



AVEVAWORLD
PARIS

16 OCTOBER 2024

AVEVA™ System Platform

Deep dive into latest enhancements

Ernst van Wyk

AVEVA

System Platform 2023

System Platform 2023

Q3

Q4

2021

Q1

Q2

Q3

Q4

2022

Q1

Q2

Q3

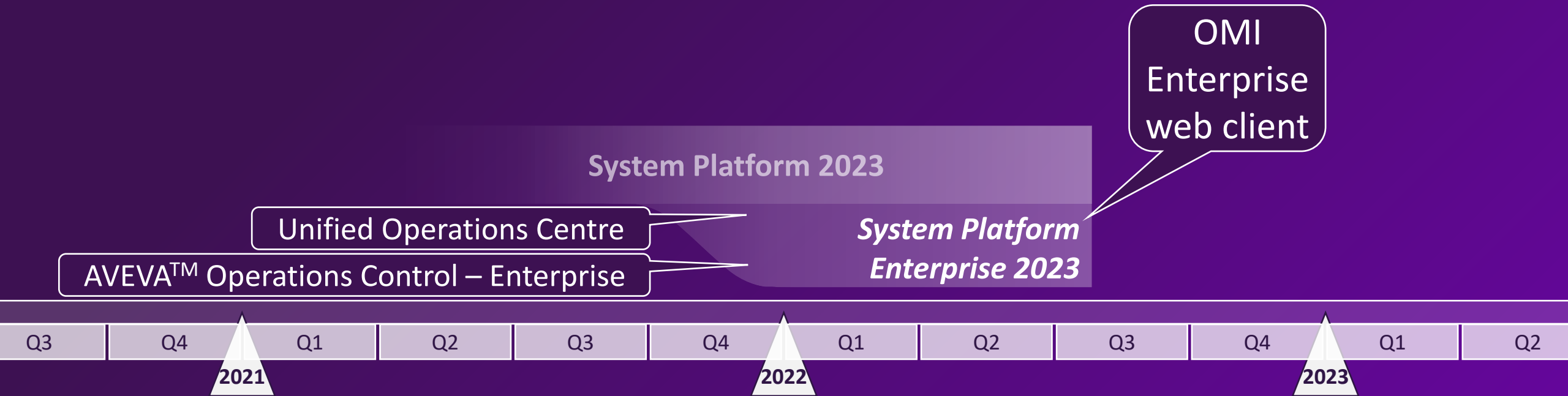
Q4

2023

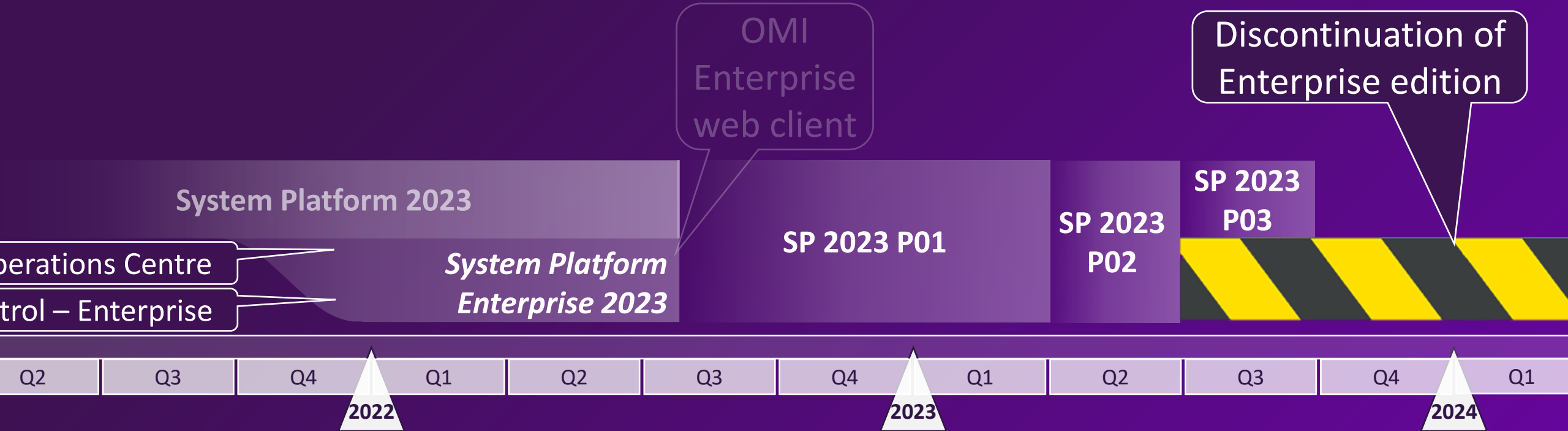
Q1

Q2

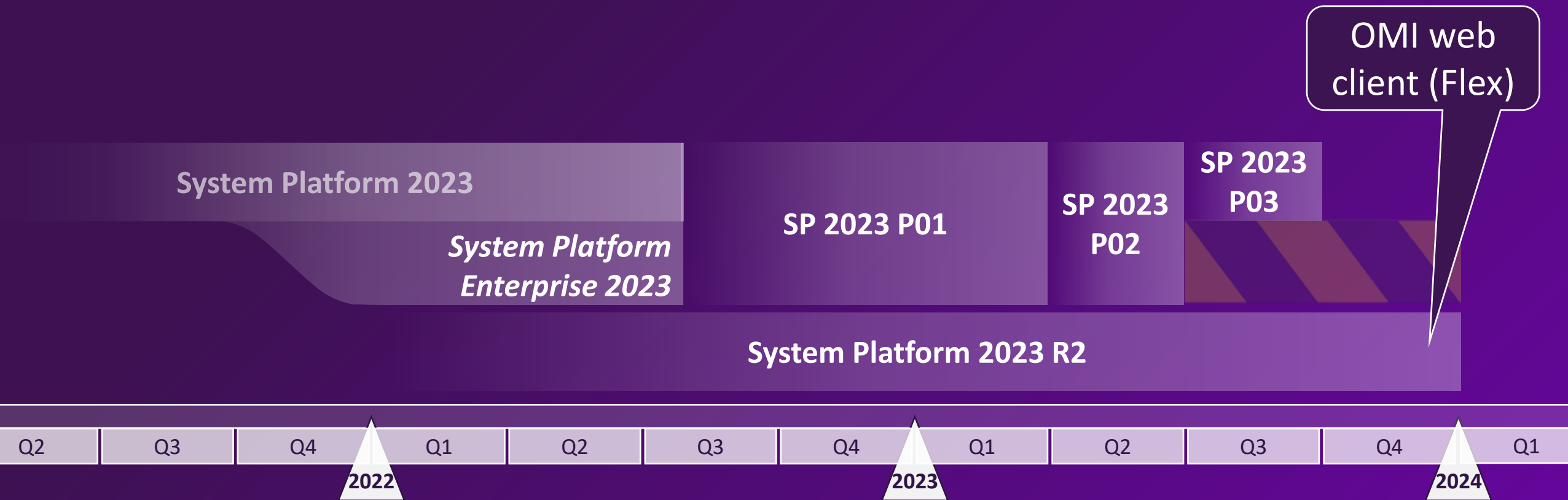
System Platform Enterprise 2023



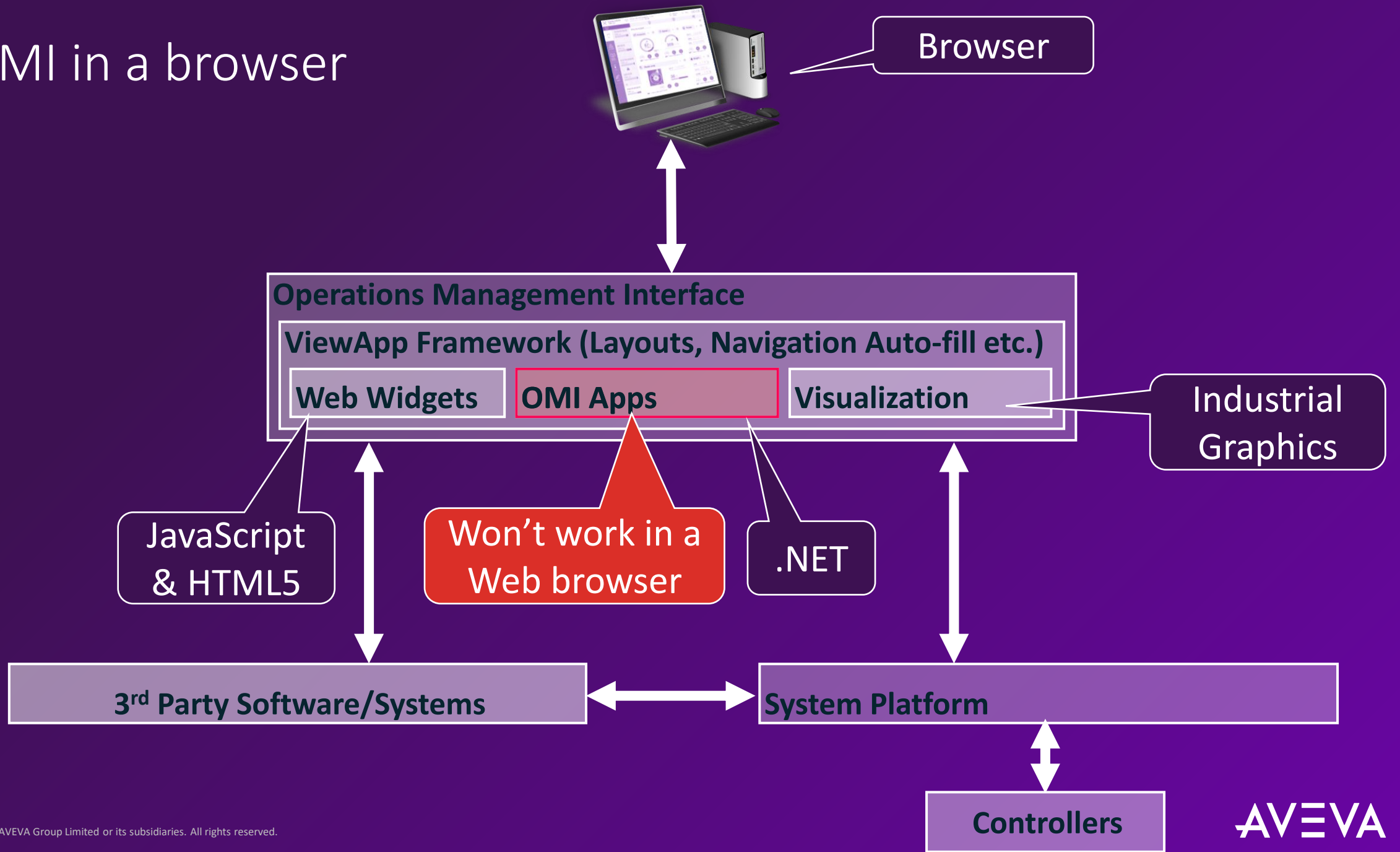
Patches



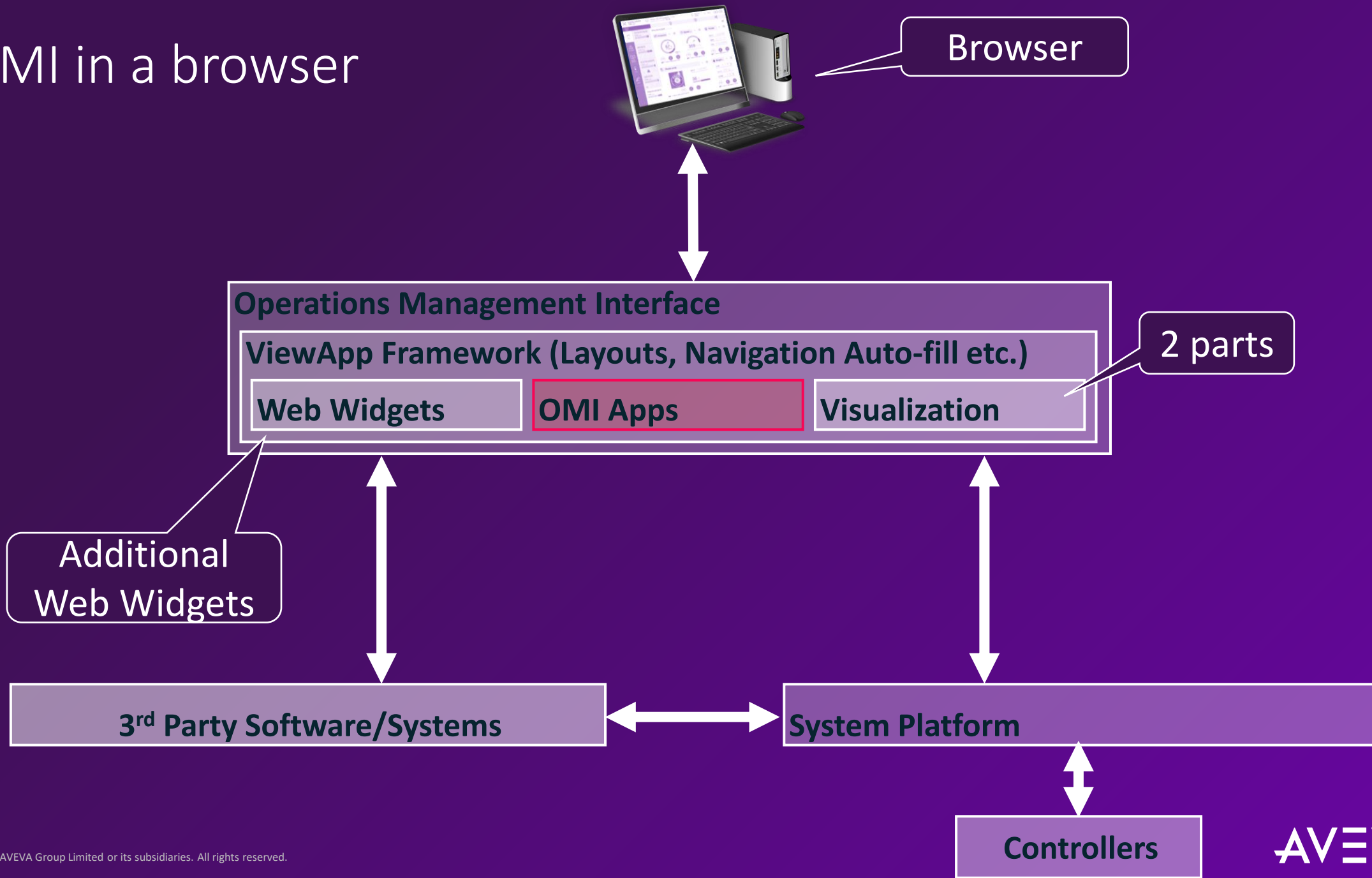
System Platform 2023 R2



OMI in a browser



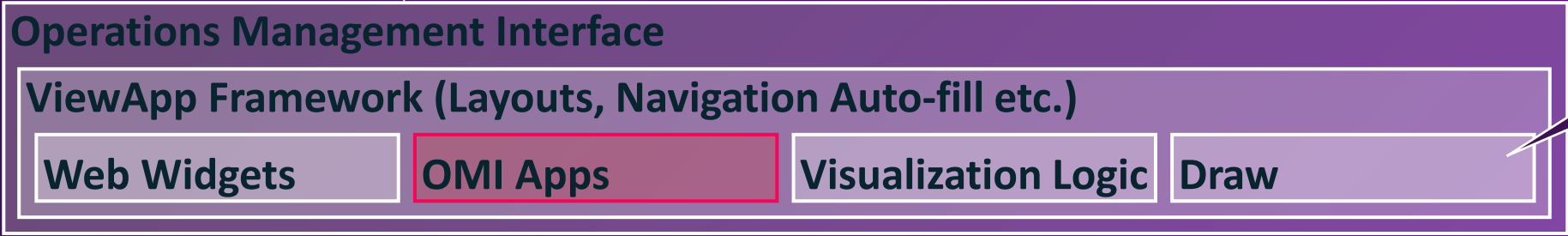
OMI in a browser



OMI web client
in browser!



OMI Web client



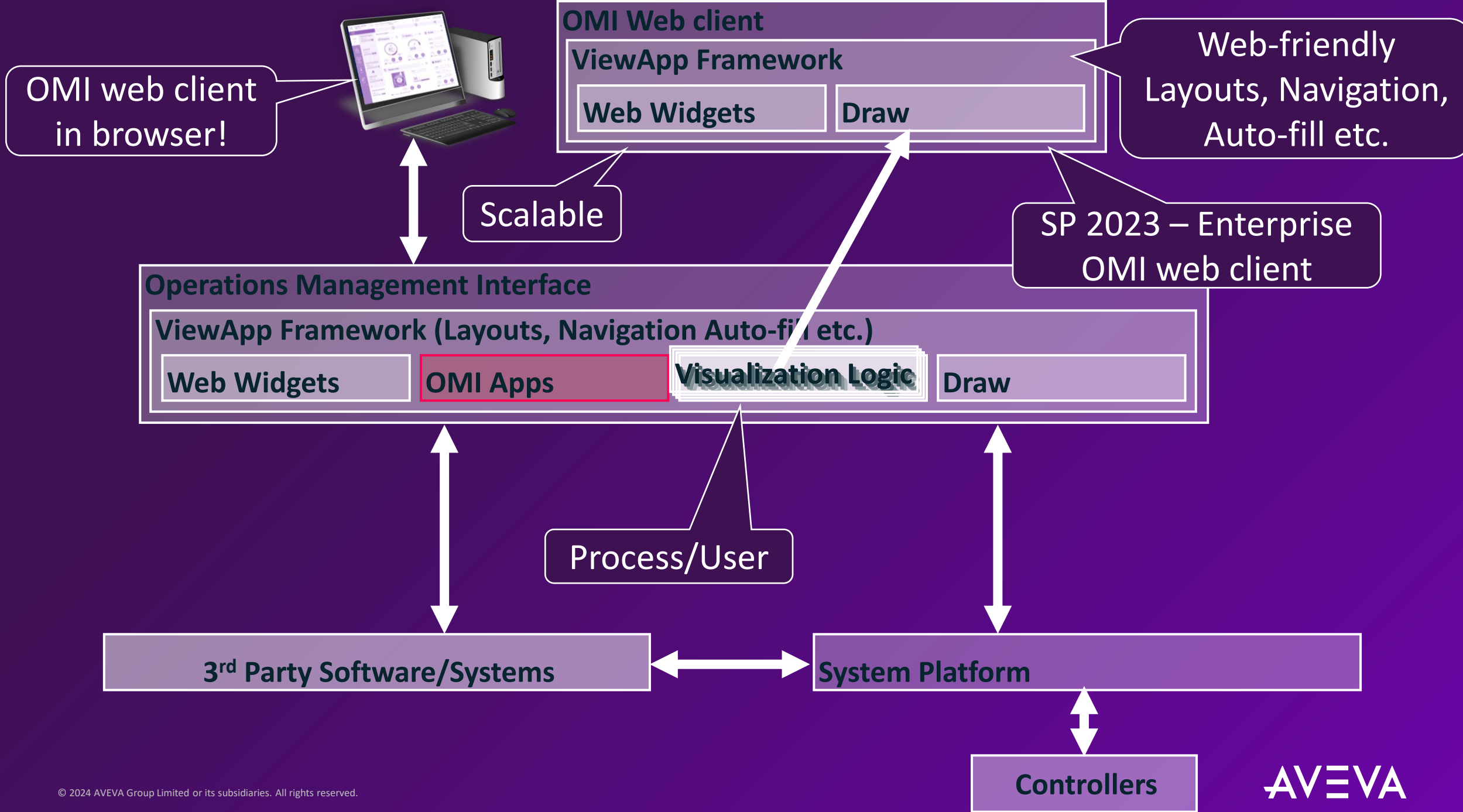
2 parts

3rd Party Software/Systems

System Platform

Controllers





2023 R2



OMI Web client

ViewApp Framework

Web Widgets

Visualization Logic

