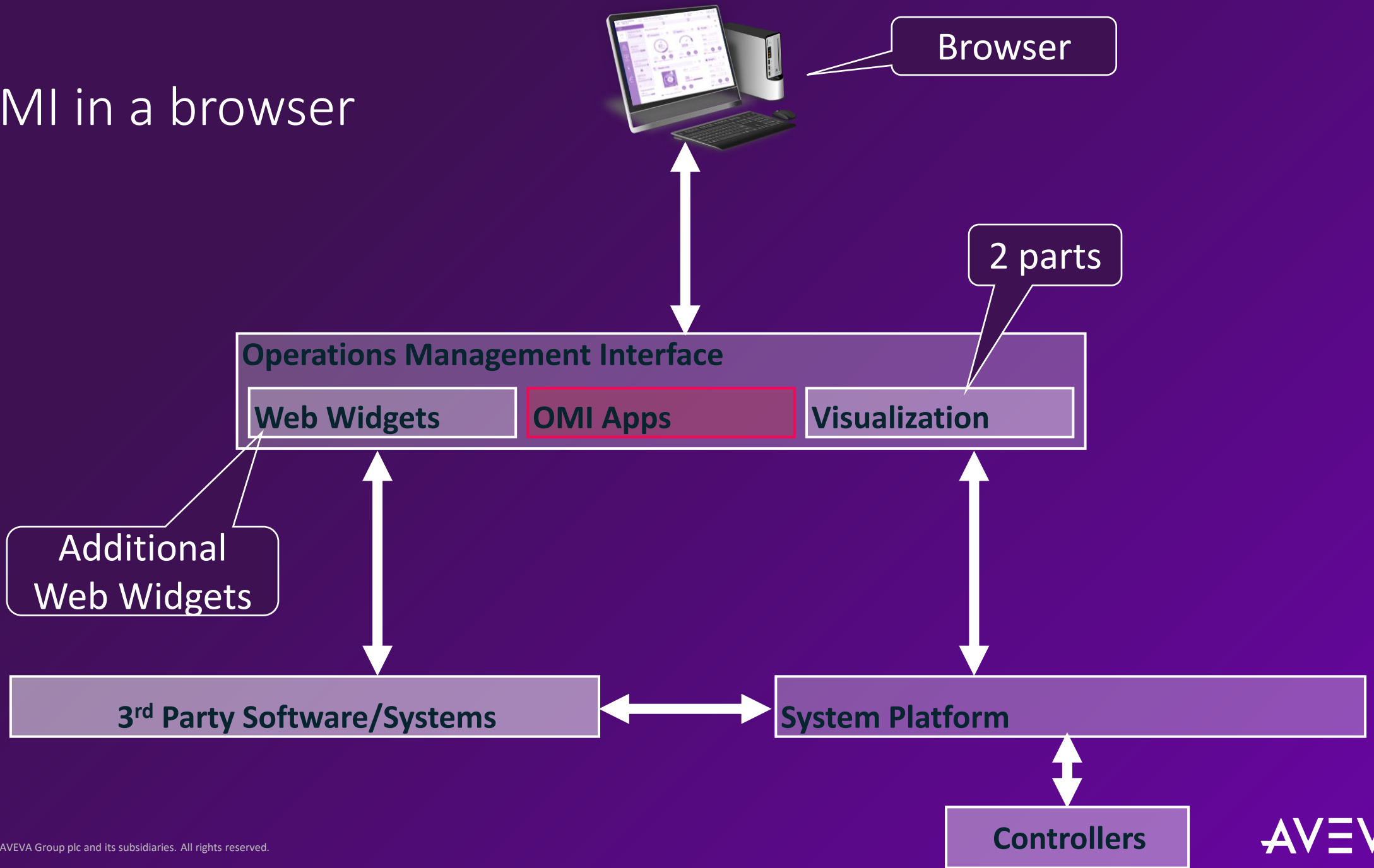
System Platform 2023 R2

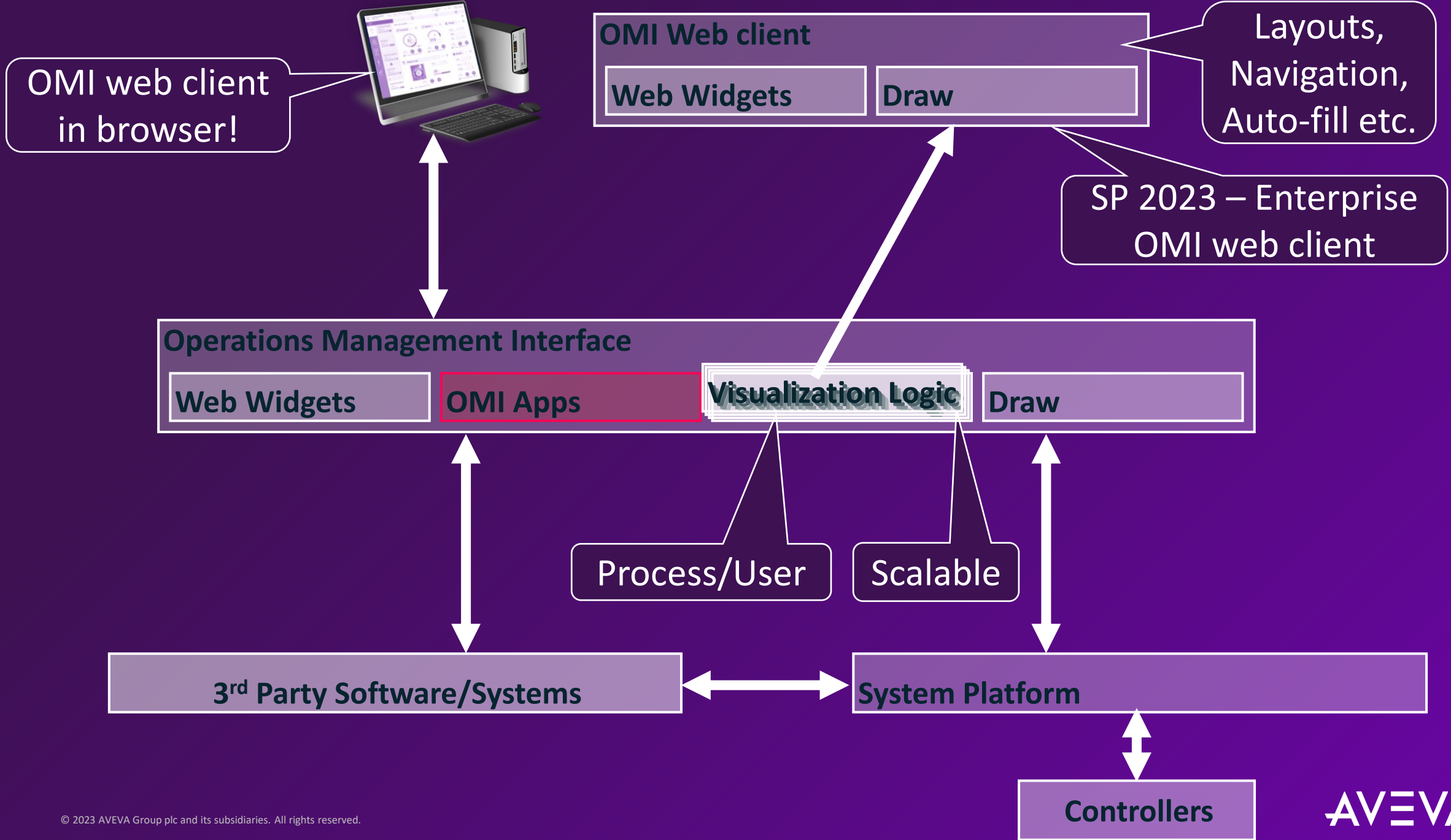


OMI in a browser



OMI in a browser





2023 R2



OMI Web client

Web Widgets

Visualization Logic

Draw

Operations Management Interface

Web Widgets

OMI Apps

Visualization Logic

Draw

3rd Party Software/Systems

System Platform

Controllers

AVEVA

2023 R2



OMI Web client

Web Widgets

OMI Apps

Visualization Logic

Draw

SP 2023 R2 –
Flex subscriptions

Operations Management Interface

Web Widgets

OMI Apps

Visualization Logic

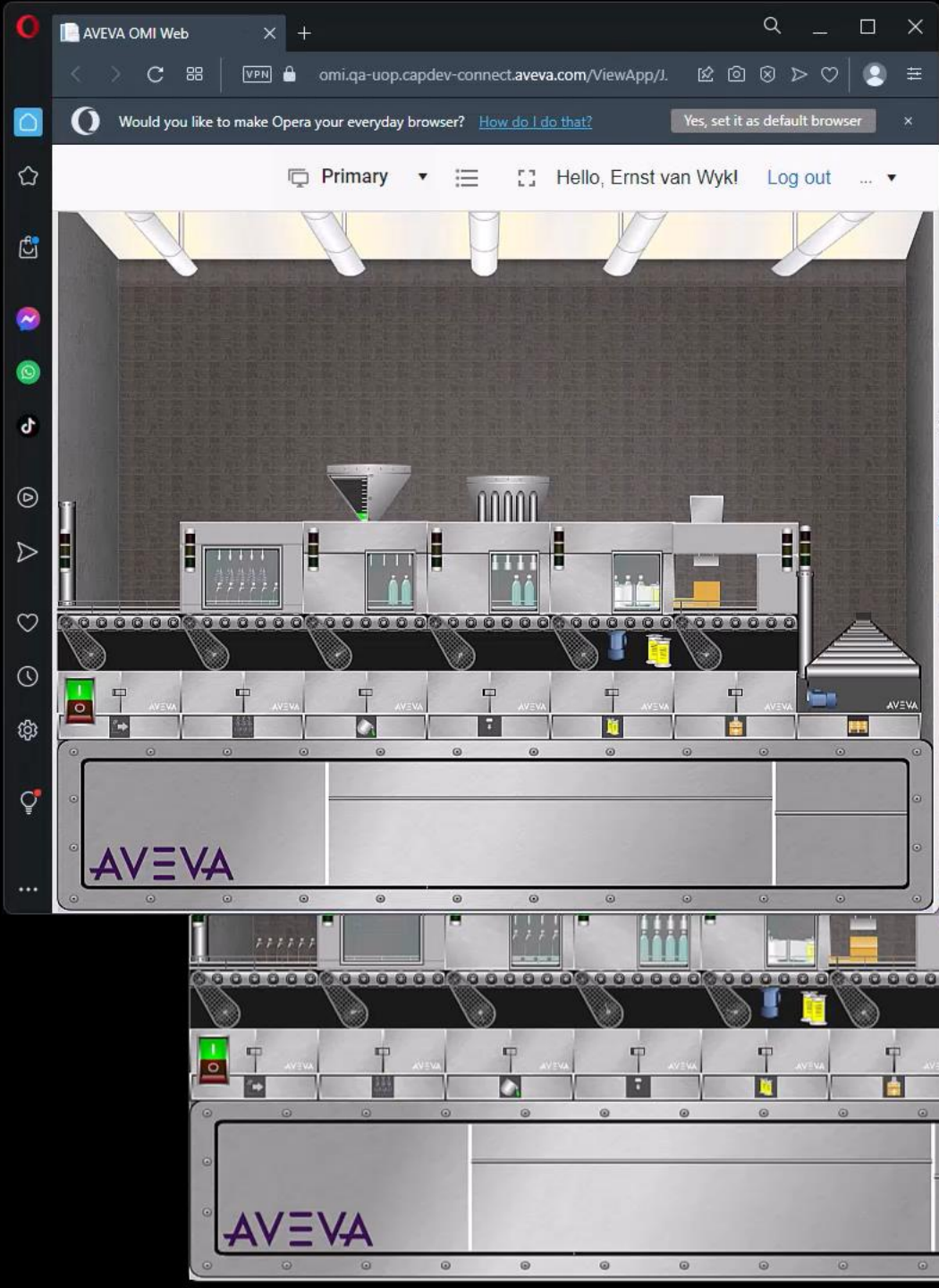
Draw

3rd Party Software/Systems

System Platform

Controllers

AVEVA



- Navigation
- Home
 - OMI_web_client
 - WonderCorp
 - EmbedContent

- Actions
- Auto-Fill Content: Current, up, then down
- Actions for Primary:
- Show: P_R2_Layout_Overv... From: OMI_web_client On: Primary
 - Show: AVEVA_Logo_Correct From: P_R2_Layout_Overvi... On: Pane1
 - Show: H...HamburgerButton From: P_R2_Layout_Overvi... On: Pane3
 - Show: NavBreadcrumbCon... From: P_R2_Layout_Overvi... On: Pane4
 - Show: Navi...NavTreeControl From: P_R2_Layout_Overvi... On: App_nav
 - Show: Title...TitleBarControl From: P_R2_Layout_Overvi... On: App_Title
 - Show: WW_App_b_f_h From: P_R2_Layout_Overvi... On: AppName
 - Show: WW_App_Function From: P_R2_Layout_Overvi... On: Function_pane
 - Show: WW_PersonalMenu From: P_R2_Layout_Overvi... On: App_Login
 - Show: .P_R2_NukeOverview From: OMI_web_client On: App_Overview

Screen Profile

P_R2_HD

Screens

Primary P_R2_Layout_Overvi...

Layout: P_R2_Layout_Overview

Function_pane

Empty

App_nav

App_Overview (default)

LAYOUT as CONTENT

WONDER_POWER.P_R2_NUKEOVERVIEW

History_playback

Empty1

App_Login

User Full Name

Log In (OS) Using... added by Citrix User

Settings for Macros in Navigation

Show Critical Alar... Show High Alar... Show Med Low Alar... Show Low Alar... Show Un-Acked Alar... Show Acked Func... Show Return to Normal Alar...

Filter Wide Areas

Show Filter

Properties

Navigation Item properties

Navigation

Title	Wonder Power
Reference	Model\Wonder_Power
Include Children	<input type="checkbox"/>
Auto-Fill Content	Current, up, then down

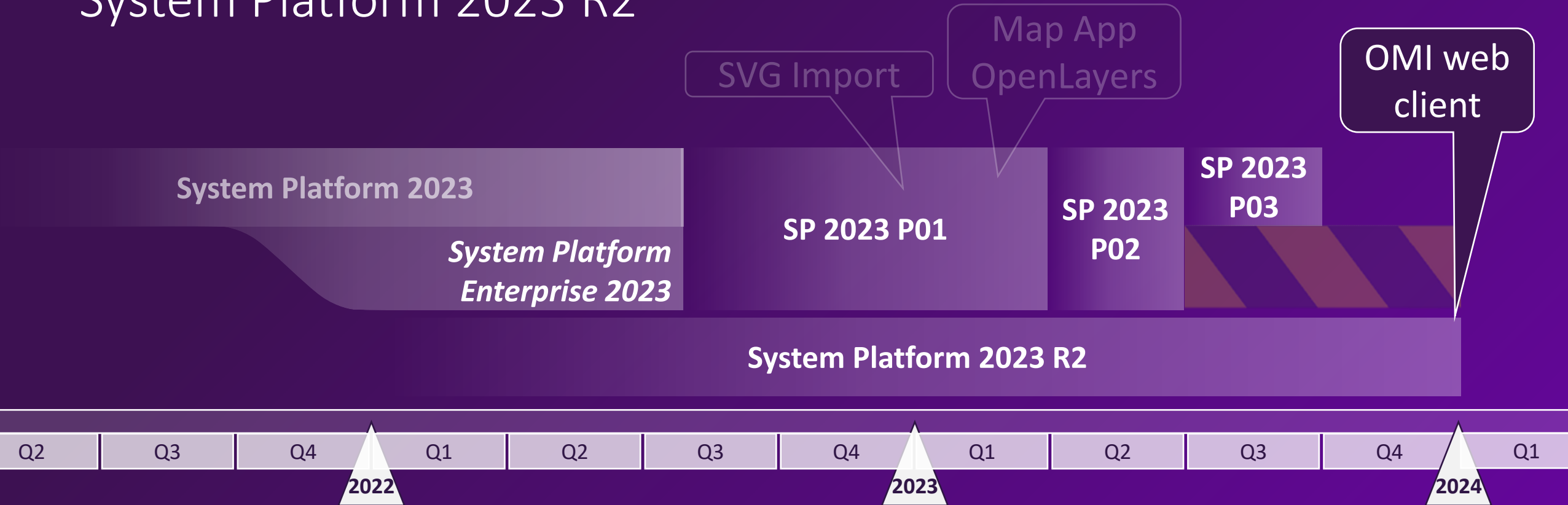
Security

Access Level	Not Configured
User Roles	Not Configured

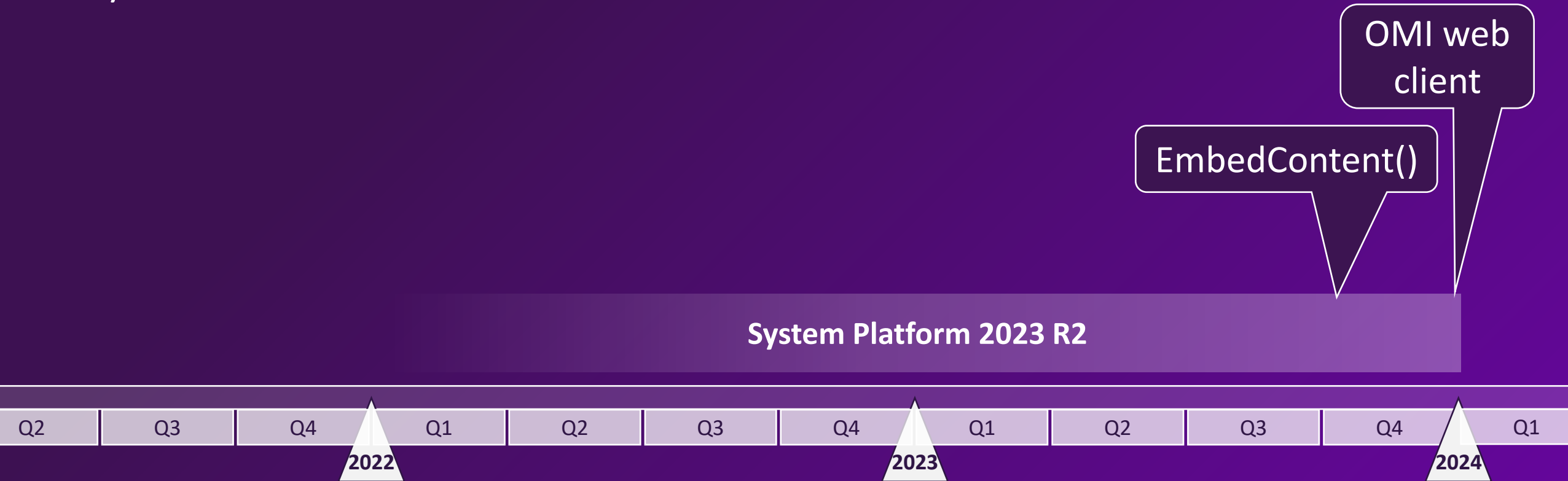
Title

This field is automatically populated when the Navigation item reference is updated. Changes to the Tag name and/or Alias in the IDE are not reflected here.

System Platform 2023 R2



System Platform 2023 R2

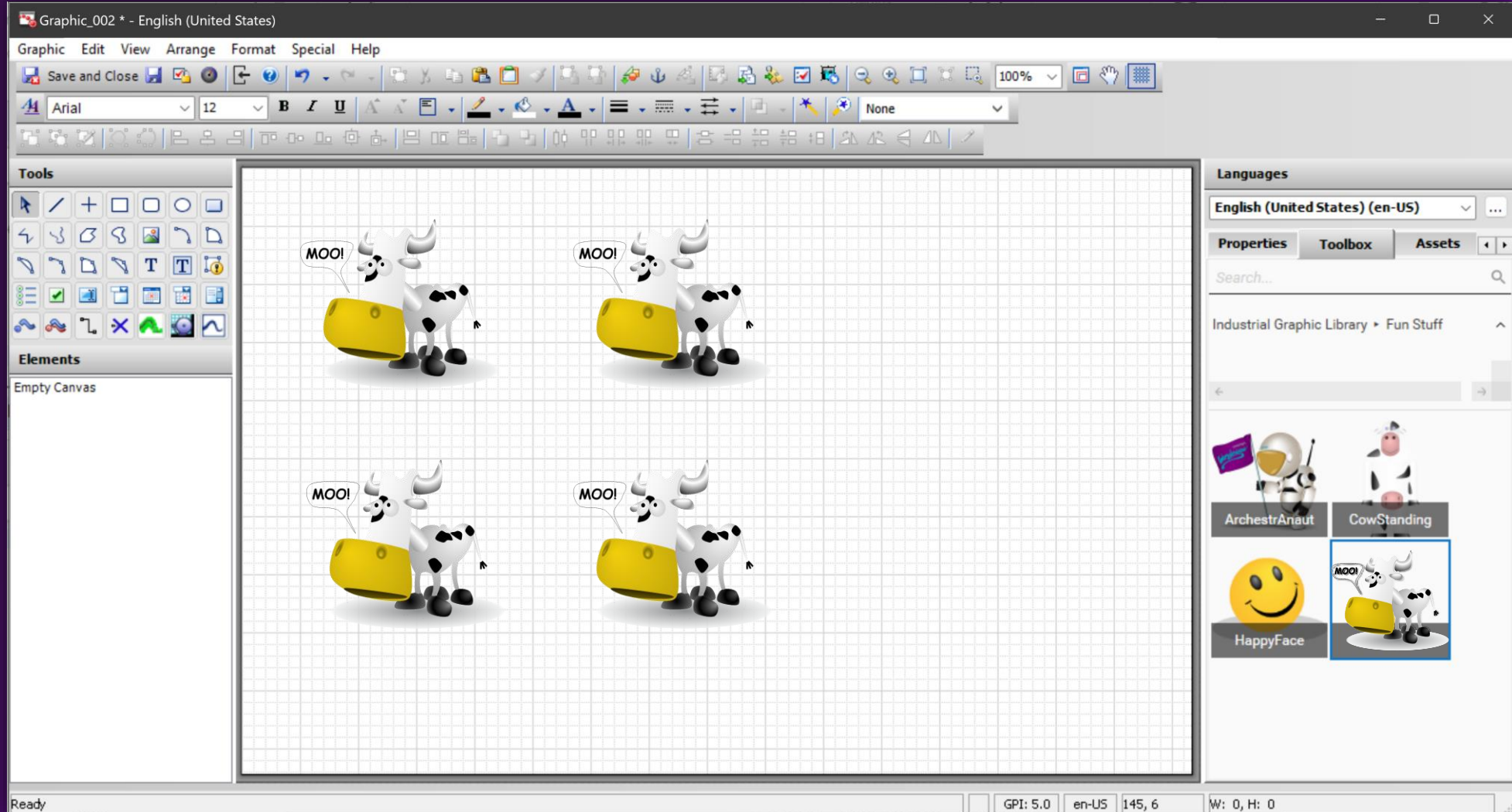


System Platform 2023 R2

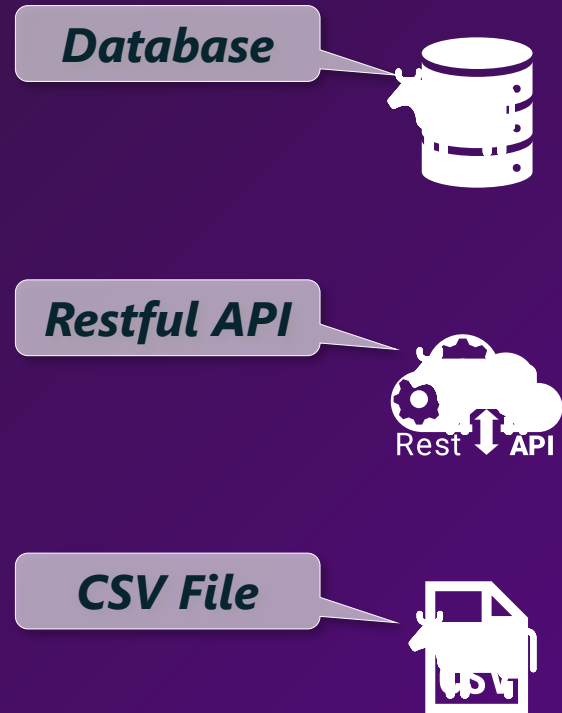
EmbedContent()

OMI web client

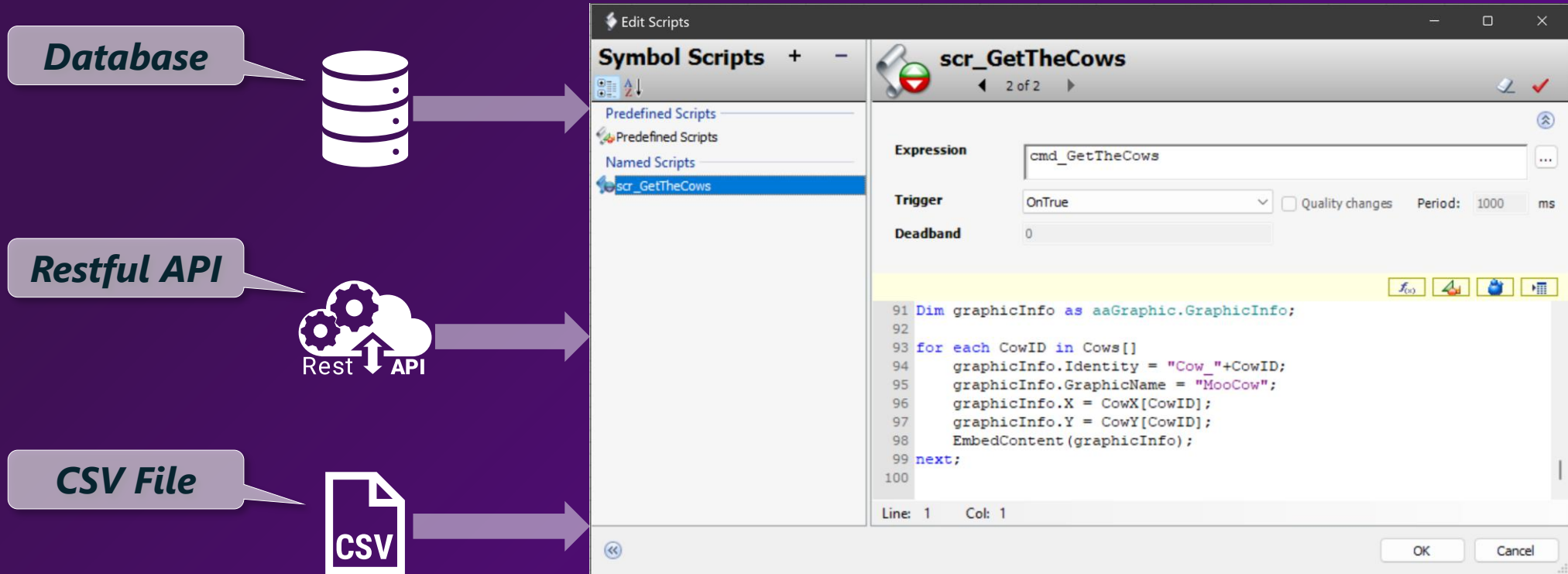
EmbedContent()



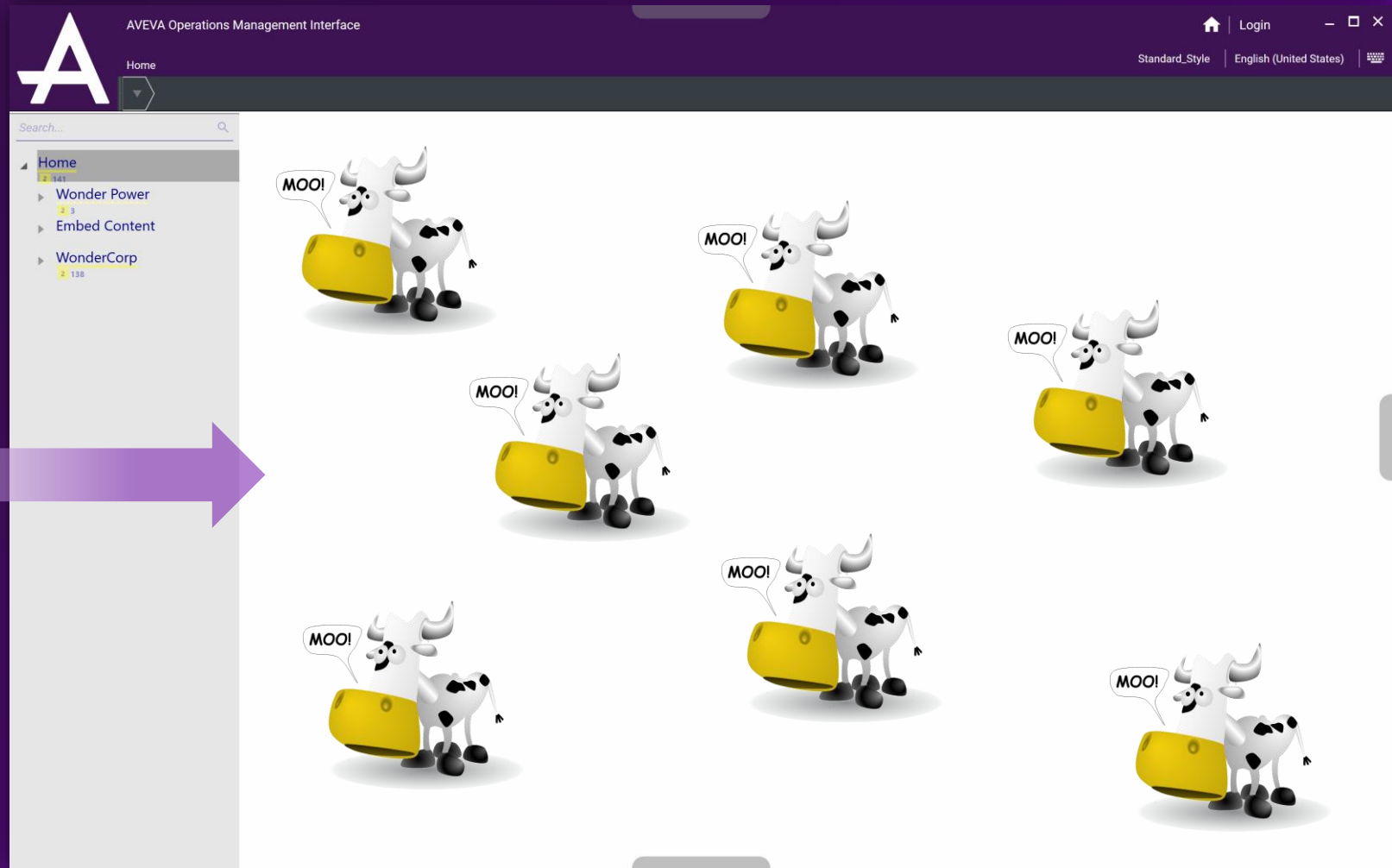
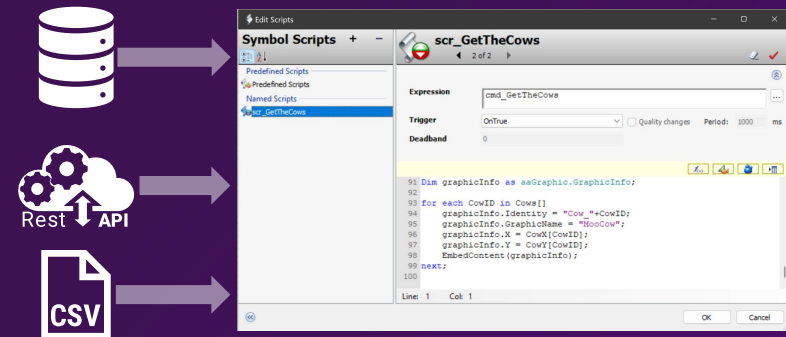
Transient data



Runtime Graphic embedding!