Draw

Operations Management Interface

ViewApp Framework (Layouts, Navigation Auto-fill etc.)

Web Widgets

OMI Apps

Visualization Logic

Draw

3rd Party Software/Systems

System Platform

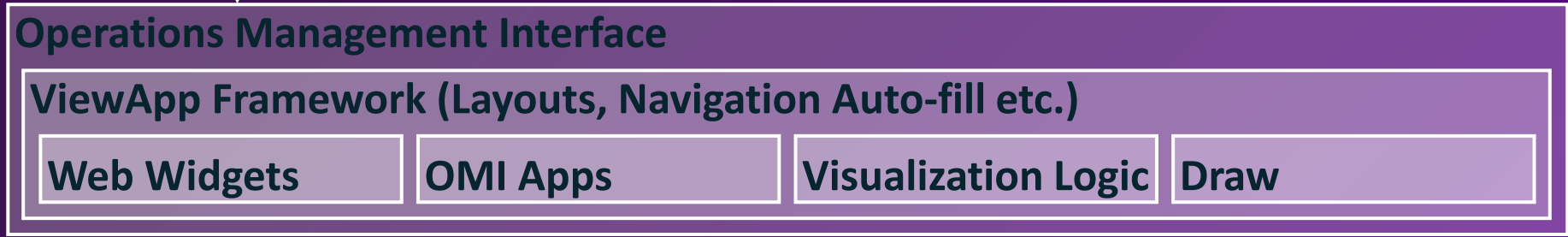
Controllers

AVEVA

2023 R2



SP 2023 R2



2023 R2



OMI Web client

ViewApp Framework

Web Widgets

OMI Apps

Visualization Logic

Draw

.NET

WASM

Blazor

Skia

Platform agnostic (not bound to Windows)

Single code base

Leverage existing investment

Same ViewApp as the desktop

Fast

No additional installations

Galaxy Home View Help

Open

Rename Alias name... Contained name... Duplicate Properties... Delete

Tagname dictionary

Selected

Instance Screen Namespace

Template Layout External content

Folder Graphics

Deploy... Undeploy...

Check-in

Save Save All Validate

Find...