Runtime Graphic embedding!

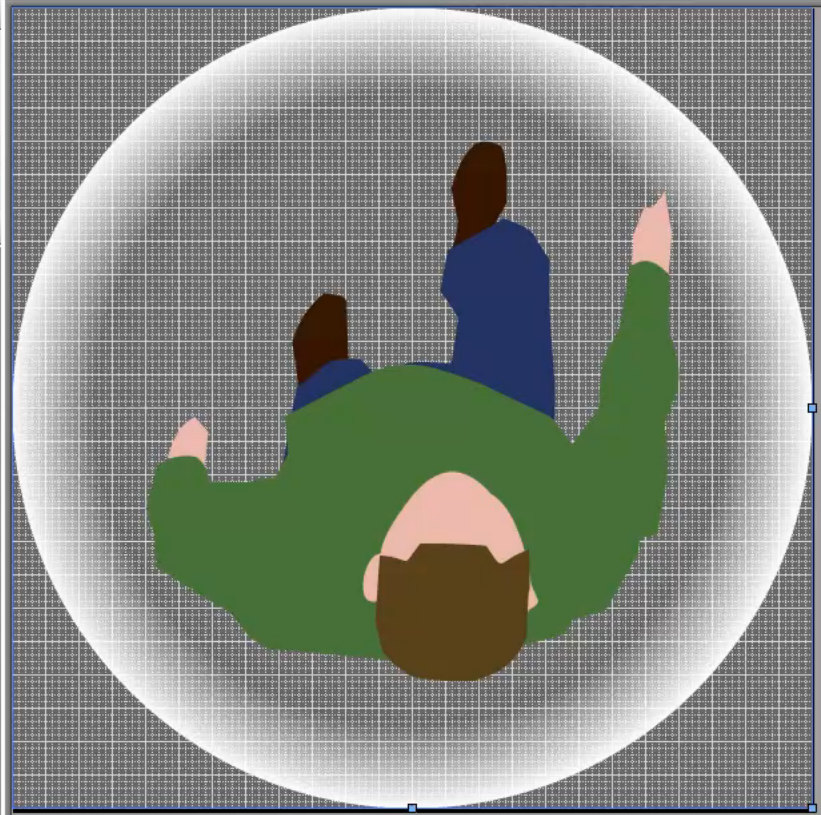


Save and Close 100% Arial 12 B I U None

Tools

Elements

Group1



Languages

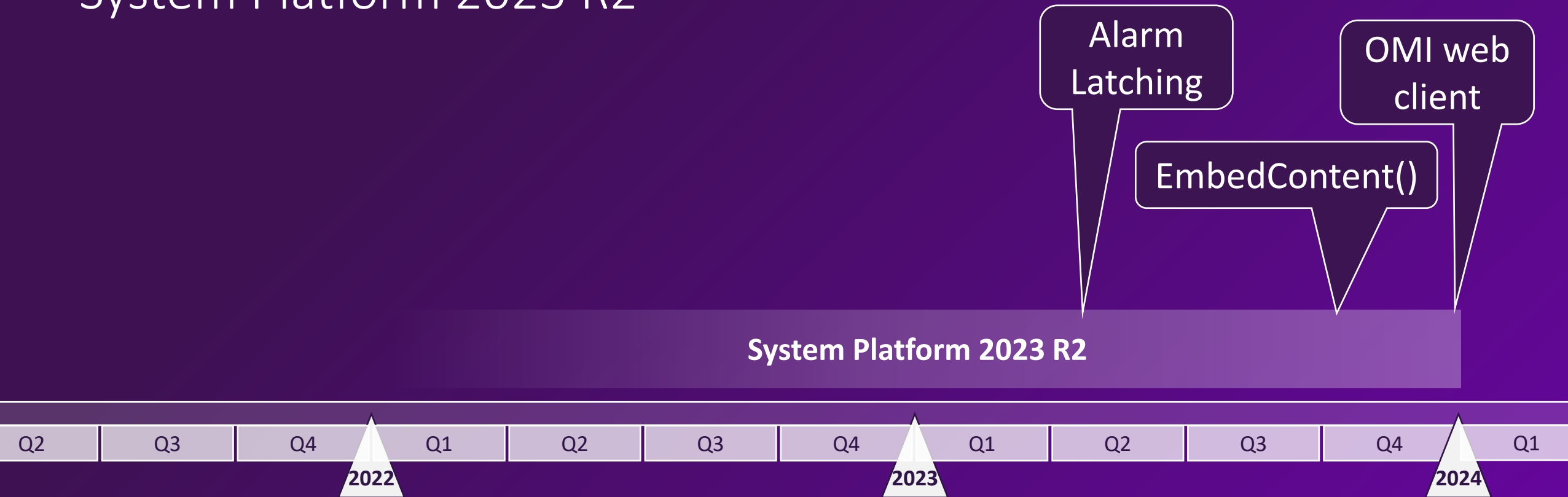
English (United States) (en-US)

Properties Toolbox Assets Templates

Graphic	
Description	
Size	Fixed
FixedWidth	600
FixedHeight	600
Appearance	
AnchorFixedTo	Relative
Locked	False
AbsoluteAnchor	300, 300
RelativeAnchor	0, 0
Smoothing	True
Runtime Behavior	
ContentType	None
FaceplateMode	False
MultiplePopupsAllowed	True
Scripts	(Collection)
ZoomPercent	100
ZoomCenterX	0
ZoomCenterY	0
Custom Properties	
CustomProperties	11 Properties
Direction	0
HairColour	Chestnut Brown
ShirtColour	Forest Green
ShoeColour	Chocolate Brown
TrousersColour	Navy Blue
SkinTone	Light Tan
Identity	
SelectedContent	Not me
PosX	0
PosY	0
PossibleFlash	False

ShoeColour
Chocolate Brown...

System Platform 2023 R2



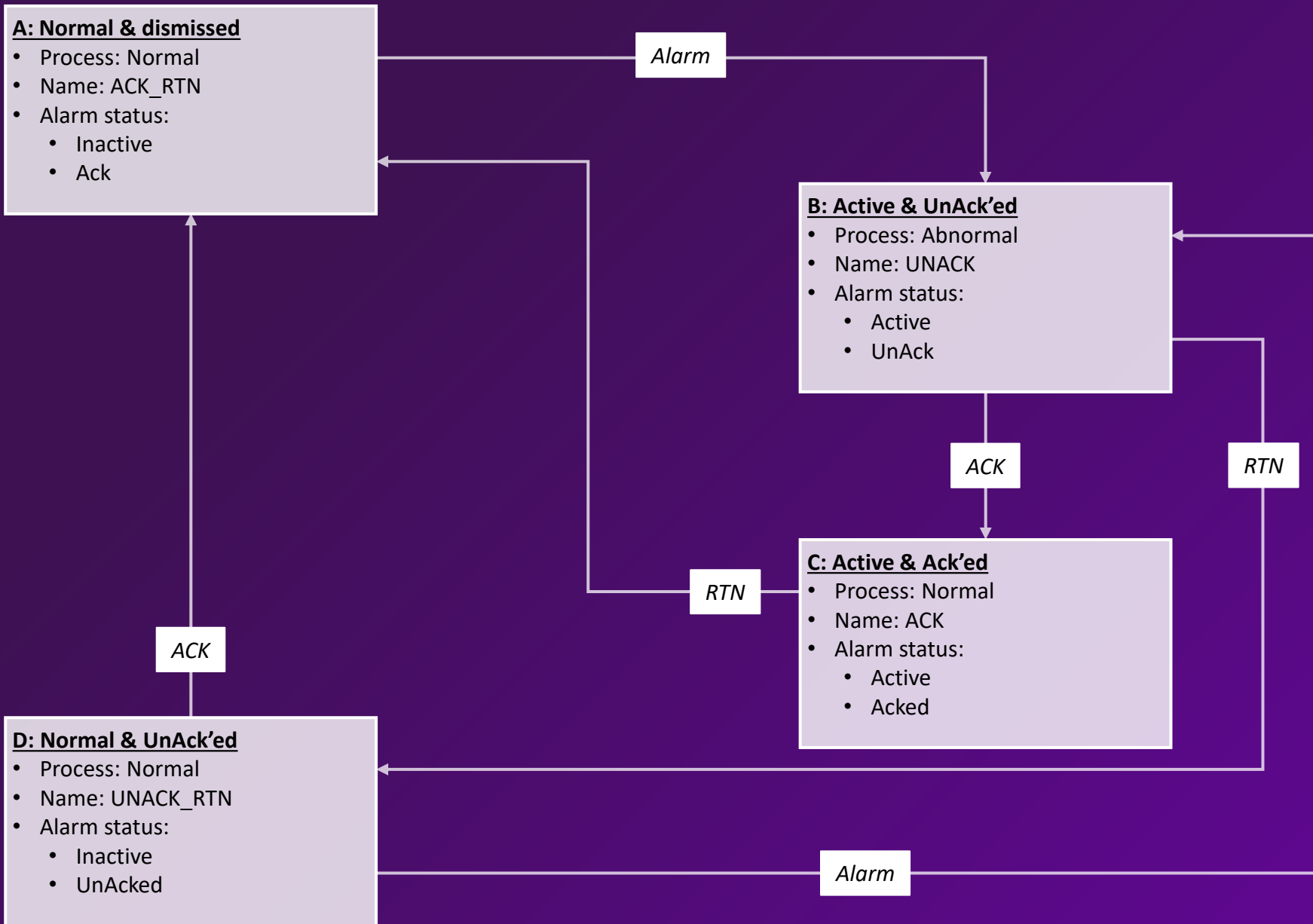
System Platform 2023 R2

Alarm Latching

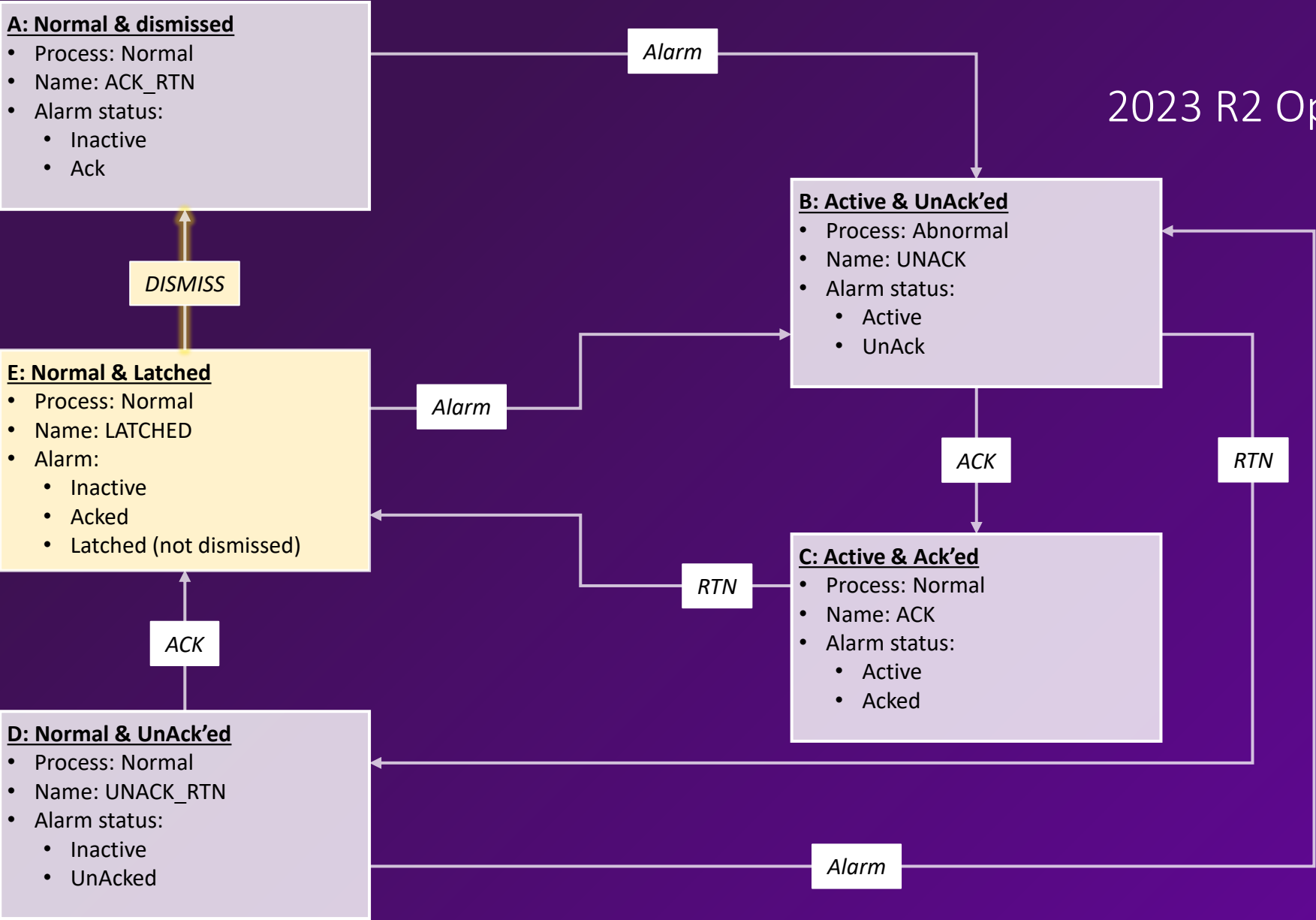
EmbedContent()

OMI web client

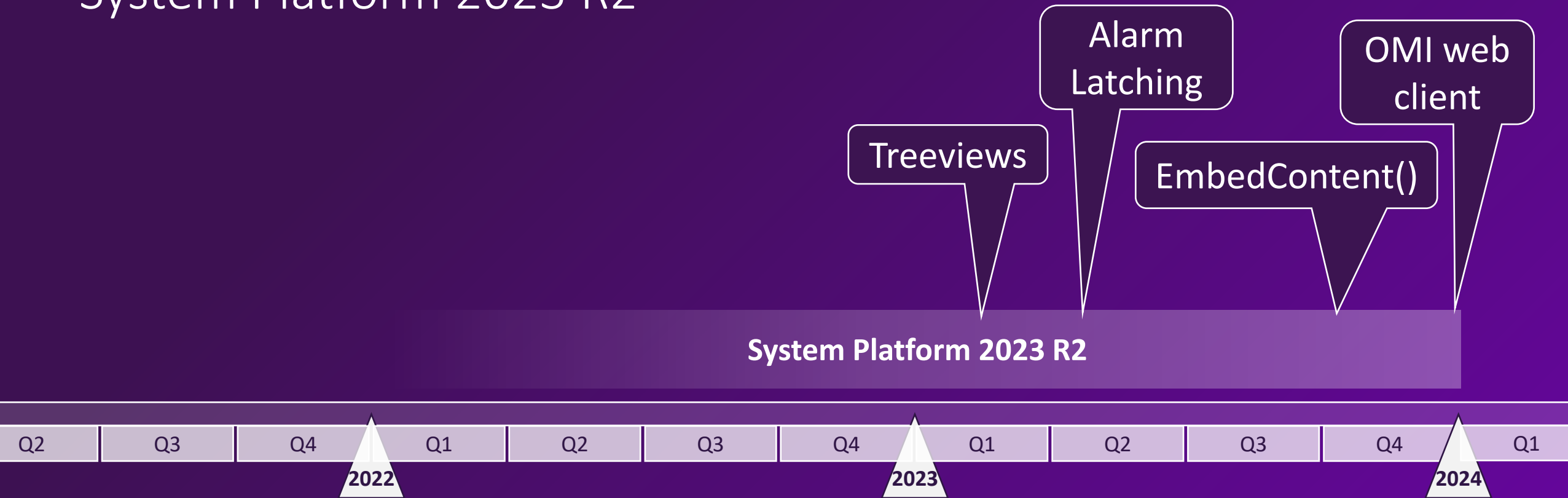
Pre-2023 R2



2023 R2 Optional LATCH state



System Platform 2023 R2



Sync Reset Status bar Alias

Model Templates IO Devices
 Deployment Visualization Mapping
 Derivation Operations Flex Licenses

View Options Windows

Templates

Search

Serenity

Templates Visualization

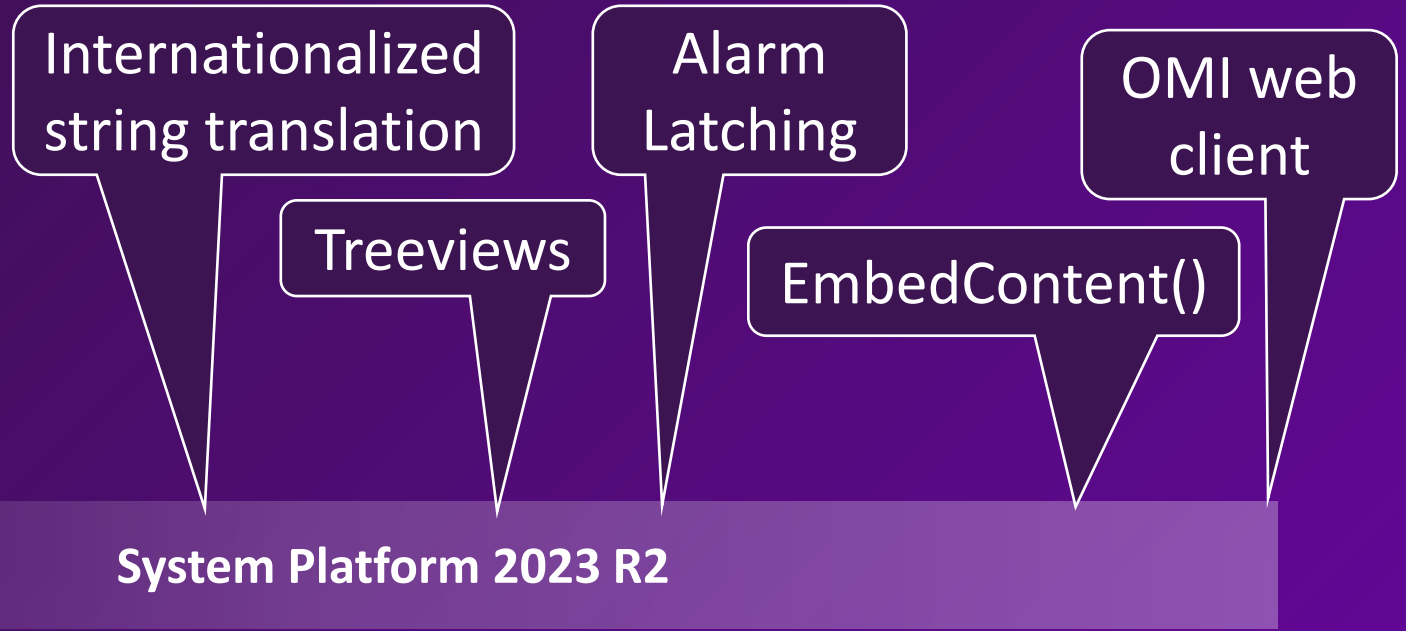
Model - Tagname

Search

Serenity

Model - Tagname Deployment Derivation

System Platform 2023 R2



Open

Edit: Rename, Duplicate, Properties..., Delete

Import: Tagname dictionary

Export: Selected

Create: Instance, Screen, Namespace, Template, Layout, External content, Folder, Graphics

Deploy: Deploy..., Undeploy...

Check-in: Check-in

Save: Save, Save All, Validate

Find: Find...

Assign: Assign To..., Unassign, Set as default

Runtime: Upload changes, Object Viewer

Templates

Search

- Serenity

Model - Alias

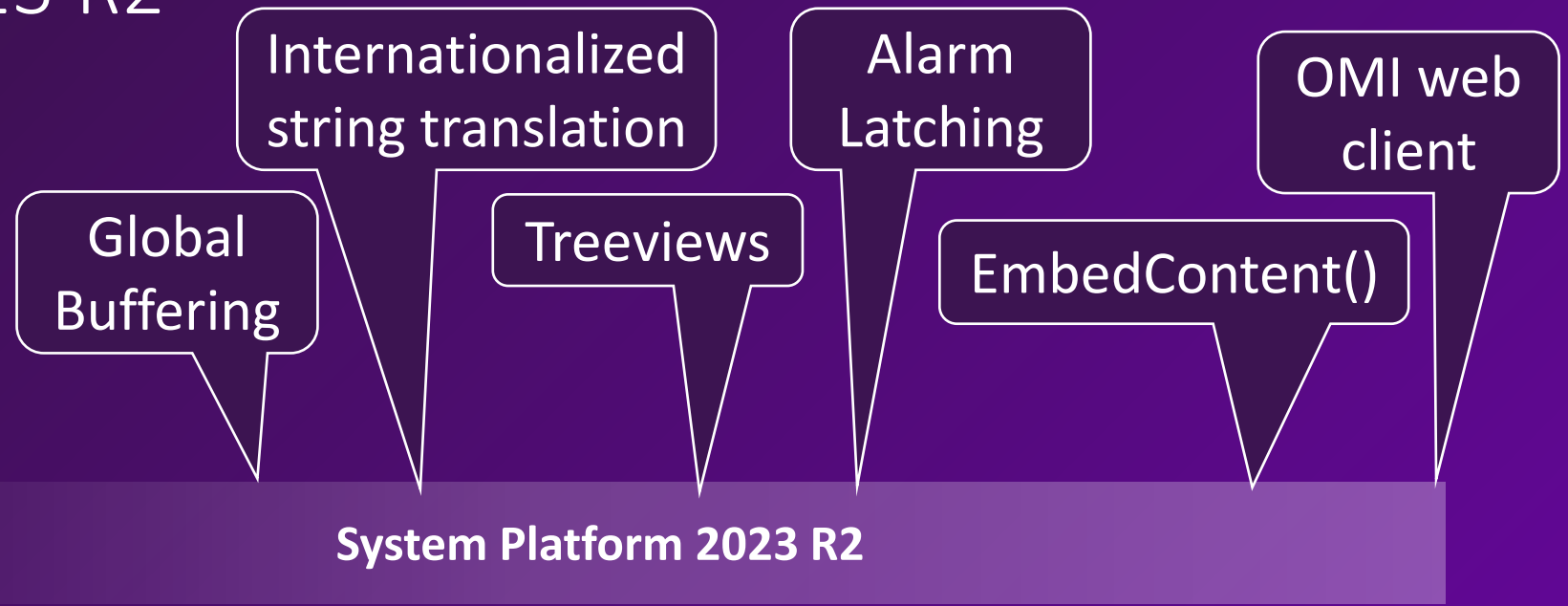
Search

- Serenity
 - Unassigned Area
 - Enterprise
 - Wonder Power
 - Wonder Water
 - WonderCorp

Model - Alias | Deployment | Derivation



System Platform 2023 R2



Open: Rename, Duplicate, Alias name..., Contained name...

Edit: Properties..., Delete

Import: Tagname dictionary

Export: Selected

Create: Instance, Screen, Namespace, Template, Layout, External content, Folder, Graphics

Deploy: Deploy..., Undeploy...

Check-in: Check-in

Save: Save, Save All, Validate

Find: Find...

Assign: Assign To..., Unassign, Set as default

Runtime: Upload changes, Object Viewer

Templates

Search

- Serenity

Templates Visualization

Model - Alias

Search

- Serenity
 - Unassigned Area
 - Enterprise
 - Wonder Power
 - Cooling Plant [Cooling]
 - Generator [Generation]
 - Nuclear Reactor [Reactor]
 - Control Rods
 - Core
 - Turbine Plant [Turbine_Plant]
 - Wonder Water
 - WonderCorp

Core *

Attributes Scripts Object Information

Inherited User extended Search Current Attributes (Ctrl + E)

Attributes

- CoolantFlowOk
- CoolantFlowRate
- CoolantPressure
- CyclesCount
- HoursOperated
- MaintenanceNotes
- OutputPower
- RadiationLevel
- RadiationLevelOk
- RodInsertionComplete
- RodPositionCount
- SCRAMInitiated

15 of 310 displayed. 1 selected.

Content

- R2_Faceplate_Layout [\$m_NukeBase]

3 of 3 displayed. 0 selected.

Name: xInfo.Cooling

Description:

Data type: InternationalizedString

Writeability: Writeable at config only

Initial value: Circulating water

System Platform 2023 R2

AVEVA Operations Control
connected experience

Global
Buffering

Internationalized
string translation

Treeviews

Alarm
Latching

EmbedContent()

OMI web
client

System Platform 2023 R2





Recycle Bin



AVEVA OMI Application Manager



Network Shortcuts



Unity Hub



Cisco Secure Endpoint

Q Search for apps, settings, and documents

All apps < Back

A

- Accessibility
- AVEVA New
- AVEVA Documentation New
- AVEVA Historian New
- AVEVA InTouch HMI New
- AVEVA System Platform New
- AVEVA OMI Application Manager New
- System Platform IDE New**

B

- Blend for Visual Studio 2019
- Blend for Visual Studio 2022 LTSC 17.6

C

Nausheen, Kareem ⏻

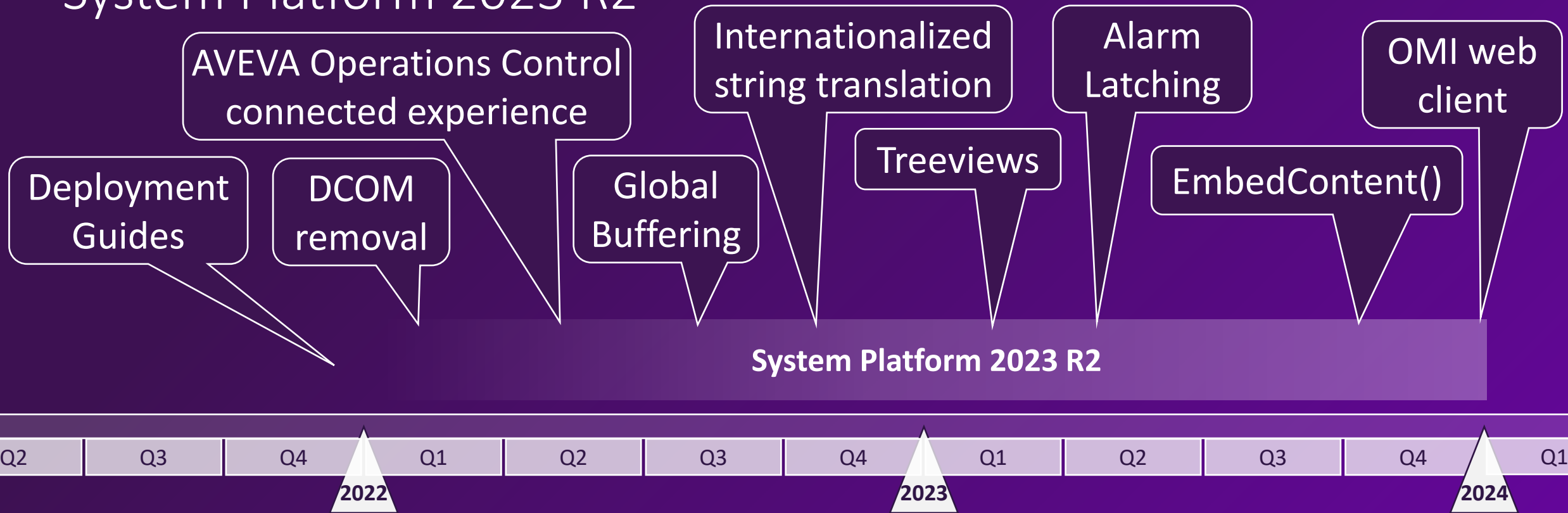


Search



6:07 PM 10/16/2023

System Platform 2023 R2



AVEVA™ Historian 2023 R2



AVEVA™ Historian 2023 R2 Highlights

- AVEVA™ Connect Single Sign On support
- Ad Hoc Expressions
 - New built-in functions
 - Use in Historian Client Trend
- Historian Client Web
 - Flexible alarm grid filtering
 - Open chart data in Excel using add-in
 - Migration help from classic Excel add-in
 - Significant improvements to "Modern Look"
 - Content included in Configuration export/import
- Multi-lingual applications
 - Applies to description, units, alias & other extended properties
 - Runtime language switching for Trend
- Connectivity
 - New web service for current values from Historian (using PCS "iData")
 - New network communications between Historian components (using gRPC) with backward compatibility