Assign To... Unassign Set as default

Upload changes Object Viewer

Edit Import Export Create Deploy Check-in Save Find Assign Runtime

Templates

Search

Serenity

Templates Visualization

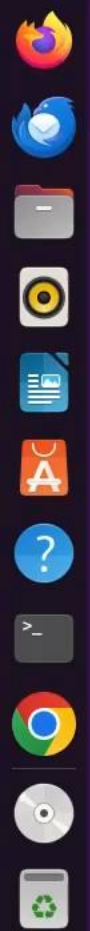
Derivation

Search

- \$SQLData
- \$UserDefined
- \$ViewApp
 - \$Experiment_Languages_Test
 - \$MobileViewApp
 - \$OMI_ViewApp_Desktop
 - \$psOMI_AlarmGym
 - \$psOMI_HistoricalPlayback
 - \$psOMI_ShowGraphic
 - \$psOMI_ViewApp_Demo
 - \$psOMI_ViewApp_Languages
 - NuclearPlant
 - psOMI_ViewApp_Languages
 - \$psOMI_ViewApp_Sandpit
 - \$R2ViewApp
 - \$R2WebViewApp
 - \$RDS_ViewApp_Demo

Model - Tagname Deployment Derivation



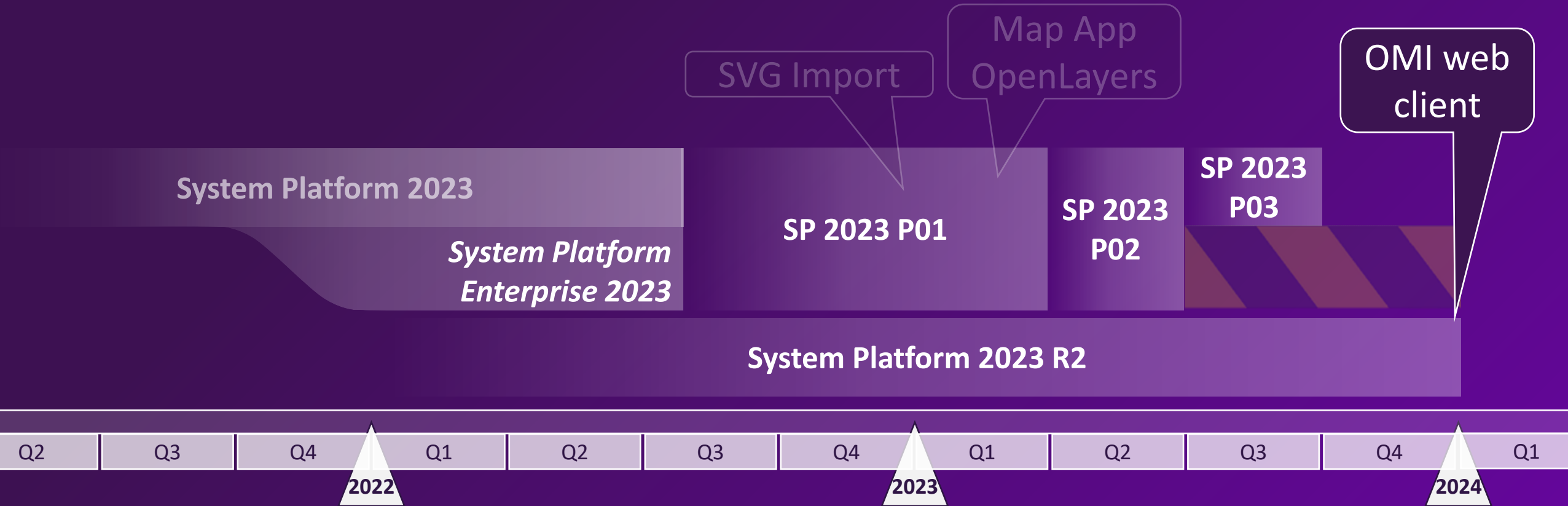


Home

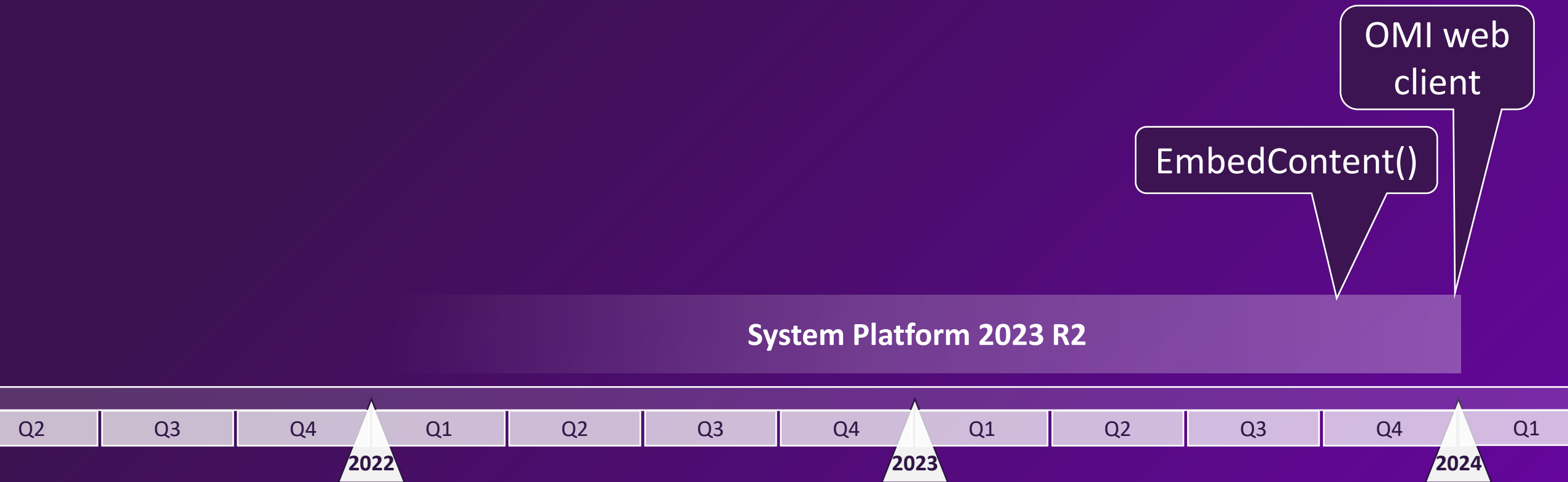
Ubuntu Linux

AVEVA™

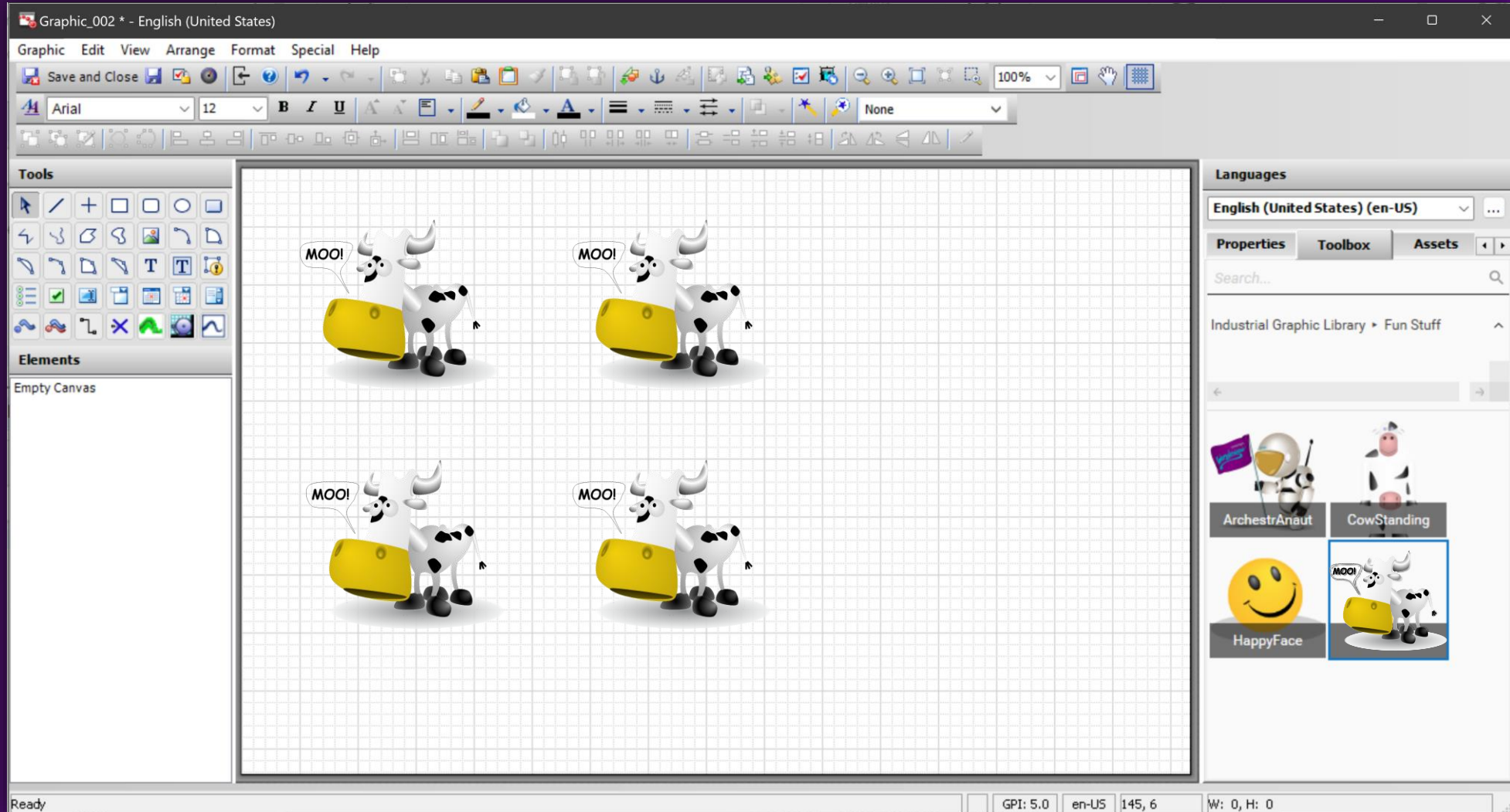
System Platform 2023 R2



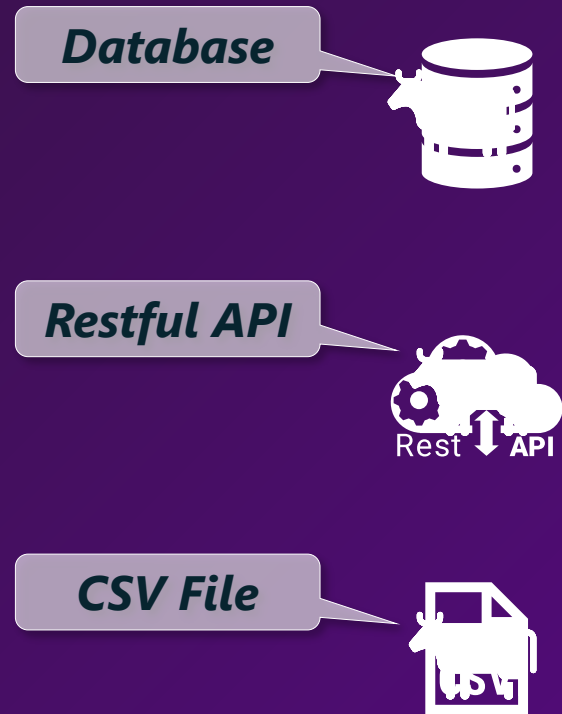
System Platform 2023 R2



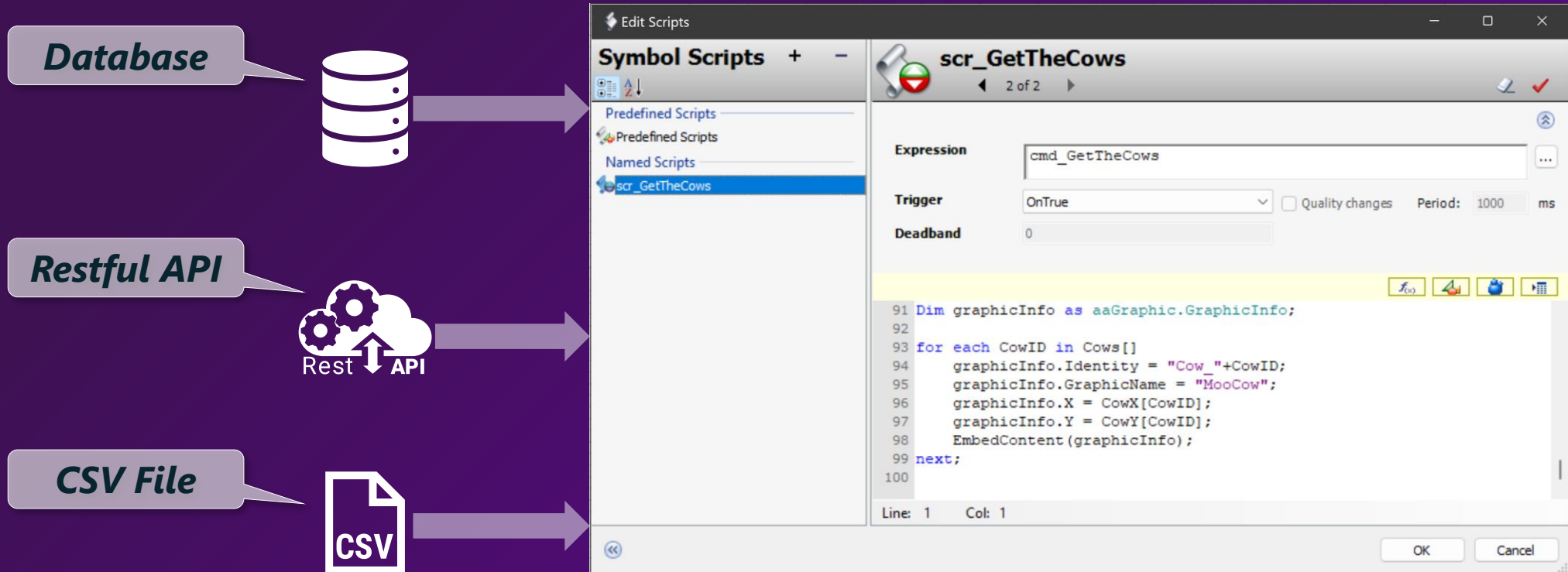
EmbedContent()



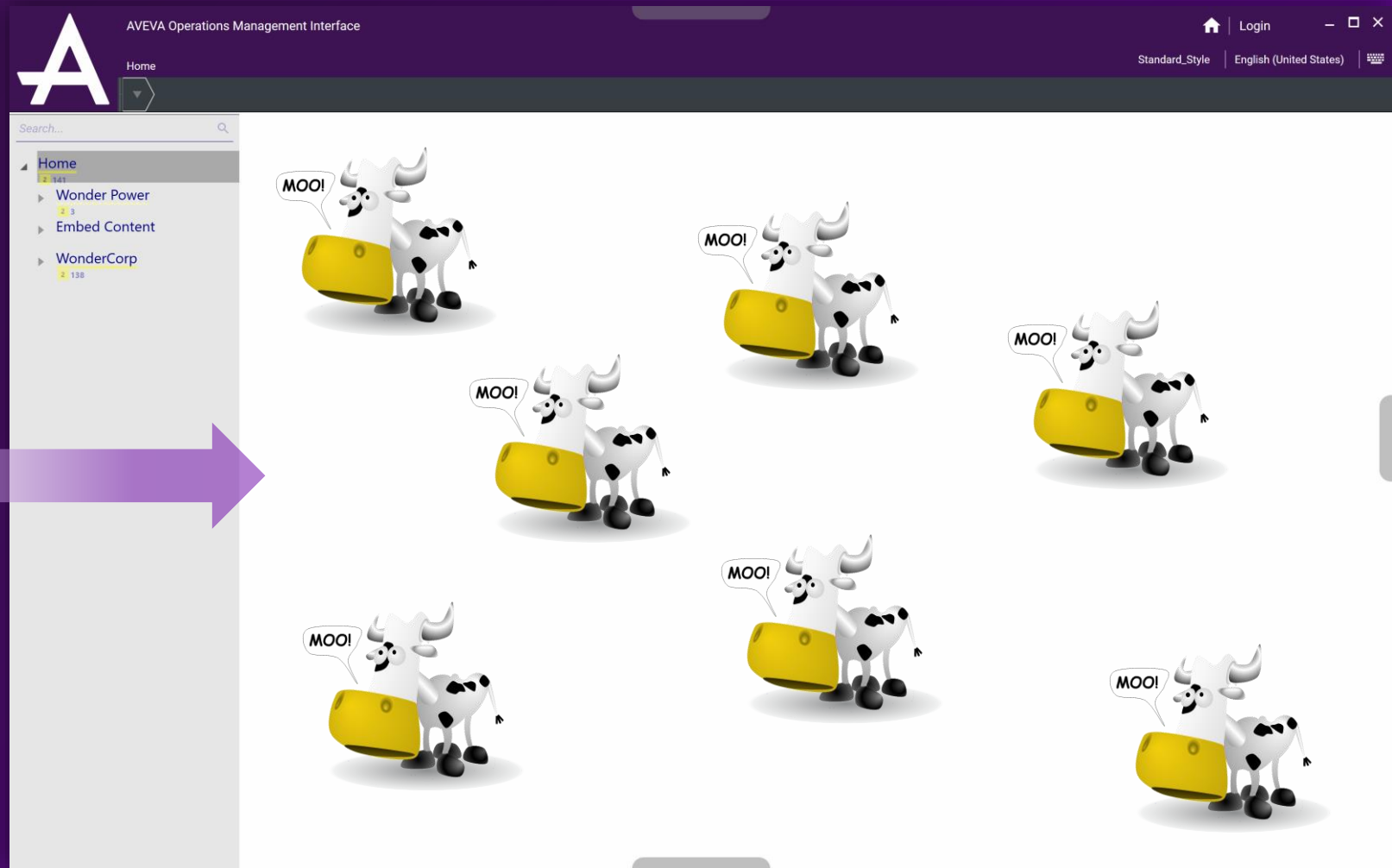
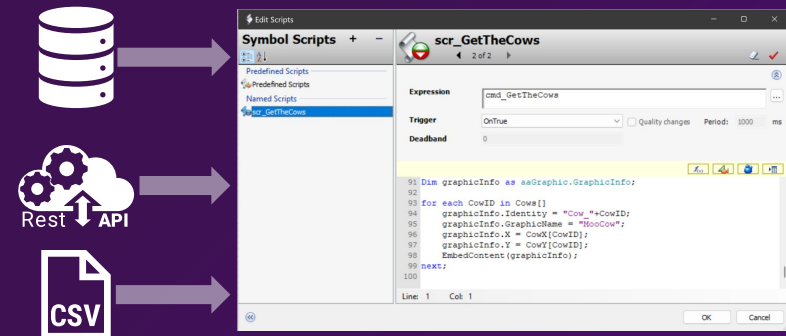
Transient data



Runtime Graphic embedding!



Runtime Graphic embedding!



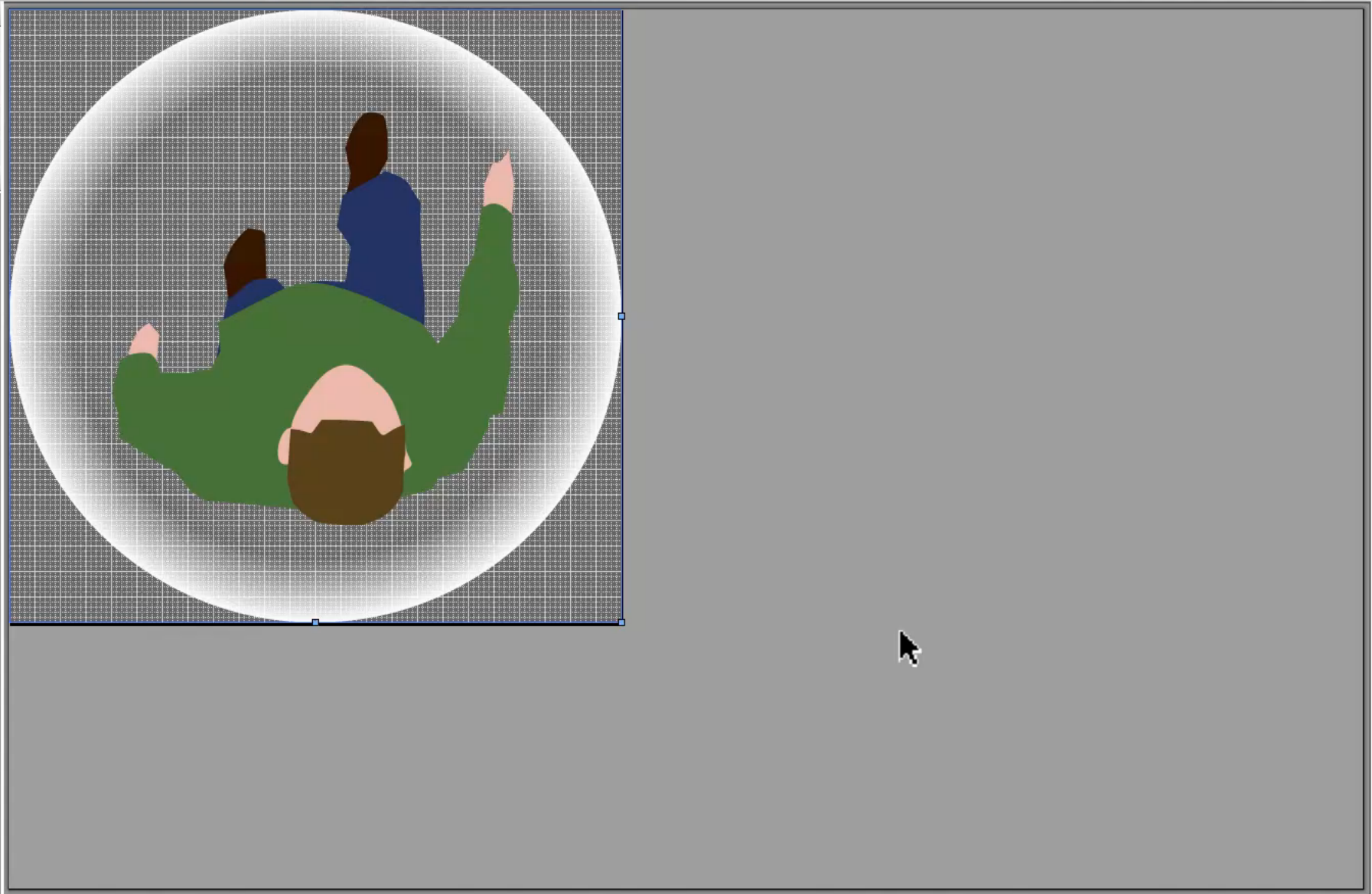
Save and Close 100%

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

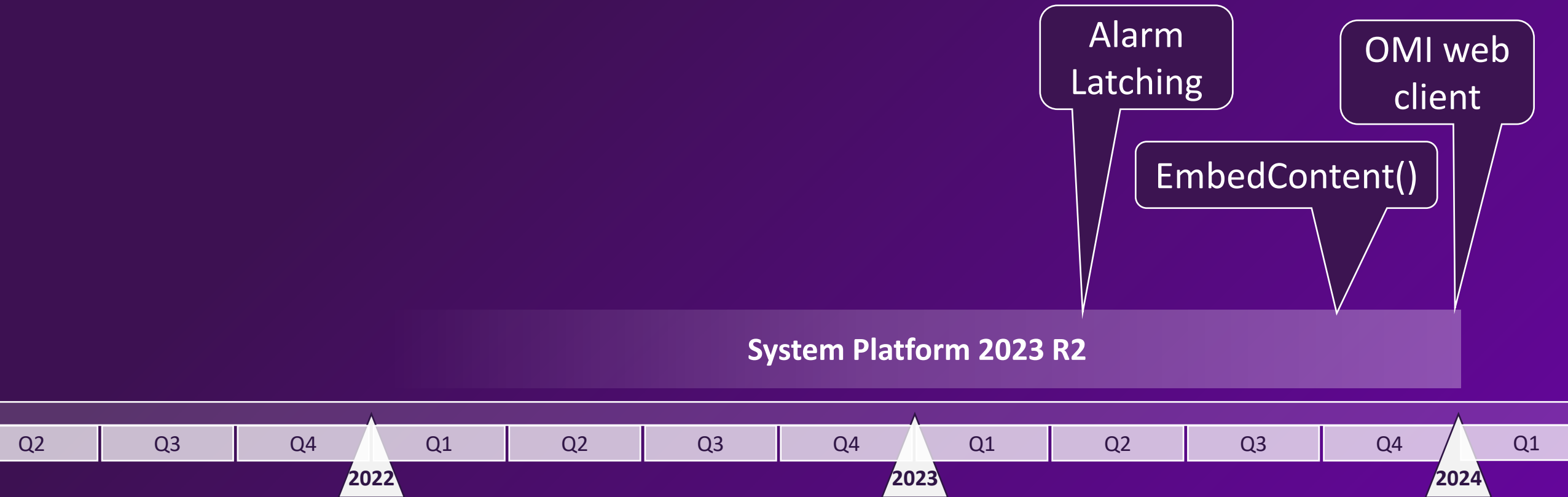
| | |
|-----------------------|---------------------|
| ContentType | None |
| FaceplateMode | False |
| MultiplePopupsAllowed | True |
| Scripts | (Collection) |
| ZoomPercent | 100 |
| ZoomCenterX | 0 |
| ZoomCenterY | 0 |