Major Investment Themes

Browser-based, Self-service Access

Integrated Alarm History

Cybersecurity

Flexible Topologies

SVR22

Alarms 10/24/2022, 5:56:50 AM - 10/24/2022, 6:56:50 AM

1 - 129 of 129 < >

Time ↑		In Alarm	Condition			Tag	Asset	Parent	Value	Limit	Unacknowledged
10/24/2022, 6:56:17 AM		00:00:15	▼ ROC Low			R22.Temp	R22	Line2	-0.4707977	0.2	00:00:33
10/24/2022, 6:55:50 AM		00:00:21	▼ ROC Low			R22.Temp	R22	Line2	-0.2294781	0.2	00:01:00
10/24/2022, 6:55:46 AM		00:00:05	▼ ROC Low			R21.Temp	R21	Line1	-0.2154283	0.2	00:01:04
10/24/2022, 6:55:14 AM		00:00:05	▼ ROC Low			M21.Temp	M21	Line1	-0.2081937	0.2	00:00:15
10/24/2022, 6:54:32 AM		00:00:04	▼ ROC Low			M22.Temp	M22	Line2	-0.2219242	0.2	00:02:12
10/24/2022, 6:53:49 AM		00:00:15	▲ High High			M22.Agitator	M22	Line2	184.098422	184	00:00:48
10/24/2022, 6:53:44 AM		00:00:36	▲ High			M22.Agitator	M22	Line2	182.115466	180	00:00:51
10/24/2022, 6:52:55 AM		00:00:01	▲ High			M22.Level	M22	Line2	151.166411	151	00:00:53
10/24/2022, 6:52:38 AM		00:00:09	▲ High			R22.Agitator	R22	Line2	180.253051	180	00:01:39
10/24/2022, 6:52:26 AM		00:00:05	▼ ROC Low			M21.Temp	M21	Line1	-0.2110851	0.2	00:01:11
10/24/2022, 6:52:10 AM		00:00:24	▲ High			R22.Agitator	R22	Line2	180.819929	180	00:04:40
10/24/2022, 6:51:14 AM		00:00:09	▲ High			M21.Agitator	M21	Line1	180.448943	180	00:00:01
10/24/2022, 6:50:35 AM		00:00:03	▲ High			M21.Agitator	M21	Line1	180.458662	180	00:00:08
10/24/2022, 6:50:31 AM		00:00:37	▼ ROC Low			R21.Temp	R21	Line1	-0.3249589	0.2	00:00:45
10/24/2022, 6:50:10 AM		00:00:15	▼ ROC Low			M22.Temp	M22	Line2	-0.277603	0.2	00:01:29
10/24/2022, 6:49:53 AM		00:00:04	▲ High			M22.Level	M22	Line2	151.028817	151	00:01:03

○ — ○ — ○ — ○ — ○ — ○

7D 3D YESTERDAY TODAY LAST HOUR CUSTOM

Auto

- Move Up
- Scale Up
- Original

Single Tag Scale

Auto

- Move Up
- Scale Up
- Original
- Move Down
- Scale Down
- Set Scale

All Tags Scale

Highlight

- Previous
- Next
- Delete

Tag

Trend

- Stacked
- Single
- Scatter

Layout

Add Annotation

In Out

- Selection
- Select All

Zoom

Properties

Tag Picker

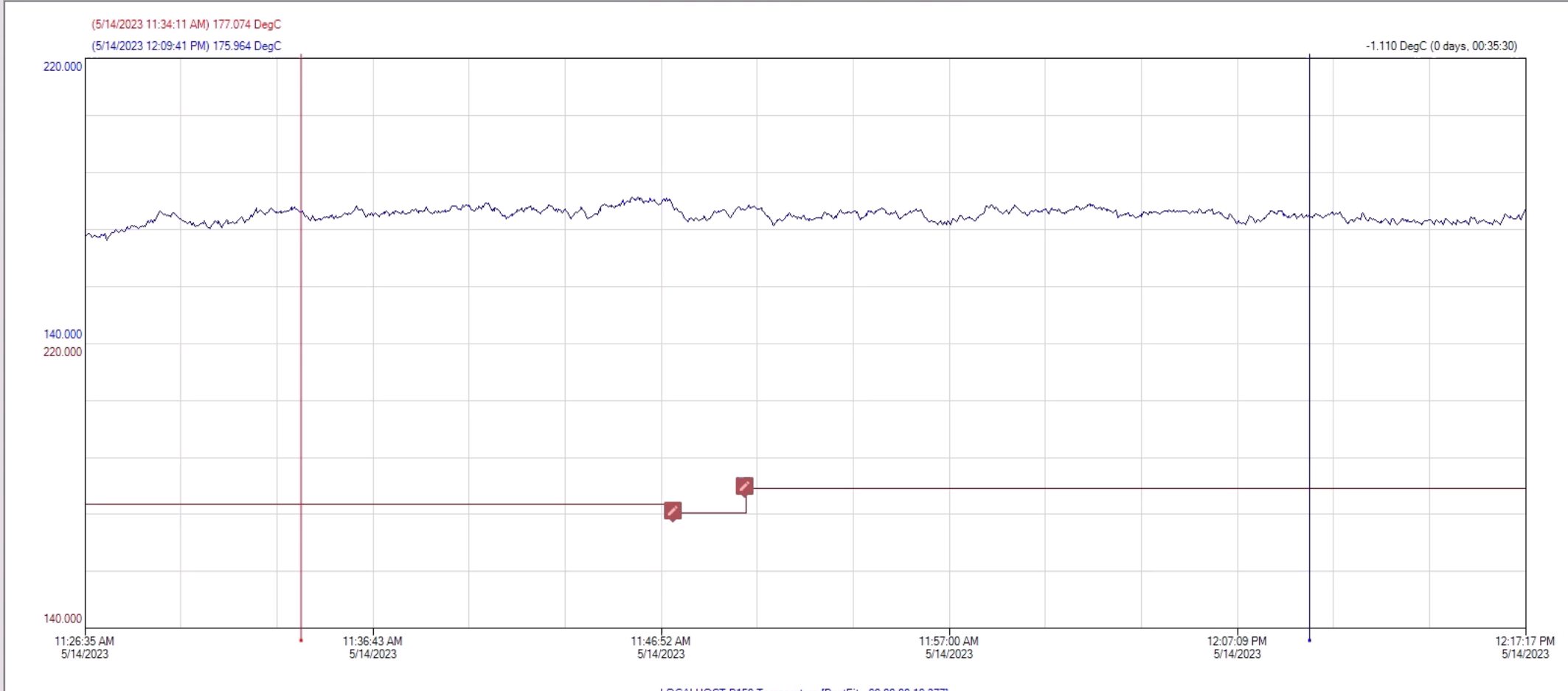
Servers

- LOCALHOST
 - Public Groups
 - All Analog Summary Tags
 - All Analog Tags
 - All Discrete Tags
 - All Event Tags
 - All State Summary Tags
 - All String Tags
 - InTouch Nodes
 - Replication Sources
 - System Status Tags
 - Wylie
 - Private Groups

Tags

Tag Name	Description
B100.Temperature	Combined flow/pressure se
B100.Temperature.SP	Target temperature
B150._AbnormalShift	Current anomaly applied
B150._AbnormalStep	Number of cycles remaining
B150._Correlation	Ratio of Pressure/Tempera.
B150._Move	Per cycle shift in temperatu
B150.Pressure	Combined flow/pressure se
B150.Temperature	Combined flow/pressure se
B150.Temperature.SP	Target temperature
B200._AbnormalShift	Current anomaly applied
B200._AbnormalStep	Number of cycles remaining
B200._Correlation	Ratio of Pressure/Tempera.
B200._Move	Per cycle shift in temperatu
B200.Pressure	Combined flow/pressure se
B200.Temperature	Combined flow/pressure se
B200.Temperature.SP	Target temperature
B250._AbnormalShift	Current anomaly applied
B250._AbnormalStep	Number of cycles remaining
B250._Correlation	Ratio of Pressure/Tempera.
B250._Move	Per cycle shift in temperatu
B250.Pressure	Comb... flow/pressure se
B250.Temperature	Combined flow/pressure se
B250.Temperature.SP	Target temperature
B300.Pressure	Combined flow/pressure se
B300.Temperature	Combined flow/pressure se
Backwash.Status	Enter attribute description
Blending.AlarmDSCntT...	The Area represents a plan
Blending.AlarmOnCnt...	The Area represents a plan

5/14/2023 11:26:35 AM [00] 00:50:42.565 5/14/2023 12:17:17 PM



Tag Name	Description	Number	Server	Display Units	Original Units	Color	Minimum	Maximum	IO Address	Time Offset	Source Tag	Source Server	Value at X1	Value at X2
<input checked="" type="checkbox"/> B150.Temperature	Combined flow/pressure...	1	LOCALH...	DegC	DegC	Blue	140.000	220.000	\\SVR22\InSQL_MDA...	0:00:00.000			177.074	175.964
<input checked="" type="checkbox"/> B150.Temperature.SP	Target temperature	2	LOCALH...	DegC	DegC	Red	140.000	220.000	\\SVR22\InSQL_MDA...	0:00:00.000			174.900	179.500

Ad Hoc Expressions

Arithmetic

+
-
/
*
^
%

Units

UOM
CASTUOM

Scalar

SIGN
ABS
SQRT
LOG
ROUND
TRUNCATE

AND
OR
NOT

IF
IFBAD
IFLONGER
IFSHORTER

Statistics

AVERAGE
AVERAGES
TOTAL
TOTALS
MIN
MAX

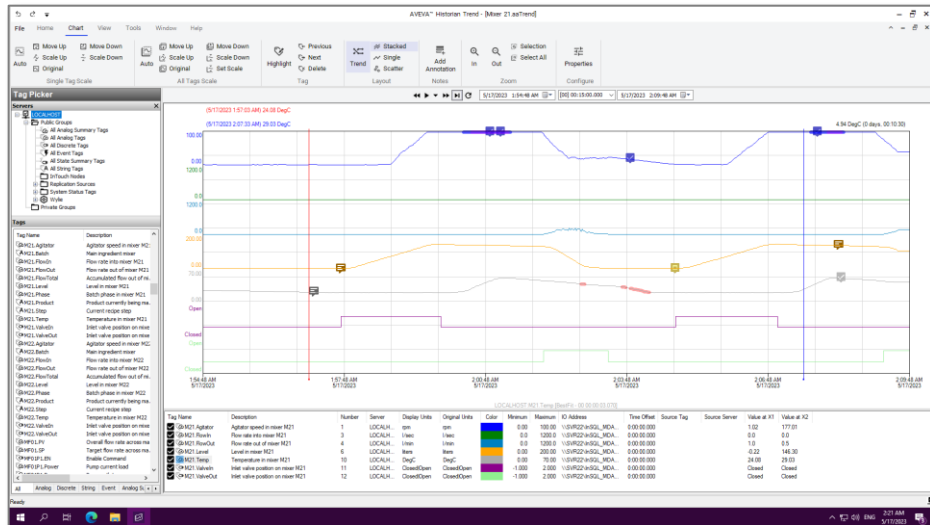
COUNT
COUNTALL

Time Series

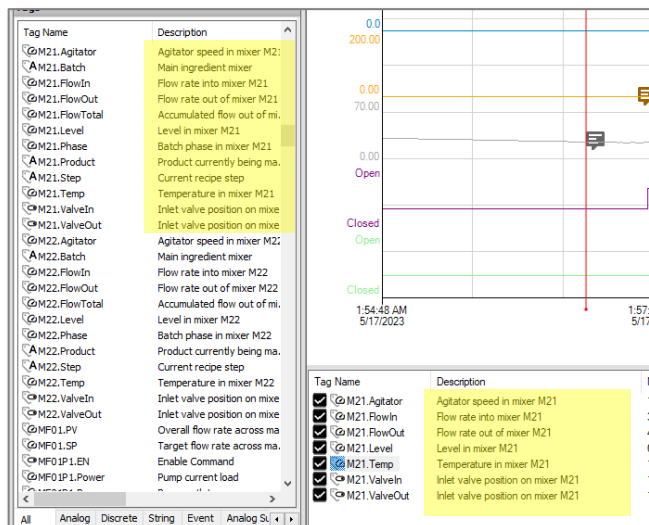
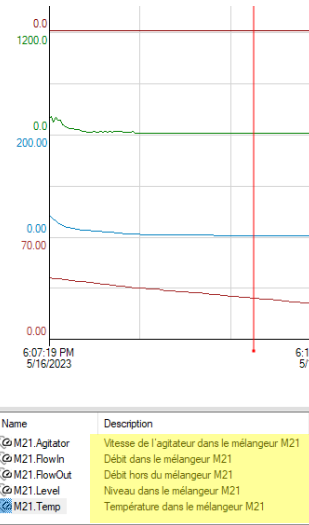
TIMESHIFT
DURATION
PREV
PREVGOOD

New in Historian 2023 R2

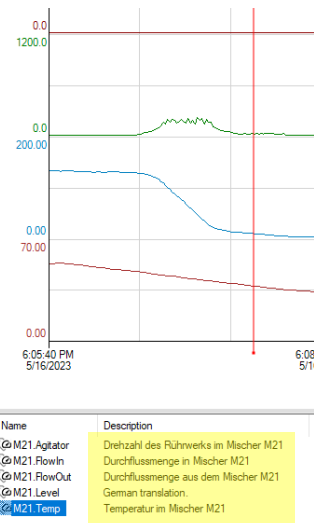
Multilingual Applications



Tag Name	Description
M21.Agitator	Vitesse de l'agitateur dans l...
M21.Batch	Mélangeur d'ingrédients pri...
M21.FlowIn	Débit dans le mélangeur M21
M21.FlowOut	Débit hors du mélangeur M21
M21.FlowTotal	Débit accumulé hors du méli...
M21.Level	Niveau dans le mélangeur ...
M21.Phase	Mélangeur de phase par lot...
M21.Product	Produit en cours de fabrica...
M21.Step	Étape de la recette actuelle...
M21.Temp	Température dans le mélan...
M21.ValveIn	Position de la soupape d'ad...
M21.ValveOut	Position de la soupape de s...
M22.Agitator	Agitator speed in mixer M22
M22.Batch	Main ingredient mixer
M22.FlowIn	Flow rate into mixer M22
M22.FlowOut	Flow rate out of mixer M22
M22.FlowTotal	Accumulated flow out of mi...
M22.Level	Level in mixer M22
M22.Phase	Batch phase in mixer M22
M22.Product	Product currently being ma...
M22.Step	Current recipe step
M22.Temp	Temperature in mixer M22
M22.ValveIn	Inlet valve position on mixe...
M22.ValveOut	Inlet valve position on mixe...
M20.LPV	Overall flow rate across ma...
M20.LSP	Target flow rate across ma...
M20.I1.EN	Enable Command
M20.I1.Power	Pump current load



Tag Name	Description
M21.Agitator	Drehzahl des Rührwerks in ...
M21.Batch	Hauptzutaten-Mixer
M21.FlowIn	Durchflussmenge in Mische...
M21.FlowOut	Durchflussmenge aus dem ...
M21.FlowTotal	Akkumulierter Durchfluss a...
M21.Level	German translation.
M21.Phase	Fullstand im Mischer M21
M21.Product	Chargenphase in Mischer ...
M21.Step	Aktueller Rezeptschritt
M21.Temp	Temperatur im Mischer M21
M21.ValveIn	Position des Einlassventils ...
M21.ValveOut	Position des Auslassventils ...
M22.Agitator	Agitator speed in mixer M22
M22.Batch	Main ingredient mixer
M22.FlowIn	Flow rate into mixer M22
M22.FlowOut	Flow rate out of mixer M22
M22.FlowTotal	Accumulated flow out of mi...
M22.Level	Level in mixer M22
M22.Phase	Batch phase in mixer M22
M22.Product	Product currently being ma...
M22.Step	Current recipe step
M22.Temp	Temperature in mixer M22
M22.ValveIn	Inlet valve position on mixe...
M22.ValveOut	Inlet valve position on mixe...
M20.LPV	Overall flow rate across ma...
M20.LSP	Target flow rate across ma...
M20.I1.EN	Enable Command
M20.I1.Power	Pump current load



AVEVA™ Plant SCADA 2023 R2



PLANT SCADA 2023R2

Major Enhancements

- Double Point Status Alarms
- New Installation Framework
- Kernel Now Works Running as a Service
- Equipment ID's
- Equipment Update Speeds
- New Online Help System
- Support for Microsoft Excel 64 Bit (Project DBF Add-On Utility)
- Minor Enhancements
- Cyber Security Improvements

Double Point Status Alarms

What are DPS Alarms?