Custom Properties

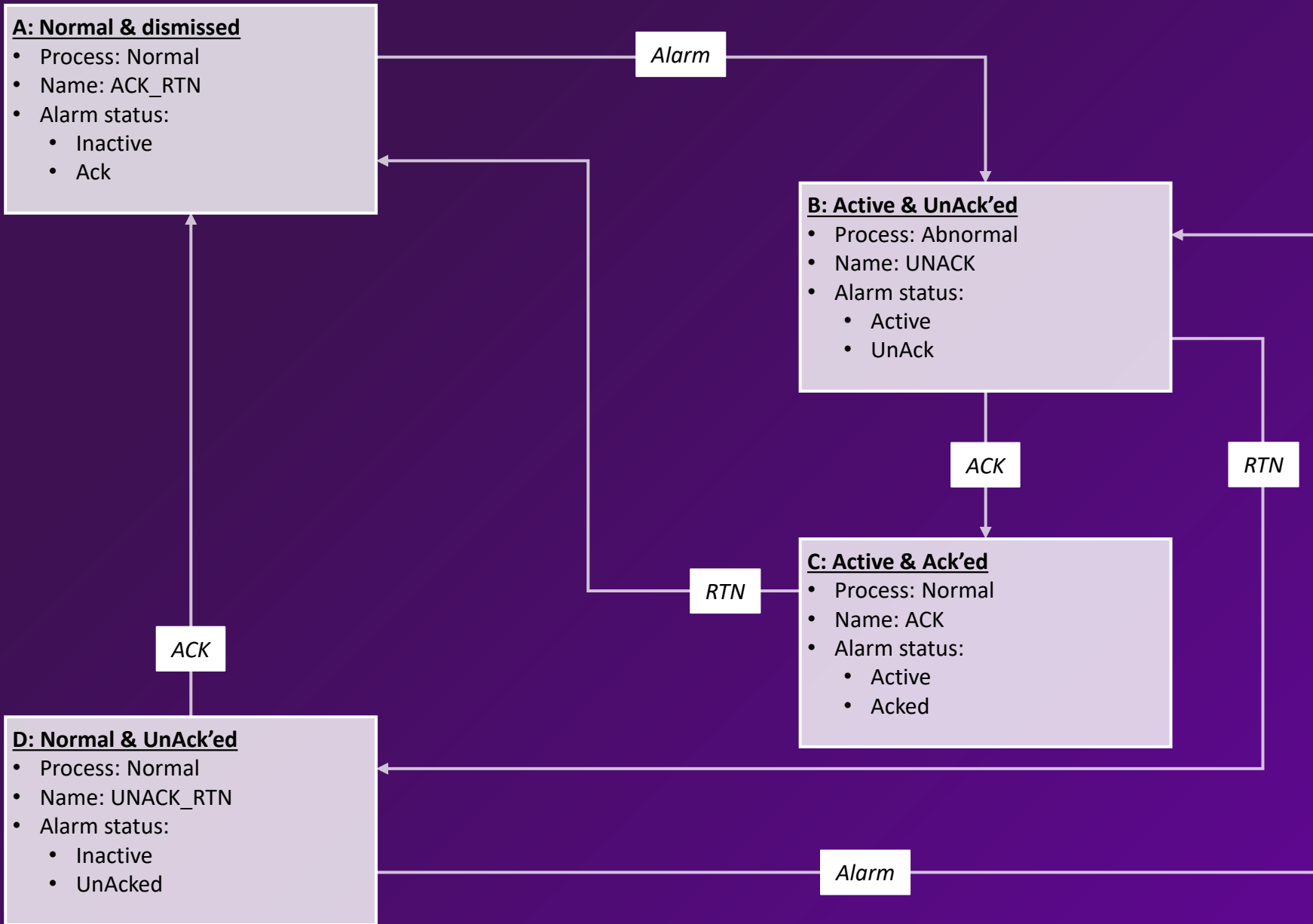
| | |
|------------------|----------------------|
| CustomProperties | 11 Properties |
| Direction | 0 |
| HairColour | Chestnut Brown |
| ShirtColour | Forest Green |
| ShoeColour | Chocolate Brown |
| TrousersColour | Navy Blue |
| SkinTone | Light Tan |
| Identity | |
| SelectedContent | Not me |
| PosX | 0 |
| PosY | 0 |
| PossieFlash | False |

ShoeColour
Chocolate Brown...

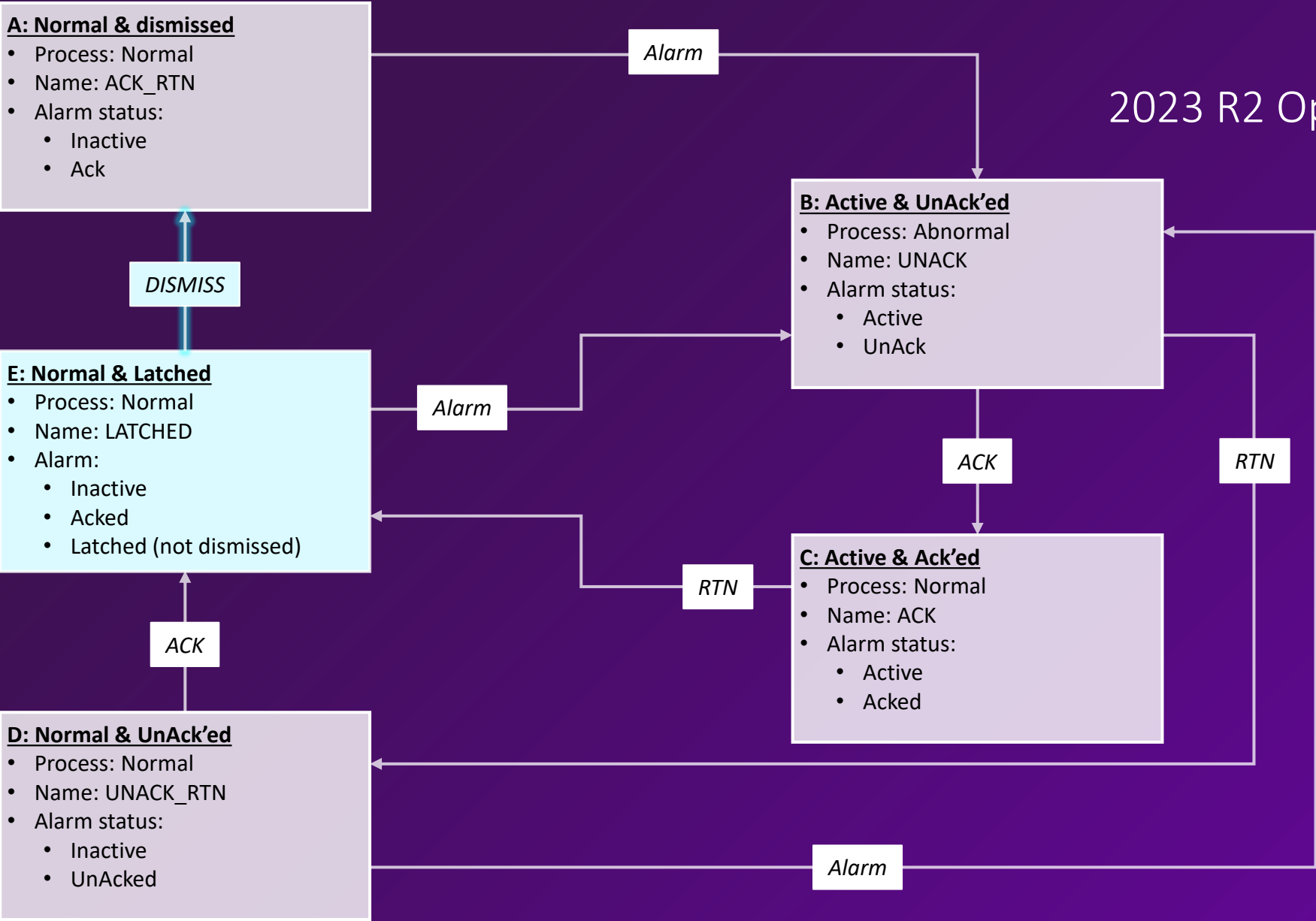
System Platform 2023 R2



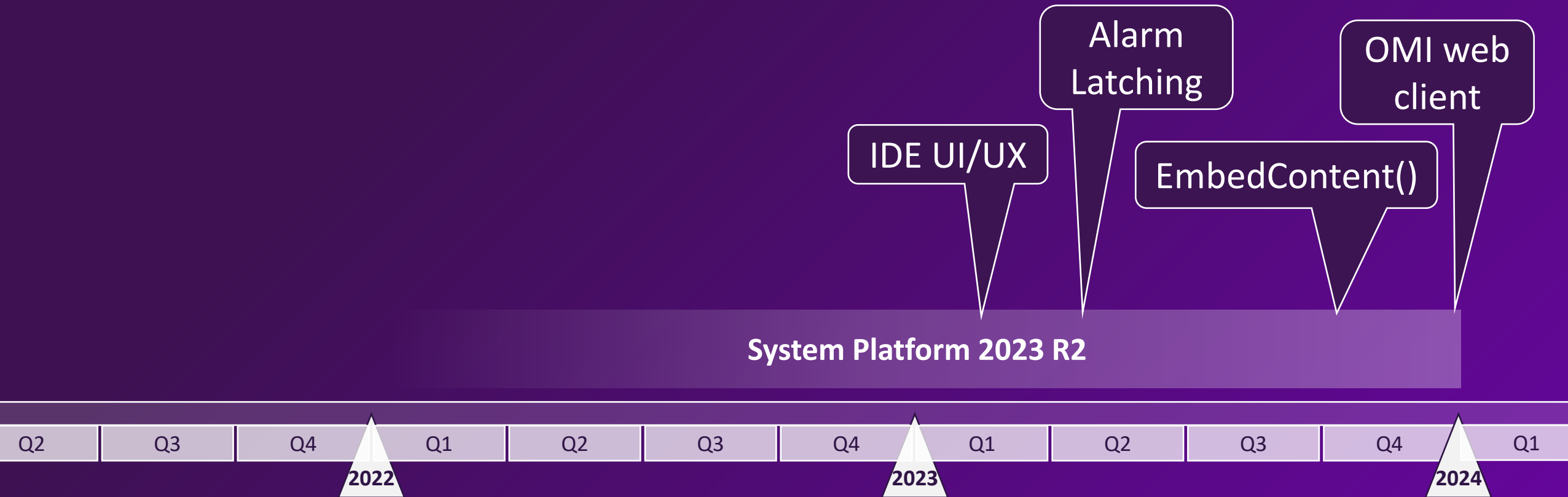
Pre-2023 R2



2023 R2 Optional LATCH state



System Platform 2023 R2



Open

Rename Duplicate Properties... Tagname dictionary Selected

Alias name... Contained name... Delete Edit Import Export

Instance Screen Namespace Deploy... Check-in Save Save All Find... Assign To... Unassign Set as default Upload changes Object Viewer

Template Layout External content Undeploy... Check-in Validate Assign Runtime

Folder Graphics Create Deploy Check-in Save Find Assign Runtime

Templates

Search

Serenity

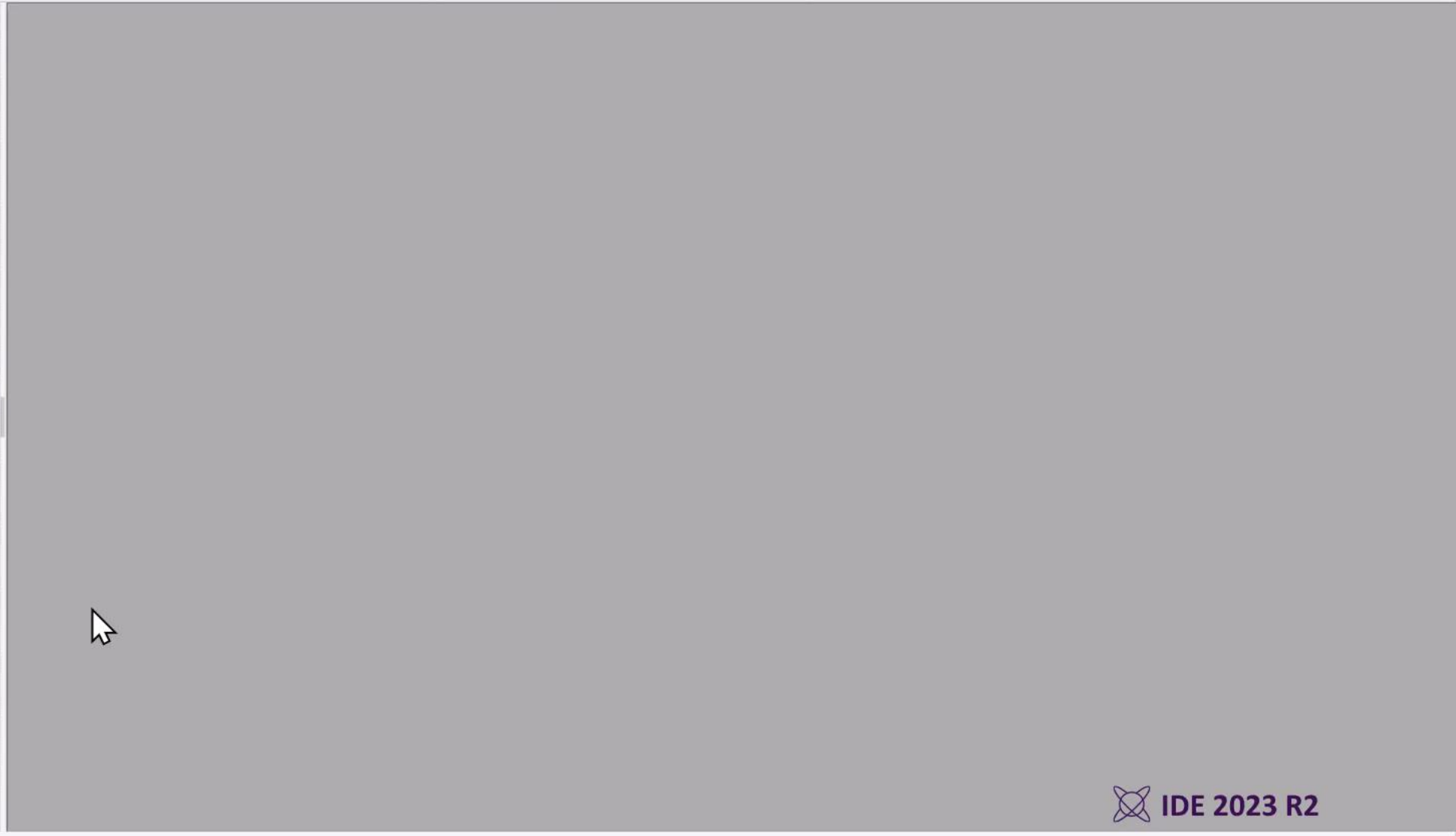
Templates Visualization

Model - Tagname

Search

Serenity

Model - Tagname Deployment Derivation



Open

Rename Duplicate

Alias name... Properties...

Contained name... Delete

Edit

Import

Export

Instance Screen (x) Namespace

Template Layout External content

Folder Graphics

Create

Deploy... Undeploy...

Deploy

Check-in

Check-in

Save Save All Validate

Save

Find... Find

Assign

Runtime

Templates

Search

PiesangGalaxy

Templates Visualization

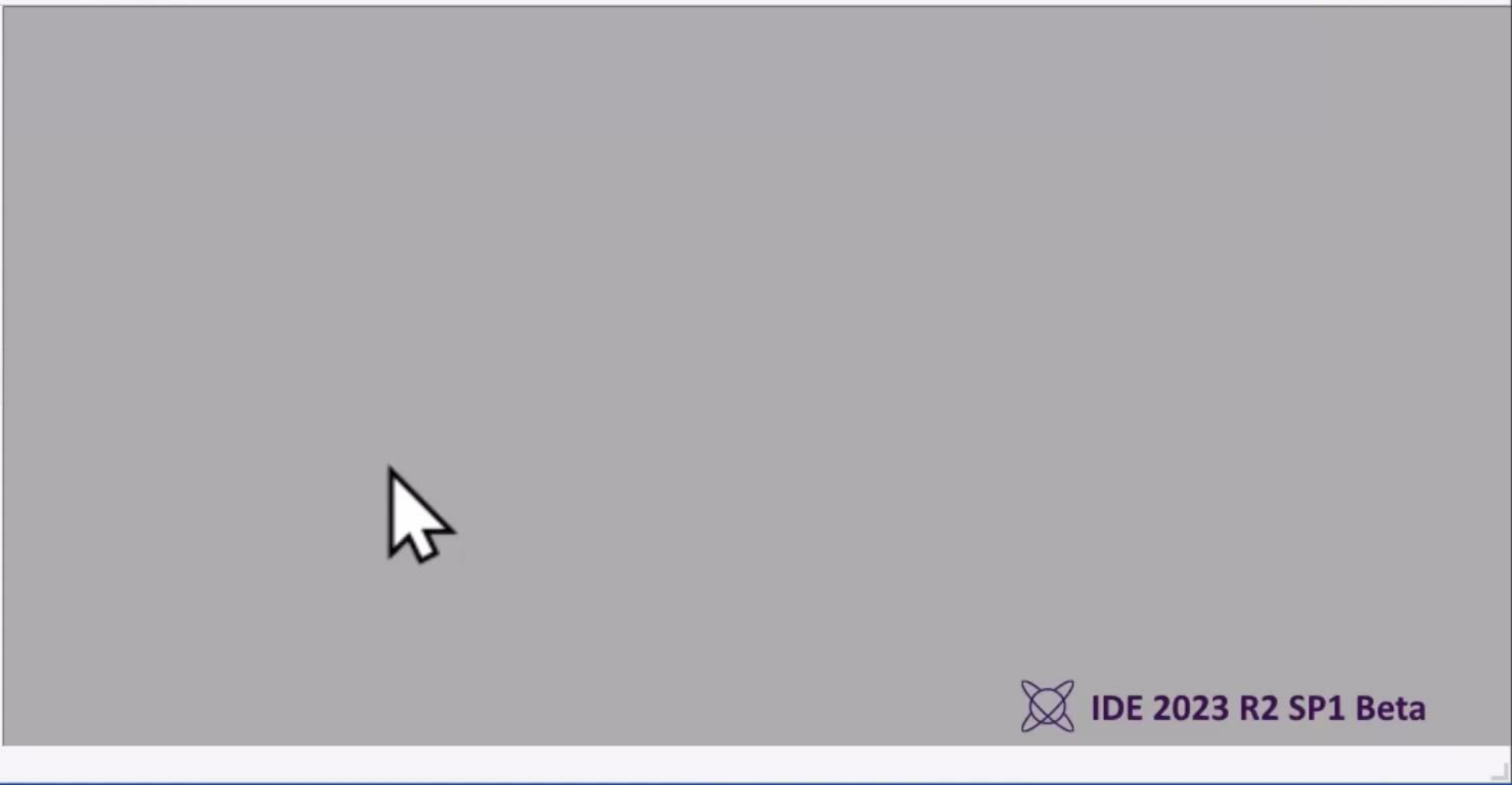
Model - Tagname

Search

PiesangGalaxy

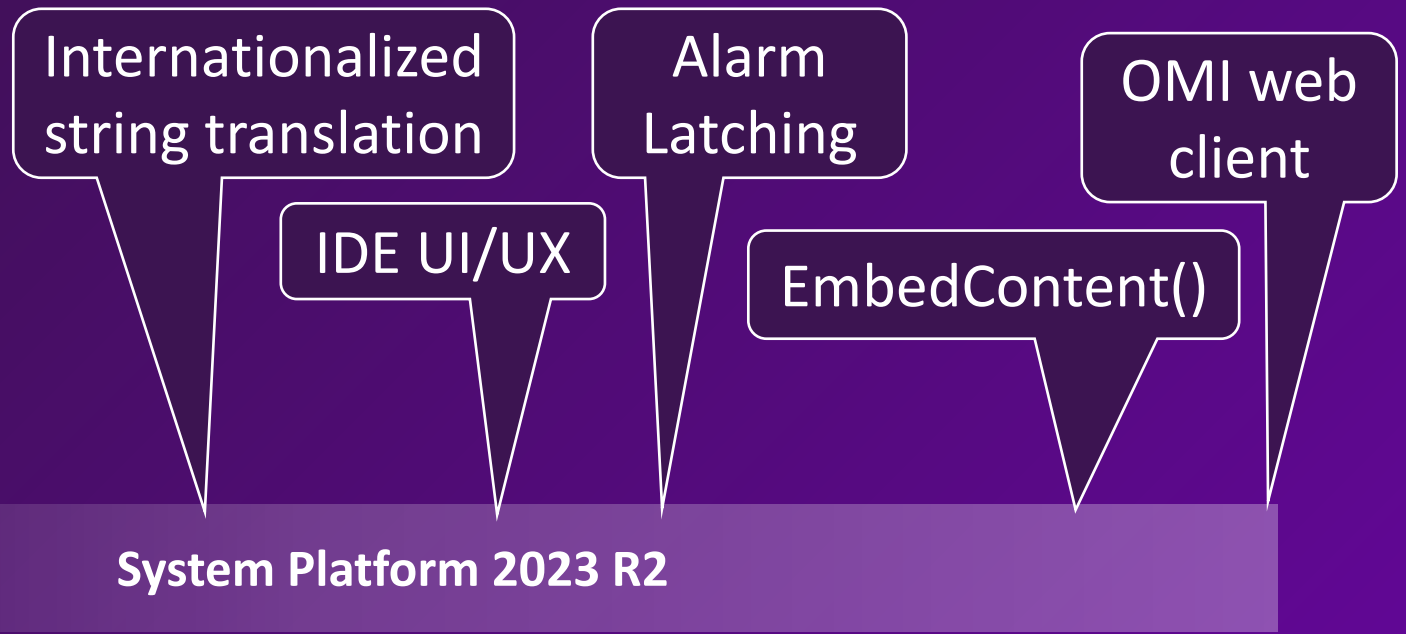
Model - Ta... Deployment Derivation

Ready



 IDE 2023 R2 SP1 Beta

System Platform 2023 R2



Open

Rename Alias name... Contained name...