Designed by the Power Industry

- Circuit breaker switch positions in substations
- Single Contact to signal a switch position
- Specific to Power Meter Data capture

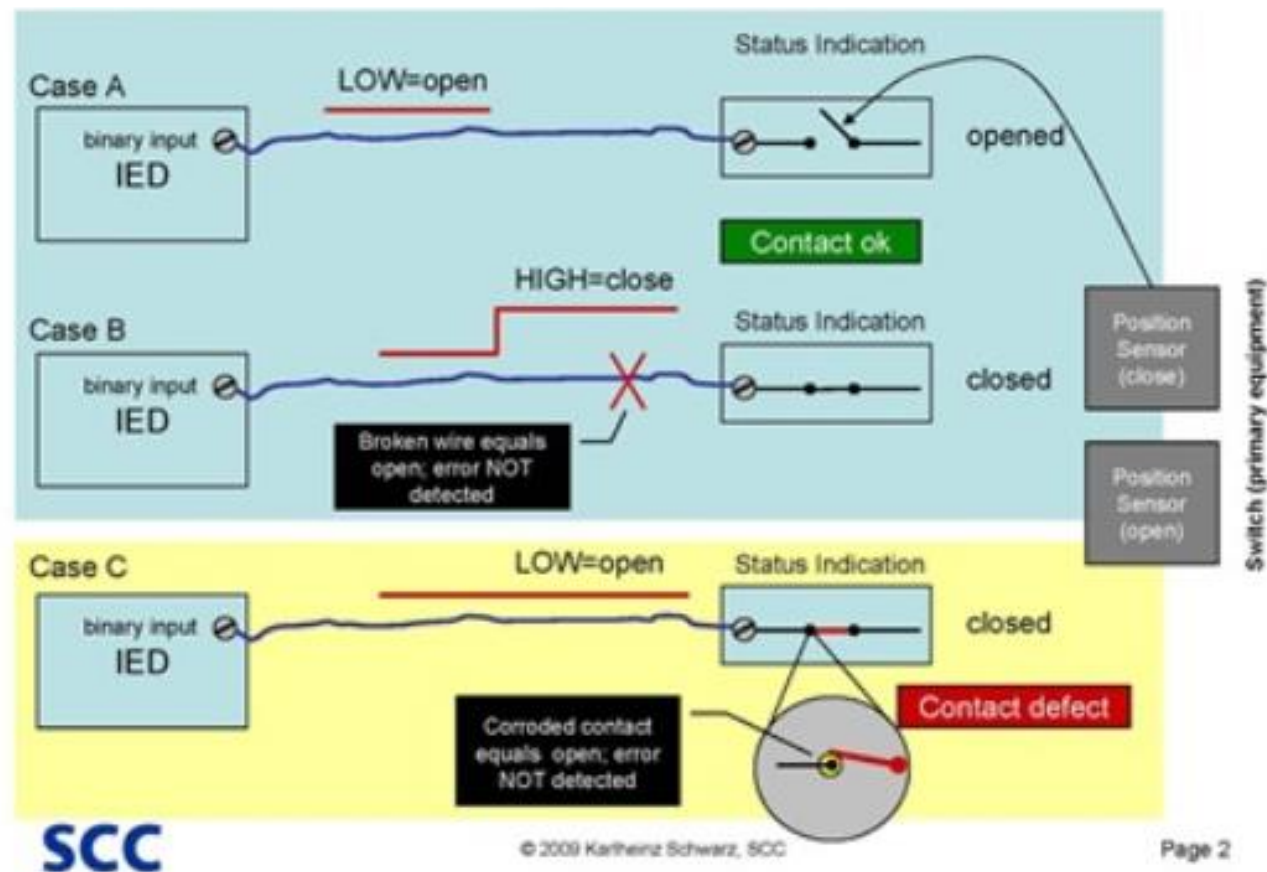
Protocols

- IEC61850 / IEC 60870-5-104 / DNP3

Single Point Status Alarm (1 Digital State for Open / Close)

- Voltage detected on the input contact: Switch Closed
- No Voltage detected on the input contact: Switch Open

“Single Point” Status Indication (conventional wiring)



Double Point Status Alarms

What are DPS Alarms?

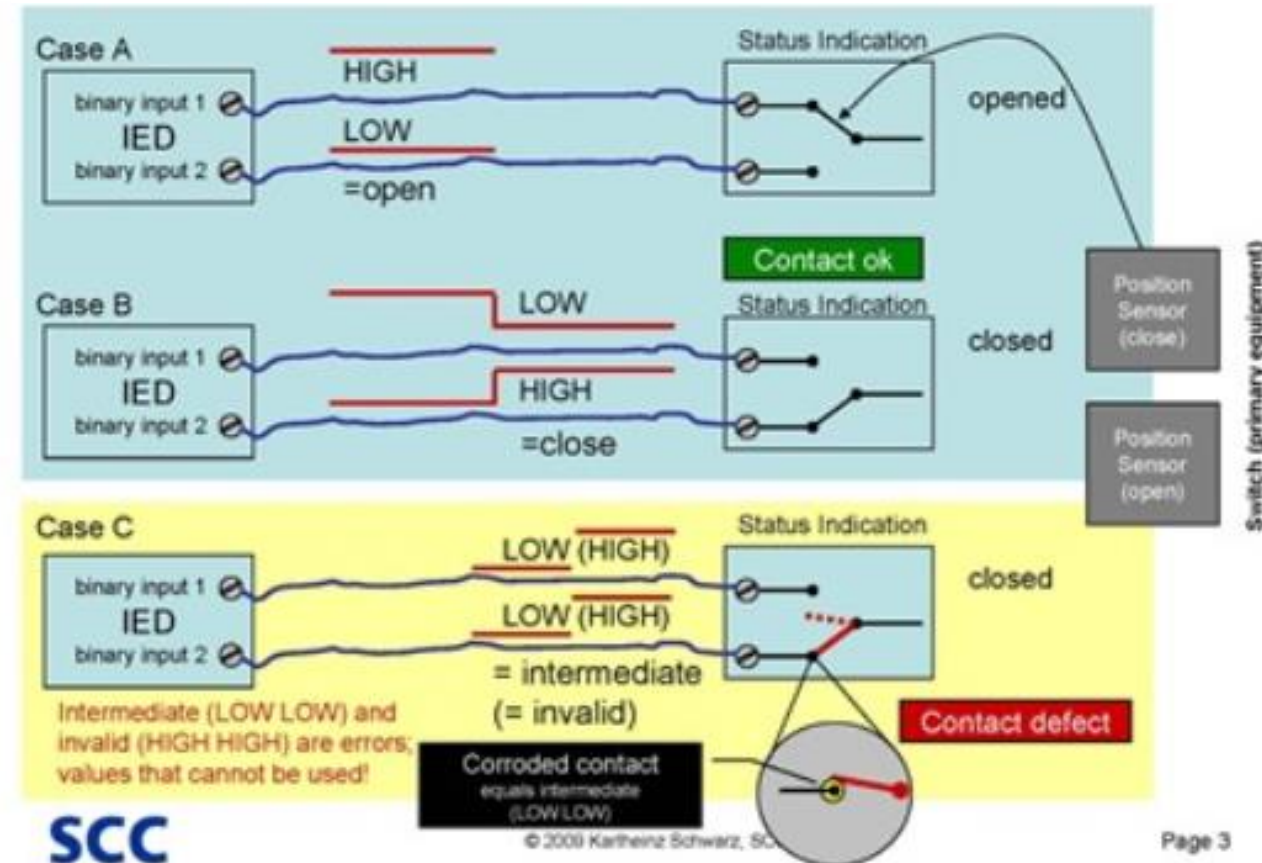
Double Point Status Alarm (2 Digital States for Open / Close)

- Two Bits for the representation of "open" and "close" make the status message secure.
 - Broken Wire
 - Defective / Corroded Contact
 - No Electrical Signal feedback
 - A single bit may cause a wrong interpretation of the value!

Requested by Schneider Electric

- Plant SCADA Power Connect Driver Pack (Speciality Driver Pack)
- EcoStruxure Power Operation

"Double Point" Status Indication (conventional wiring)



Double Point Status Alarms

Double point status alarm responds to eight states in a field device that are represented in Plant SCADA as a single integer tag. For each state you can specify:

- State Name <n> Represents the Alarm state
- State Type <n> Action for this state

State Type Options:

- Alarm: Show on Active Alarms page, event logged to SOE
State Name shows in State field
- Event: Event logged to SOE
State Name shows in State field
- None: No action

Define up to 8 states with custom names

States configuration interface showing 5 states:

State Name 0	Unknown
State Active 0	1
State Name 1	Open
State Active 1	0
State Name 2	Close
State Active 2	0
State Name 3	Jammed
State Active 3	1
State Name 4	
State Active 4	

Source and States configuration interface:

Source: Variable Tag Int1

State Name 0	Off_State0
State Type 0	None
State Name 1	On_State1
State Type 1	Alarm
State Name 2	Off_State2
State Type 2	Event
State Name 3	On_State3
State Type 3	Alarm
State Name 4	Off_State4
State Type 4	Event
State Name 5	On_State5
State Type 5	Alarm
State Name 6	Off_State6
State Type 6	Event
State Name 7	On_State7
State Type 7	Alarm

Value	State Name	State
0	Unknown	On
1	Open	Off
2	Close	Off
3	Jammed	On

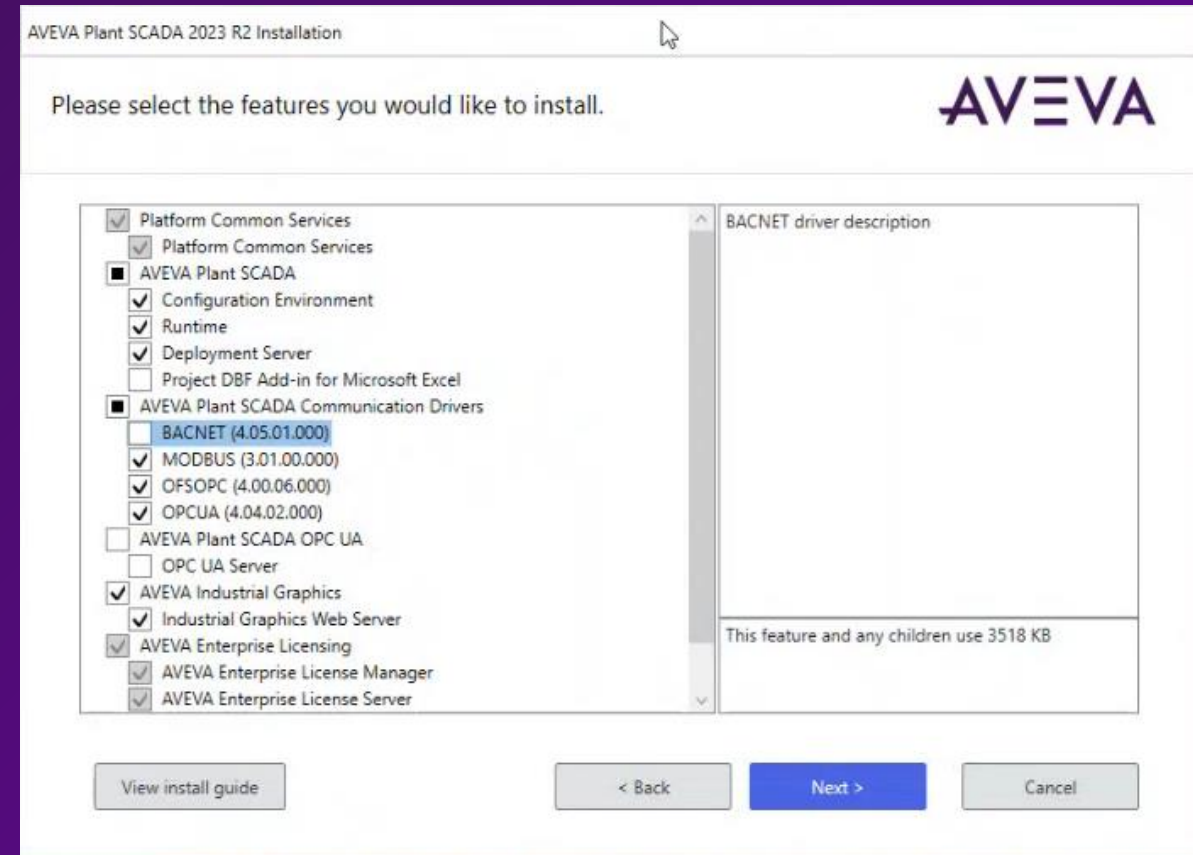
Double Point Status Alarm

Plant SCADA February Program review demo

Graeme Davey

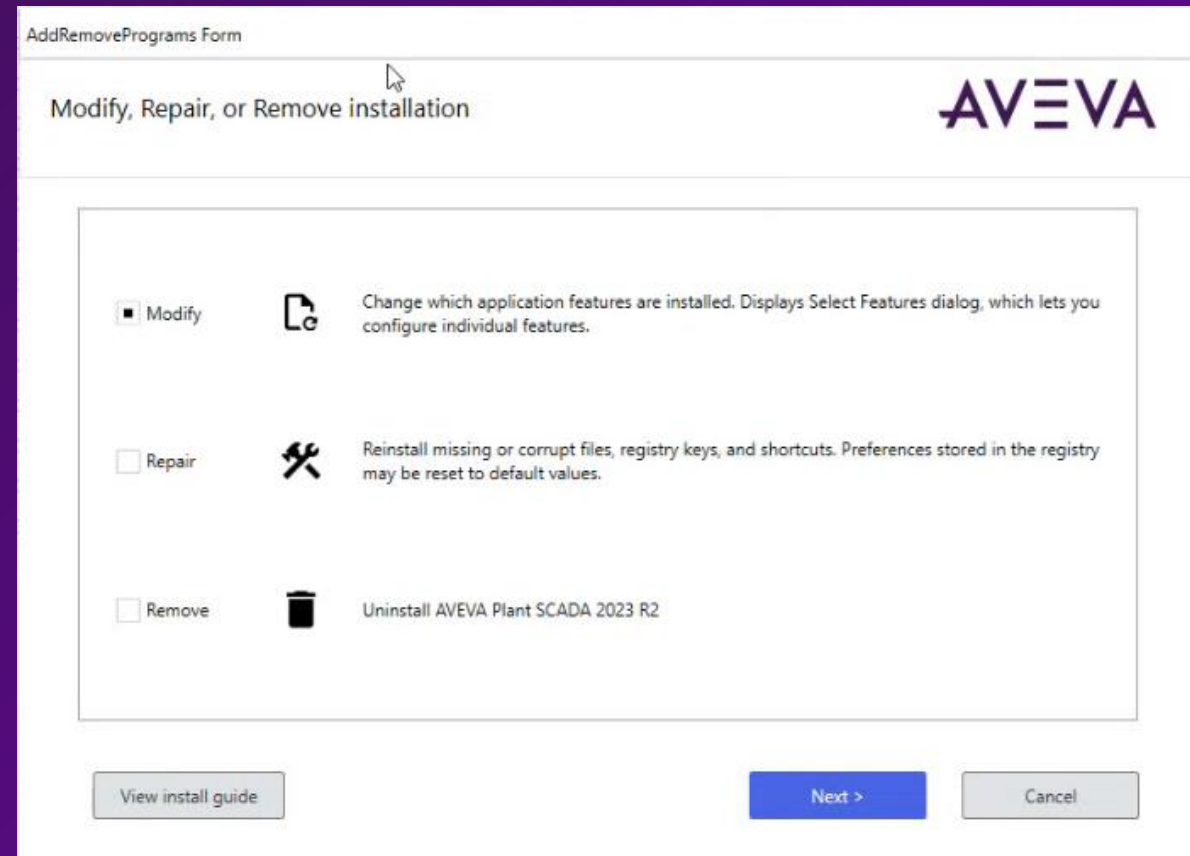
New Installation Framework

- New modern installation framework that simplifies the selection and installation of required components
 - Built using AVEVA's common technology stack for a similar Installation Experience leveraging the Install Toolkit (ITK)






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- Core components appear as a single entry within the Programs and Features list in Windows Control Panel, making it easier to modify, repair or remove the application.