Duplicate Properties... Delete

Tagname dictionary

Selected

Instance Screen Namespace

Template Layout External content

Folder Graphics

Export

Create

Deploy... Undeploy... Deploy

Check-in Check-in

Save Save All Validate Save

Find... Find... Find

Assign To... Unassign Assign

Set as default

Runtime

Upload changes Object Viewer

Visualization

Search

Serenity

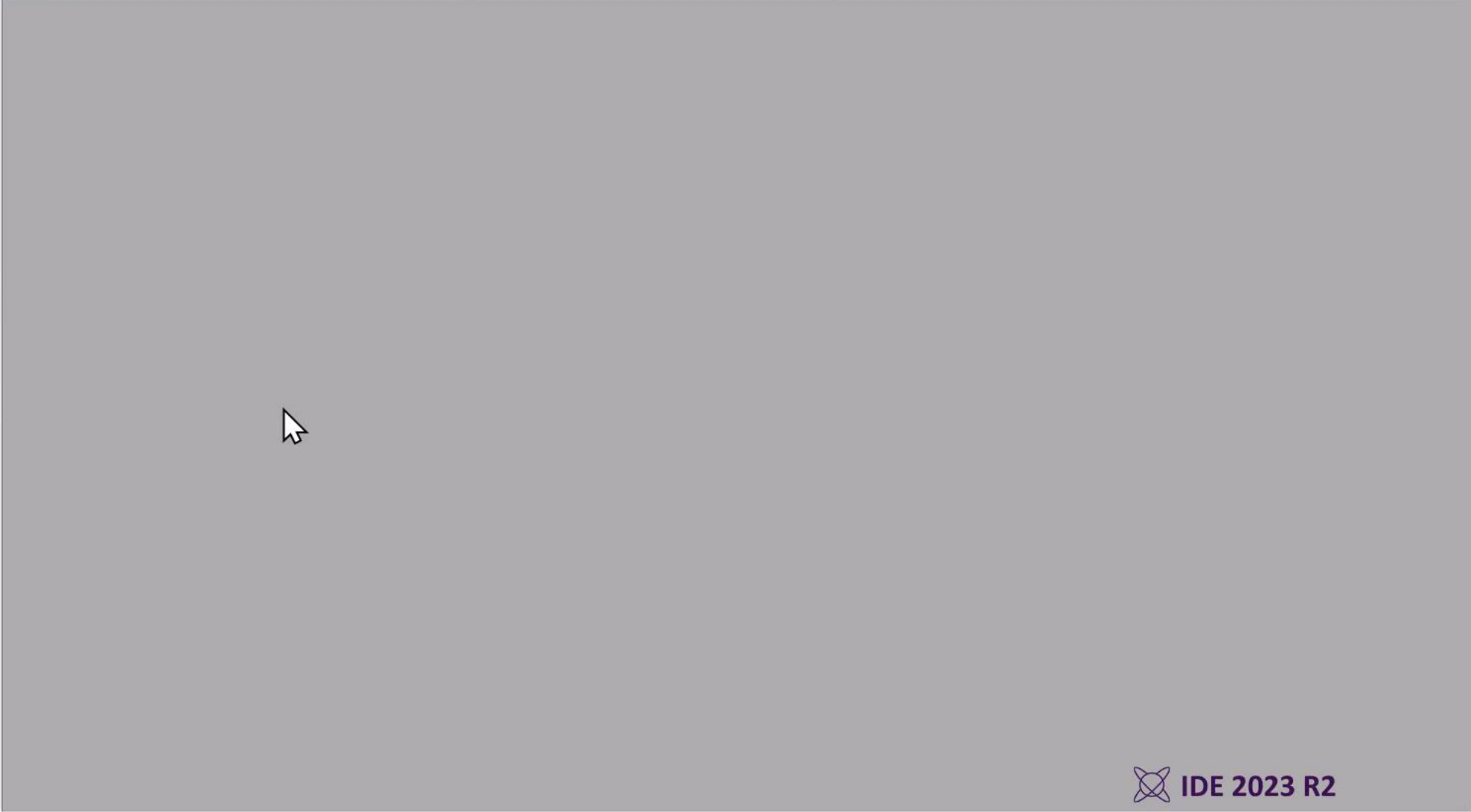
Templates Visualization

Model - Tagname

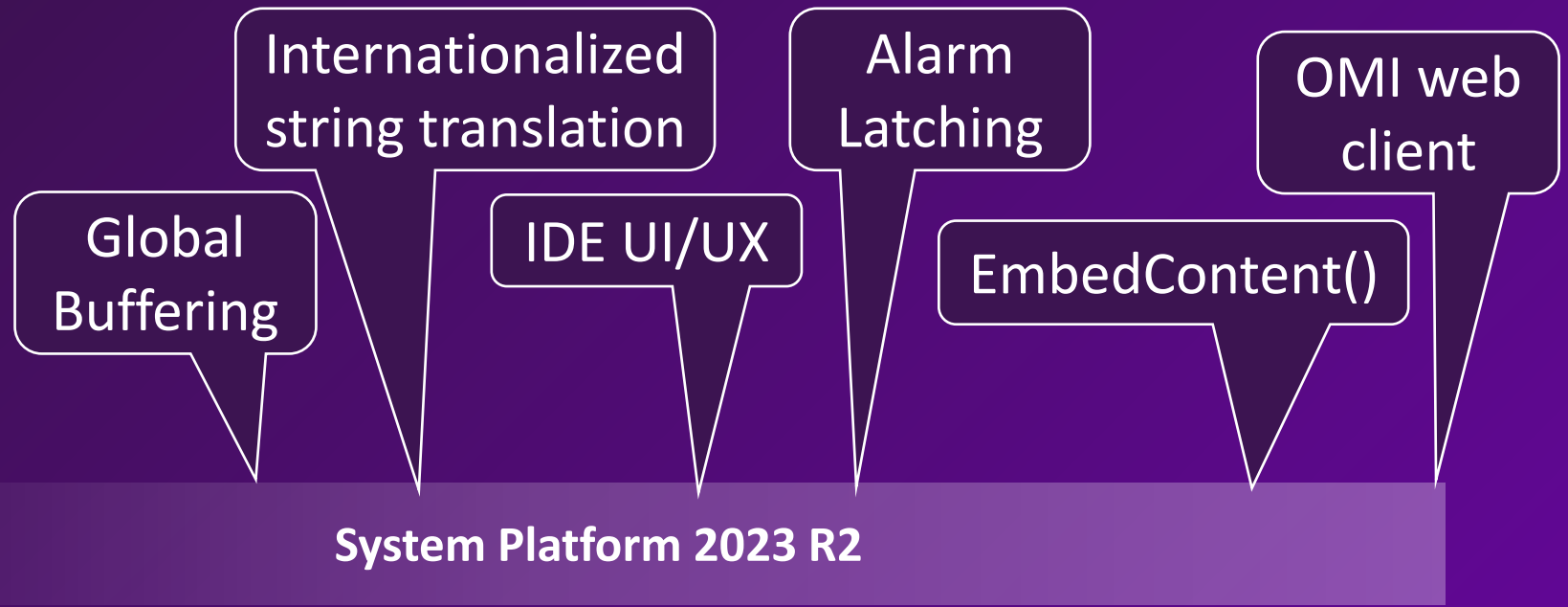
Search

- Highspeed_Area
- Wonder_Power
 - Cooling_Plant [Cooling]
 - Condenser
 - Cooling_Tower
 - Generator_Plant [Generation]
 - Generator
 - Main_Transformer
 - Nuclear_Reactor [Reactor]
 - Control_Rods
 - Core
 - Core_Pressure [Core_Pressure]
 - Core_Temperature [Core_Temperature]
 - Turbine_Plant [Turbine_Plant]
 - Turbine
- Wonder_Water
- WonderCorp

Model - Tagname Deployment Derivation



System Platform 2023 R2



Open: Rename, Duplicate, Alias name..., Contained name..., Tagname dictionary, Selected

Edit: Properties..., Delete

Import: Instance, Screen, Namespace, Deploy..., Check-in, Save, Save All, Validate, Find, Assign To..., Unassign, Set as default, Upload changes, Object Viewer

Export: Template, Layout, External content, Undeploy..., Check-in, Save, Find, Assign

Create: Folder, Graphics, Deploy, Check-in, Save, Find, Assign

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

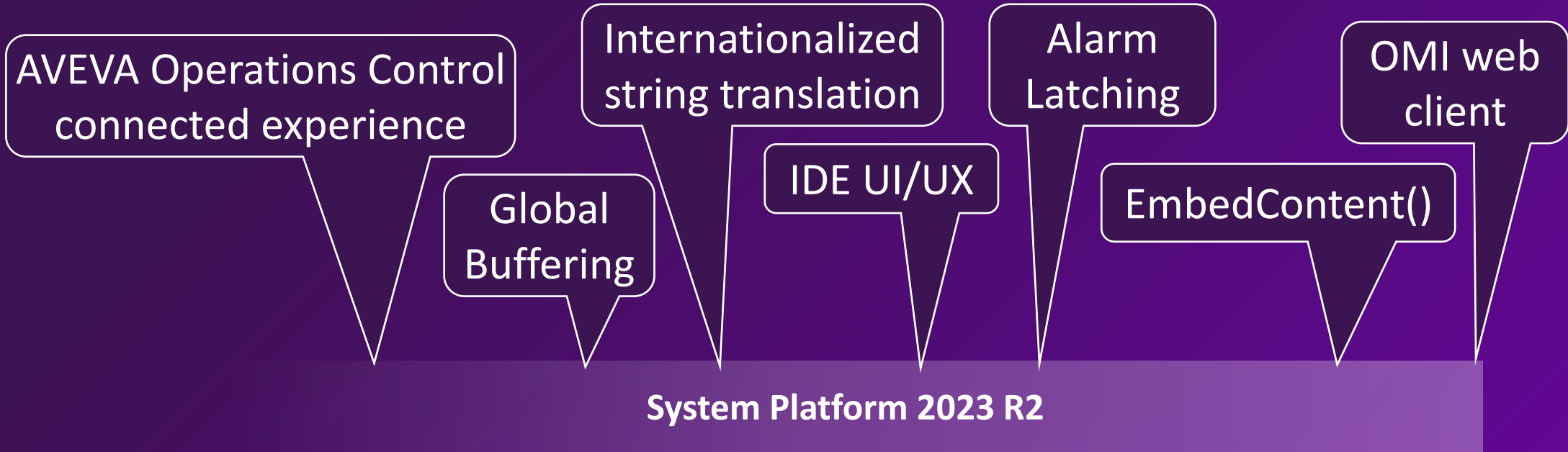
Description:

Data type: InternationalizedString

Writeability: Writeable at config only

Initial value: Circulating water

System Platform 2023 R2



AVEVA™ Operations Control

Hybrid Cloud Platform

Microsoft

On Premise Products



Word



Excel



PowerPoint



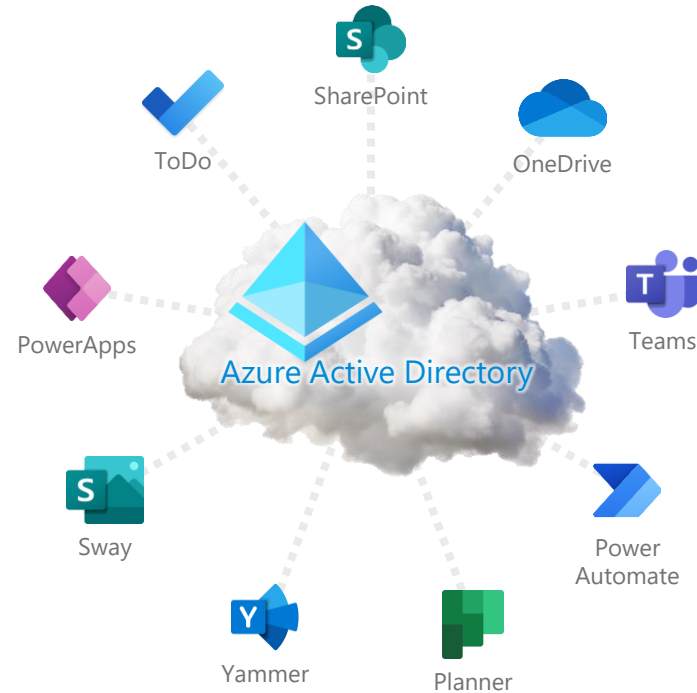
Outlook



OneNote



Power BI



(Office 365 - Microsoft 365)