The screenshot displays the 'AddRemovePrograms Form' for AVEVA Plant SCADA 2023 R2. The form is titled 'Modify, Repair, or Remove installation' and features the AVEVA logo in the top right corner. The main content area contains three options, each with a checkbox, an icon, and a description:

- Modify**  Change which application features are installed. Displays Select Features dialog, which lets you configure individual features.
- Repair**  Reinstall missing or corrupt files, registry keys, and shortcuts. Preferences stored in the registry may be reset to default values.
- Remove**  Uninstall AVEVA Plant SCADA 2023 R2

At the bottom of the form, there are three buttons: 'View install guide' (disabled), 'Next >' (active), and 'Cancel' (disabled).

New Installation Framework

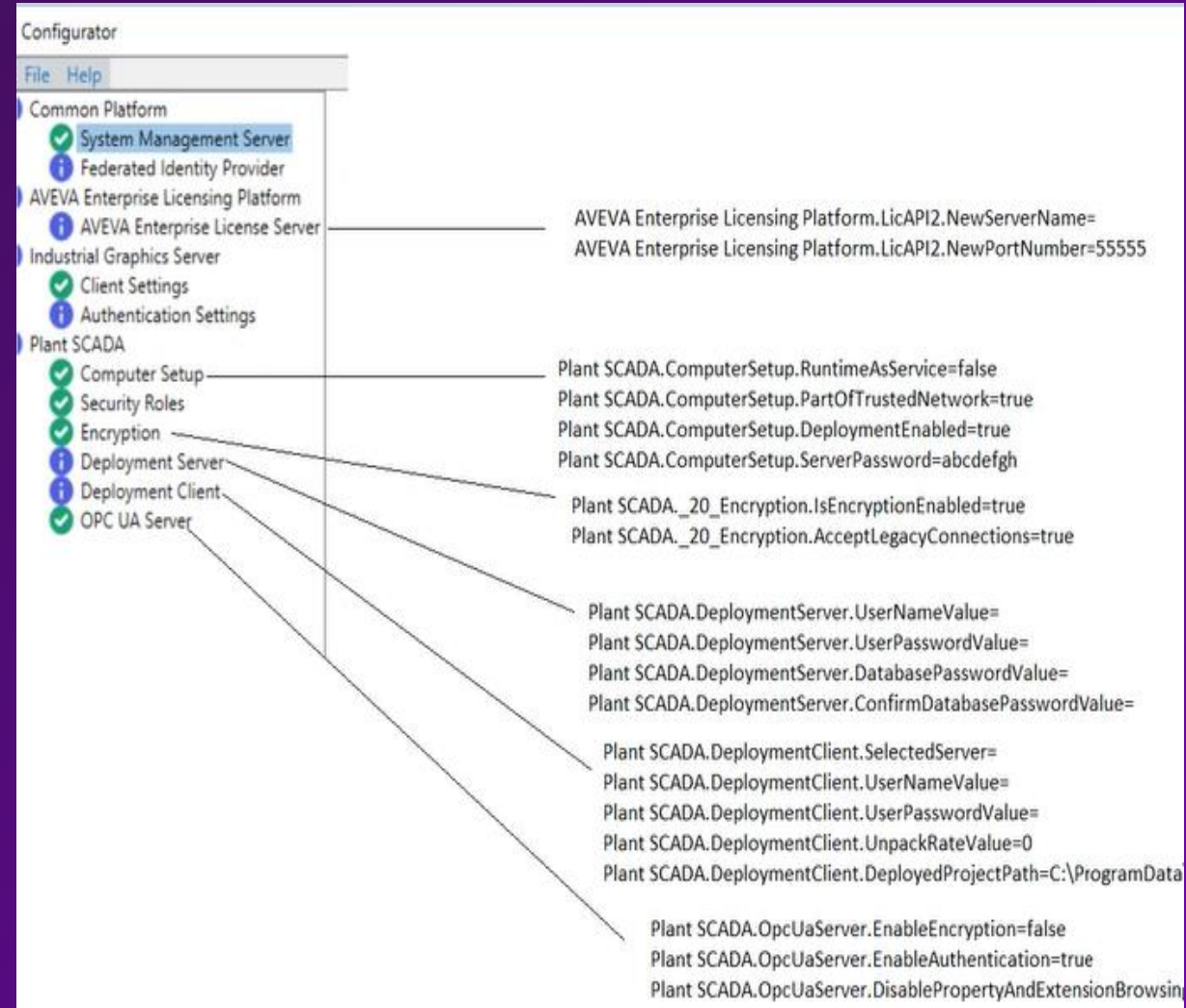
- New modern installation framework that simplifies the selection and installation of required components
 - Built using AVEVA's common technology stack for a similar Installation Experience leveraging the Install Toolkit (ITK)
- Core components appear as a single entry within the Programs and Features list in Windows Control Panel, making it easier to modify, repair or remove the application.
- Can be executed via a command line, **enabling support for an unattended silent installation.**
- Four preconfigured response files are provided:
 1. All.txt All components
 2. DevelopmentWorkstation.txt Components for development
 3. RuntimeClient.txt Components for runtime client
 4. Server.txt Components for runtime server

```
File Edit View
<responsefile>
<install>
  ComputerRoleSelectionForm.SelectedComputerRoleName=DevelopmentWorkstation
  FeaturesForm.SFeatureList=ALL
  SecurityGroupForm.AddUserToGroups=true
  FirewallForm.ModifyFireWall=true
  CustomDestinationSelectionForm.InstallDirPath=C:\Program Files (x86)\AVEVA Plant SCADA
  CustomDestinationSelectionForm.ProgramDataPath=C:\ProgramData\AVEVA Plant SCADA 2023 R2
</install>
<configurator>
AVEVA Enterprise Licensing Platform.LicAPI2.NewServerName=
AVEVA Enterprise Licensing Platform.LicAPI2.NewPortNumber=
AVEVA Enterprise Licensing Platform.LicAPI2.NewAgentPortNumber=
Common Platform.ASBRuntime.HttpPort=88
Common Platform.ASBRuntime.HttpsPort=
Common Platform.ASBRuntime.ManagementServerPort=
Common Platform.ASBRuntime.ManagementServerName=
Common Platform.ASBRuntime.AsbManagedCertificates=true
Common Platform.ASBRuntime.IsRedundantSsoServer =false
Common Platform.ASBRuntime.SuitelinkMixedModeEnabled=false
Common Platform.ASBRuntime.NmxAllowAllUsers=false
Plant SCADA.ComputerSetup.RuntimeAsService=true
Plant SCADA.ComputerSetup.PartOfTrustedNetwork=true
Plant SCADA.ComputerSetup.DeploymentEnabled=true
Plant SCADA.ComputerSetup.ServerPassword=
Plant SCADA.Encryption.IsEncryptionEnabled=true
Plant SCADA.Encryption.AcceptLegacyConnections=true
Plant SCADA.DeploymentServer.UserNameValue=
Plant SCADA.DeploymentServer.UserPasswordValue=
Plant SCADA.DeploymentServer.DatabasePasswordValue=c
Plant SCADA.DeploymentServer.ConfirmDatabasePasswordValue=c
Plant SCADA.DeploymentClient.SelectedServer=
Plant SCADA.DeploymentClient.UserNameValue=
Plant SCADA.DeploymentClient.UserPasswordValue=
Plant SCADA.DeploymentClient.UnpackRateValue=0
Plant SCADA.DeploymentClient.DeployedProjectPath=C:\ProgramData\AVEVA Plant SCADA 2023 R2\Deployment\Client\Projects
Plant SCADA.OpcUaServer.Port=
```

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E.g. Setup.exe /silent "D:\PlantSCADA\MyResponseFiles\All.txt"



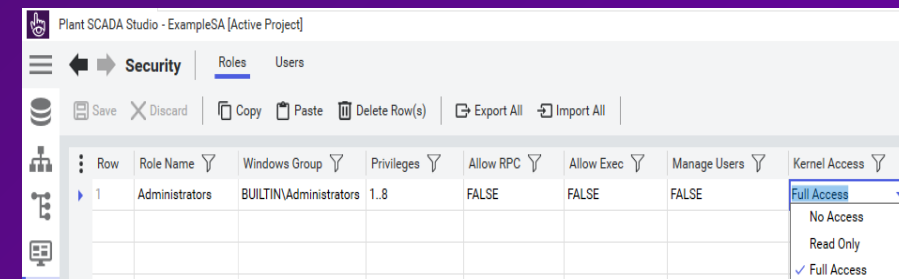
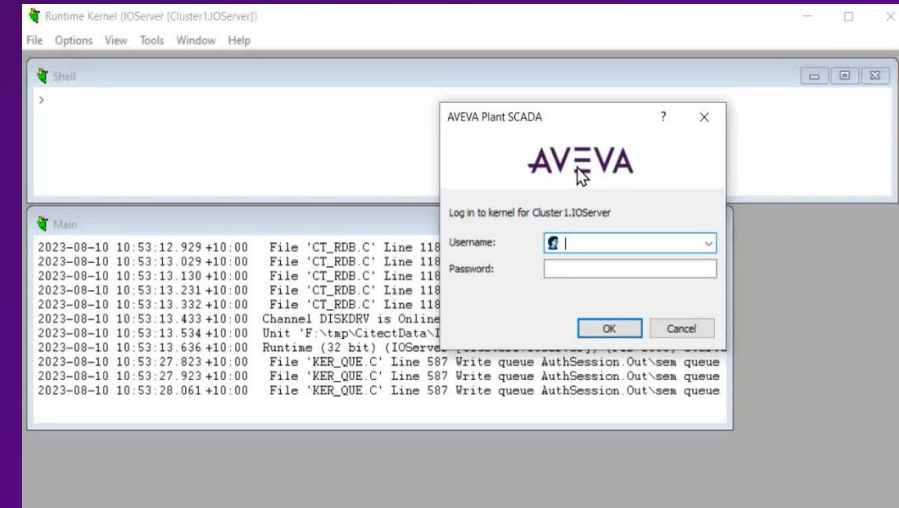
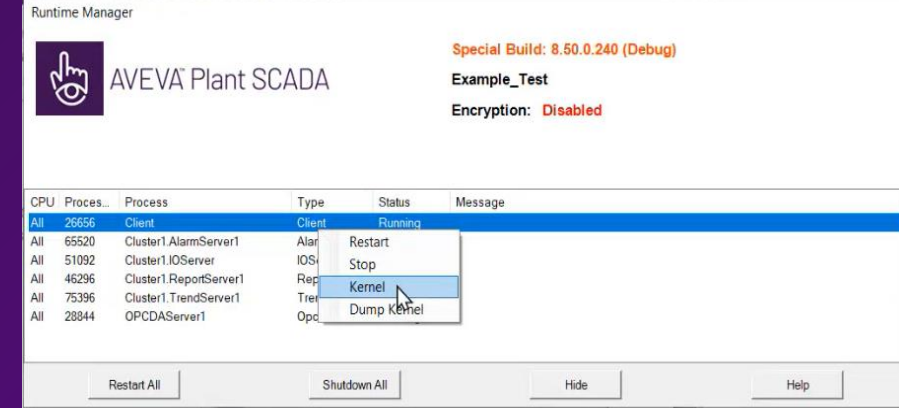


Please select the features you would like to install.

<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Platform Common Services <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Platform Common Services <input type="checkbox"/> AVEVA Plant SCADA <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Configuration Environment <input checked="" type="checkbox"/> Runtime <input checked="" type="checkbox"/> Deployment Server <input type="checkbox"/> Project DBF Add-in for Microsoft Excel <input type="checkbox"/> AVEVA Plant SCADA Communication Drivers <ul style="list-style-type: none"> <input checked="" type="checkbox"/> ABCLX (5.04.00.004) <input checked="" type="checkbox"/> ABMLXEIP (2.01.00.000) <input checked="" type="checkbox"/> ABTCP (3.02.00.002) <input type="checkbox"/> BACNET (4.06.00.008) <input type="checkbox"/> CTICMP (4.02.00.003) <input checked="" type="checkbox"/> DNPR (5.02.00.001) <input type="checkbox"/> GETCP (3.02.00.002) <input type="checkbox"/> IEC870IP (5.02.00.004) <input type="checkbox"/> KNX (2.04.00.005) <input checked="" type="checkbox"/> MEL SECO (2.02.00.000) 	<p>Provides the following services:</p> <ul style="list-style-type: none"> - System Management Server - Identity Management Service - Data Storage Service - Diagnostic Portal
<p>For Internal Use Only. ©2022 AVEVA Group plc and its subsidiaries. All rights reserved.</p>	<p>This feature and any children use 348201 KB</p>

Kernel – Access Improvements

- Improved Security while monitoring the Runtime System
 - Typically used for Diagnostics
- Display the Kernel while running as a Service
- Launch the Kernel of any process
 - Runtime Manager
 - Control Menu / DspKernel()
- New Login Prompt Screen
- Assigned to Role with Kernel Access property
 1. No Access No access at all
 2. Full Access No restrictions
 3. Read Only No privilege to run Cicode
- Legacy “Kernel user” has been deprecated



Unique IDs for Equipment

- Unique ID is applied to any equipment and equipment types
 - Typically referred to as the Globally Unique Identifier (GUID)
- Used for consistent identification for integration with future software releases.
- Automatically generated whenever equipment is added
- Migration Tool includes option to Create unique IDs for Variables and Equipment.
- Future Use Case:
 - Integration with Version Control Software

Search Properties	
General	
Name	Company.Library.Drive01
Cluster Name	Cluster1
Display Name	SA Drive01
Type	Drive_MEO
Location	
Page	Drives
Content	FP_Drives
Help	
Comment	SA Library Drive
Tag Prefix	SA_Drives
I/O Device	Internal
Hidden	
Unique ID	a07744cd-5b39-4b53-b7aa-463b1f1add38

Search Properties	
General	
Name	Drive_MEO
Template	Drive_MEO.xml
Comment	
Unique ID	2d85ab46-1707-4f14-9072-060eda1eac47

Project Migration

Select a project to migrate
ExampleSA

Migrate included projects
 Append to existing log file

Create unique IDs for Variables and Equipments
 Migrate Equipment database, Types and Parameters
 Create Computers from Network Addresses
 Remove obsolete Memory and Alarm devices
 Create Roles from User security information
 Copy XP_Style menu into Tab_Style menu
 Migrate ABCLX to OPCLX
 Migrate Trend / SPC storage method

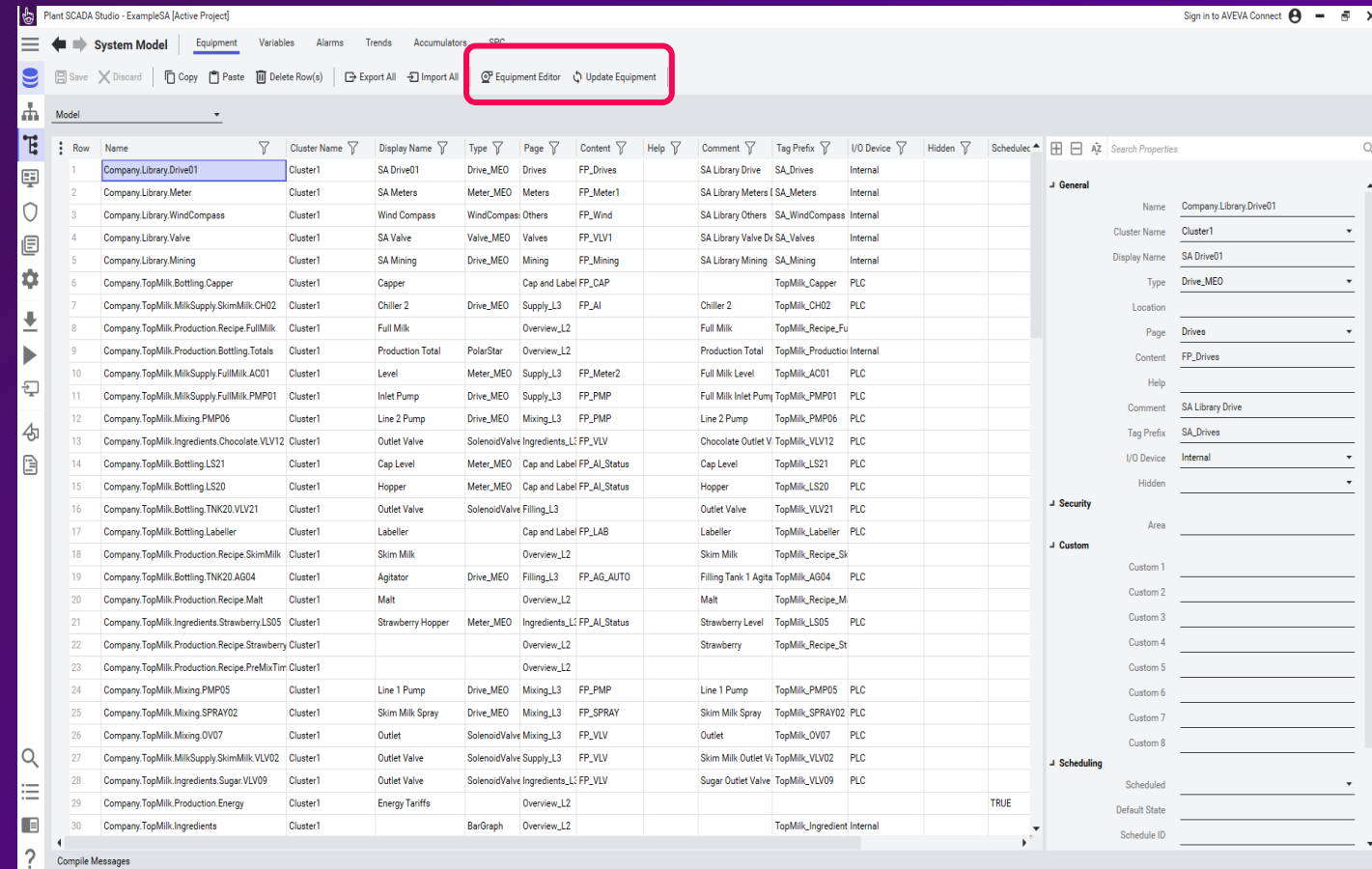
Configure

Migrate Close Help

Equipment Update Speeds

Performance of Equipment Update has been improved.

- The time taken to generate tags and equipment is significantly reduced compared to earlier versions



Equipment Update Speeds

Test Projects:

- Large Project
 - 12K Pieces of Equipment
 - 50K Tags

Older Versions
PS2023R2

3 hours

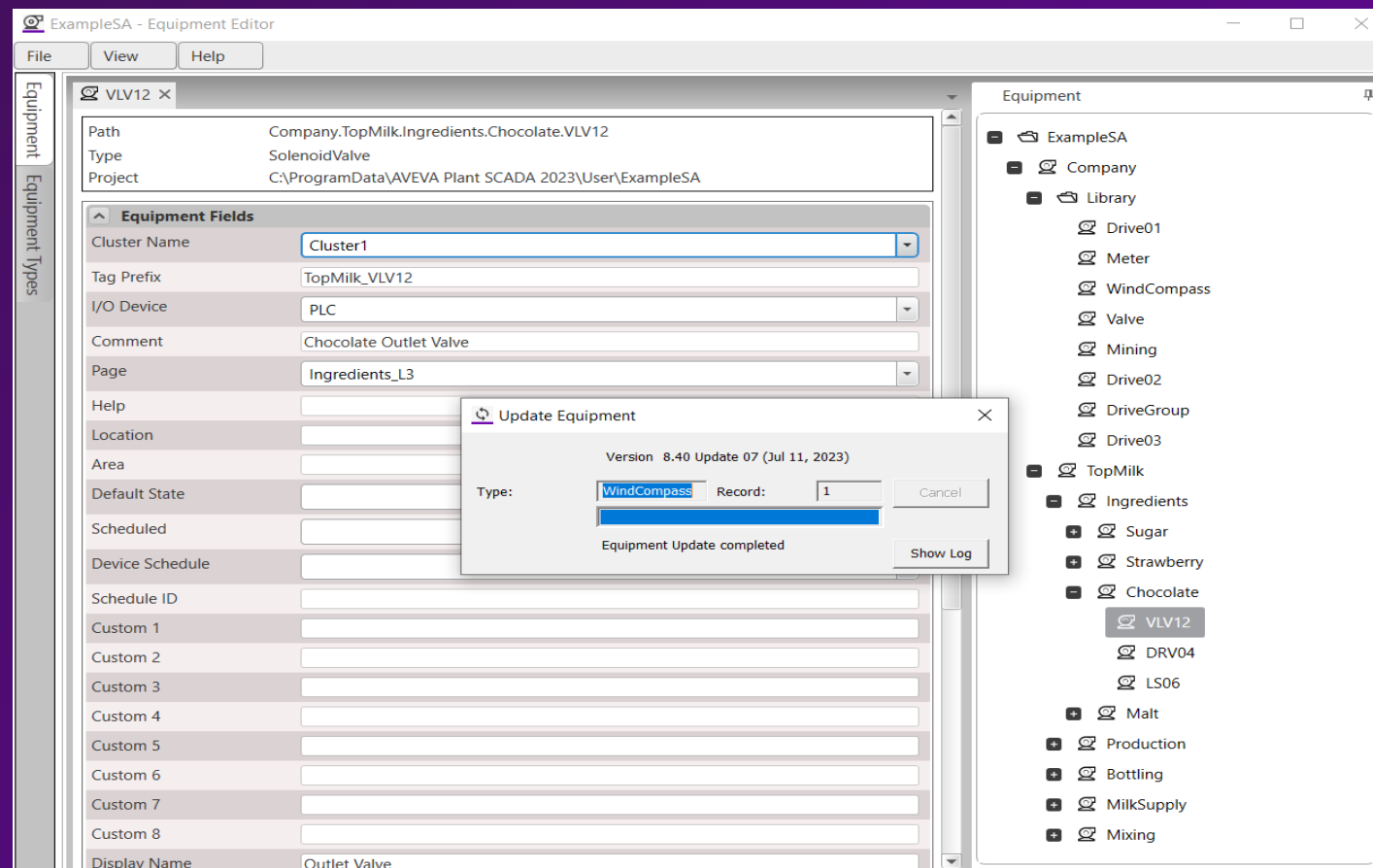
7 minutes

- Small Project
 - 1K Pieces of Equipment
 - 9K Tags

Older Versions
PS2023R2

3 hours

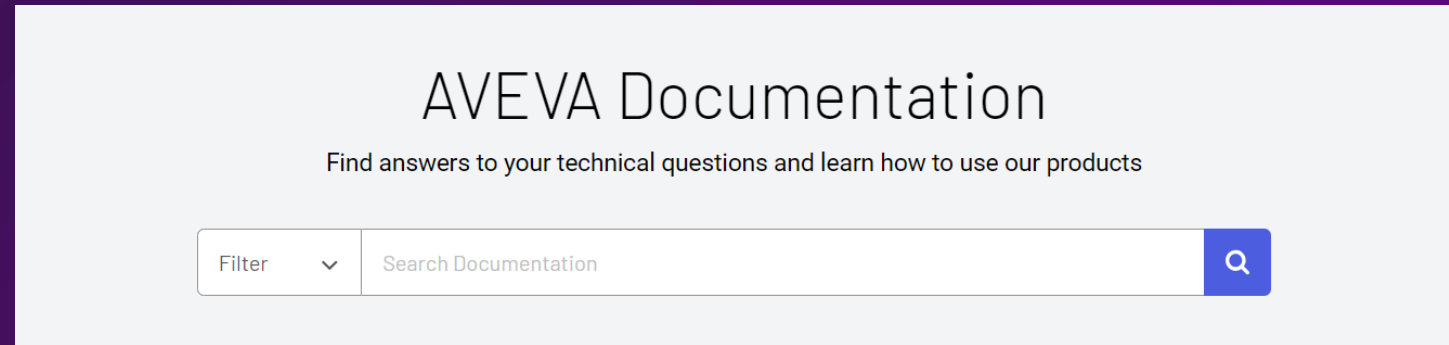
7 minutes



New Online Help System

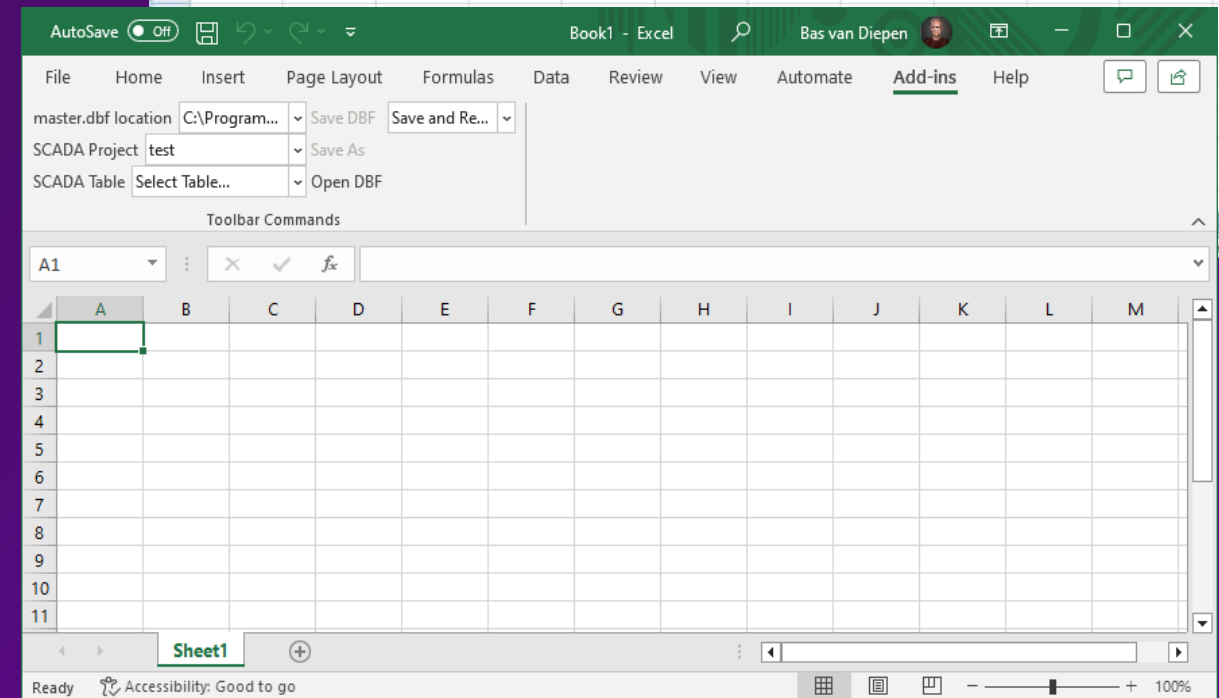
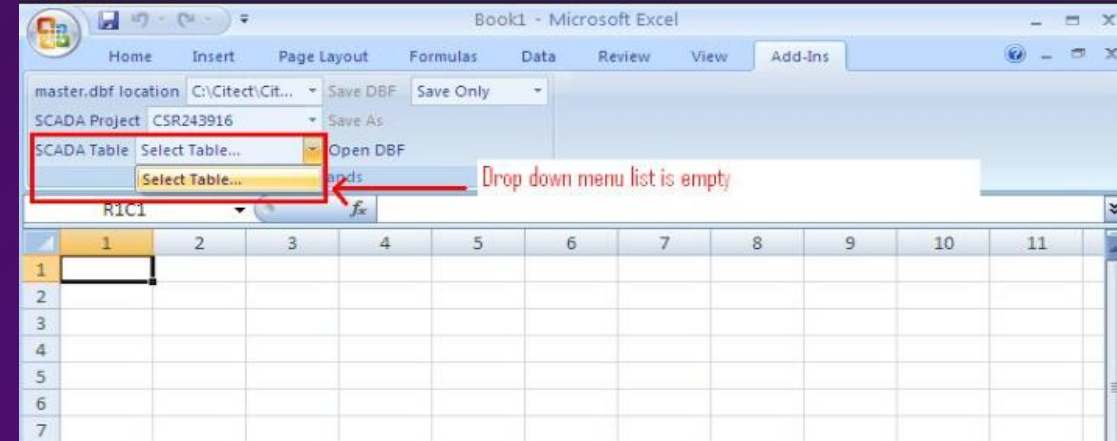
AVEVA™ Help

- Documentation for Plant SCADA is now presented using **AVEVA Help**
- Browser-based tool that allows any installed AVEVA products to share a common platform for the delivery of product information
- The move to the AVEVA Help platform means the Plant SCADA documentation is ready for distribution on emerging documentation platforms, including cloud-based environments and the AVEVA Documentation portal
- <https://docs.AVEVA.com>
- AVEVA™ Help is accessible from the AVEVA branch of the Windows **Start** menu.
 - When launched, it will display in your default browser
 - The panel to the left includes a list of any locally-installed AVEVA products that utilize the AVEVA Help platform. You can open the documentation for a product on its own browser tab.



Support for Microsoft Excel - 64 Bit

- Project DBF Add-On Utility
 - Add-in is specifically designed for use with Microsoft Excel
- Enhanced the add-on tool
 - Microsoft Excel 64 bit
- Open Microsoft Excel, Selection Toolbar Appears
 1. Select your Project
 2. Select Table
 - a) Equipment
 - b) Tags
 - c) Alarms
 - d) Trends
 3. Save changes made to a .dbf file (table).



Minor Enhancements

Web Content Object for Standard Graphics

A new parameter has been added which will help improve the creation of standard graphics in the graphics builder.

Continuous Updates and Integrations

AVEVA Enterprise Licensing Update to Version 4.0

Operating Improvements

The default value of the INI parameter (Kernal) has been increased to 512 from 256.

Graphics Builder Updates

A shortcut text has been added to the close menu item in graphics builder. Currently in English only versions.

Font Selection in AlarmList Genie

The user can now specify the font of their choice for the selected rows of the alarm pages provided with the Situational Awareness Starter Project.

Increased Capacity with Cicode Stack Window

The size of the stack window buffer has now been doubled to help reduce certain problem scenarios.

Secondary Trend Backfill

The default backfill limit has been increased to reflect large trend counts possible with modern computer hardware. The list backfill requests can now be processed faster.

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.



Thank you!

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