AVEVA™ Operations Control

Hybrid Cloud Platform

Microsoft



(Office 365 - Microsoft 365)



AVEVA™ Operations Control

Hybrid Cloud Platform

AVEVA

On Premise Products



Edge



InTouch



Plant SCADA



System Platform



Historian



Communications Drivers



Unified Operations Center



System Monitor



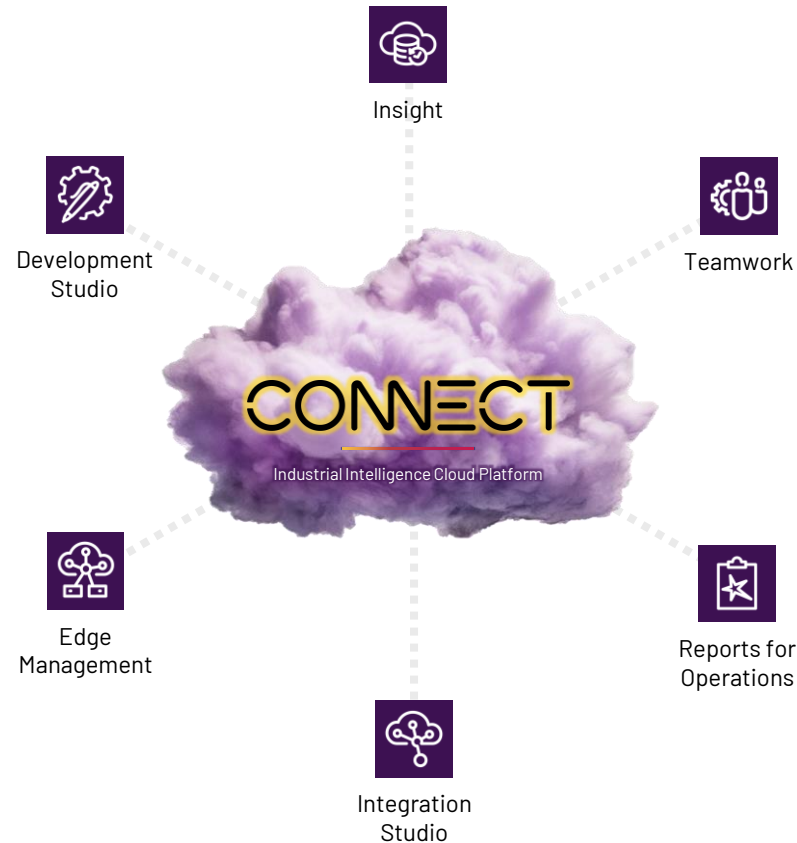
Historian Client



(Office 365-Microsoft 365)



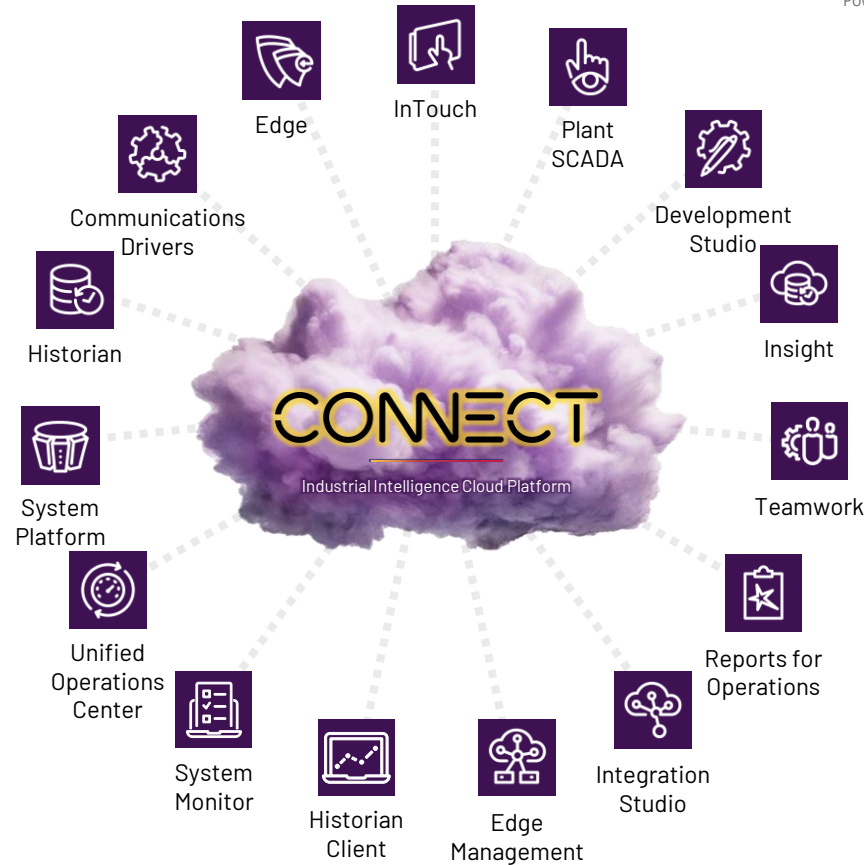
Microsoft



AVEVA™ Operations Control Hybrid Cloud Platform

AVEVA

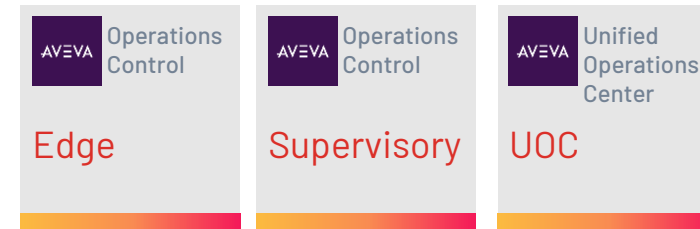
On Premise Products



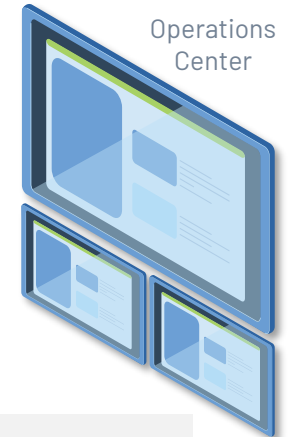
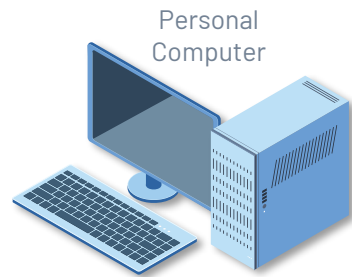
(Office 365-Microsoft 365)



Microsoft

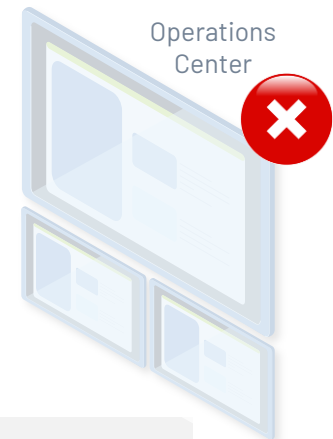


Connecting workers



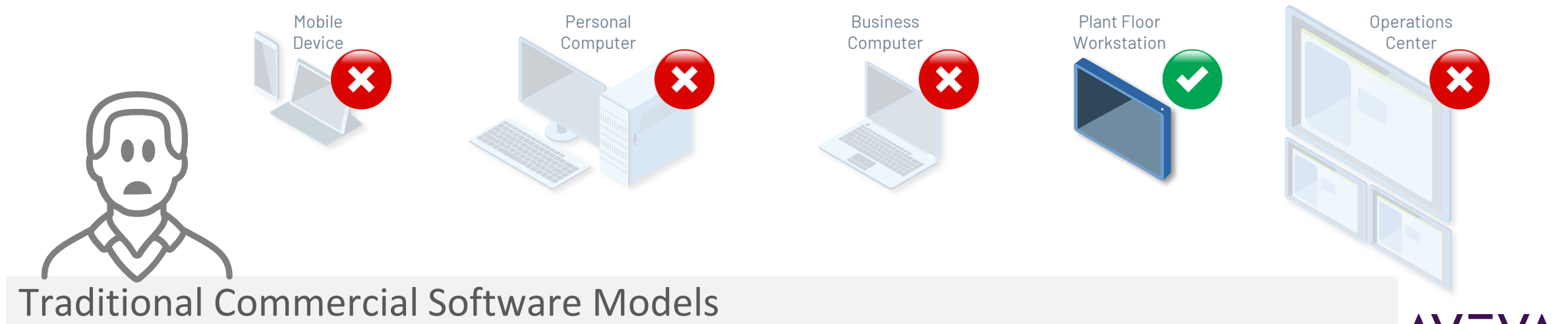
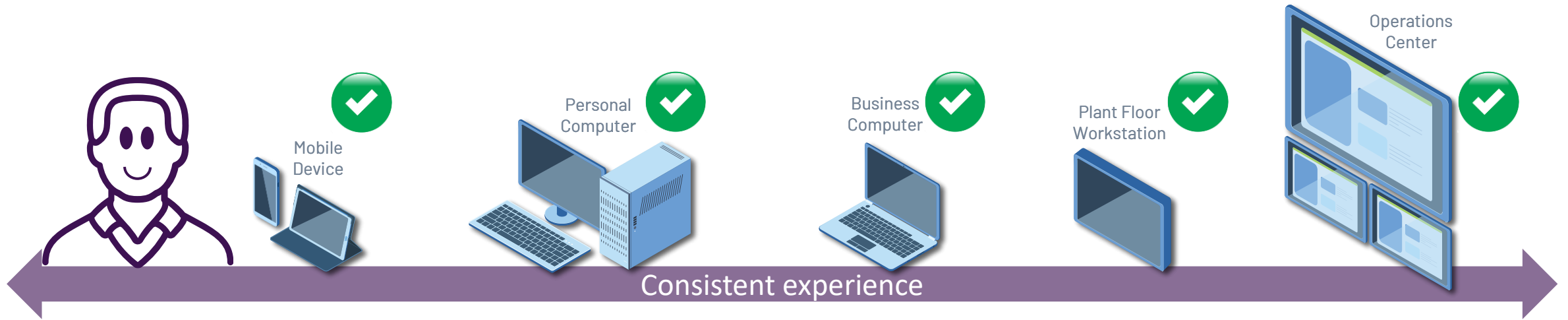
Traditional Commercial Software Models

Connecting workers



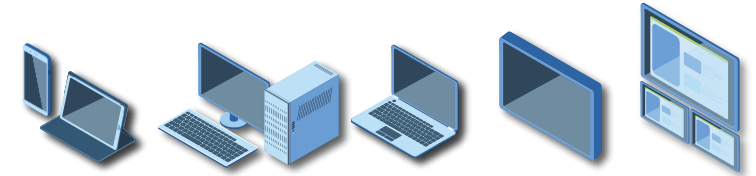
Traditional Commercial Software Models

Connecting workers



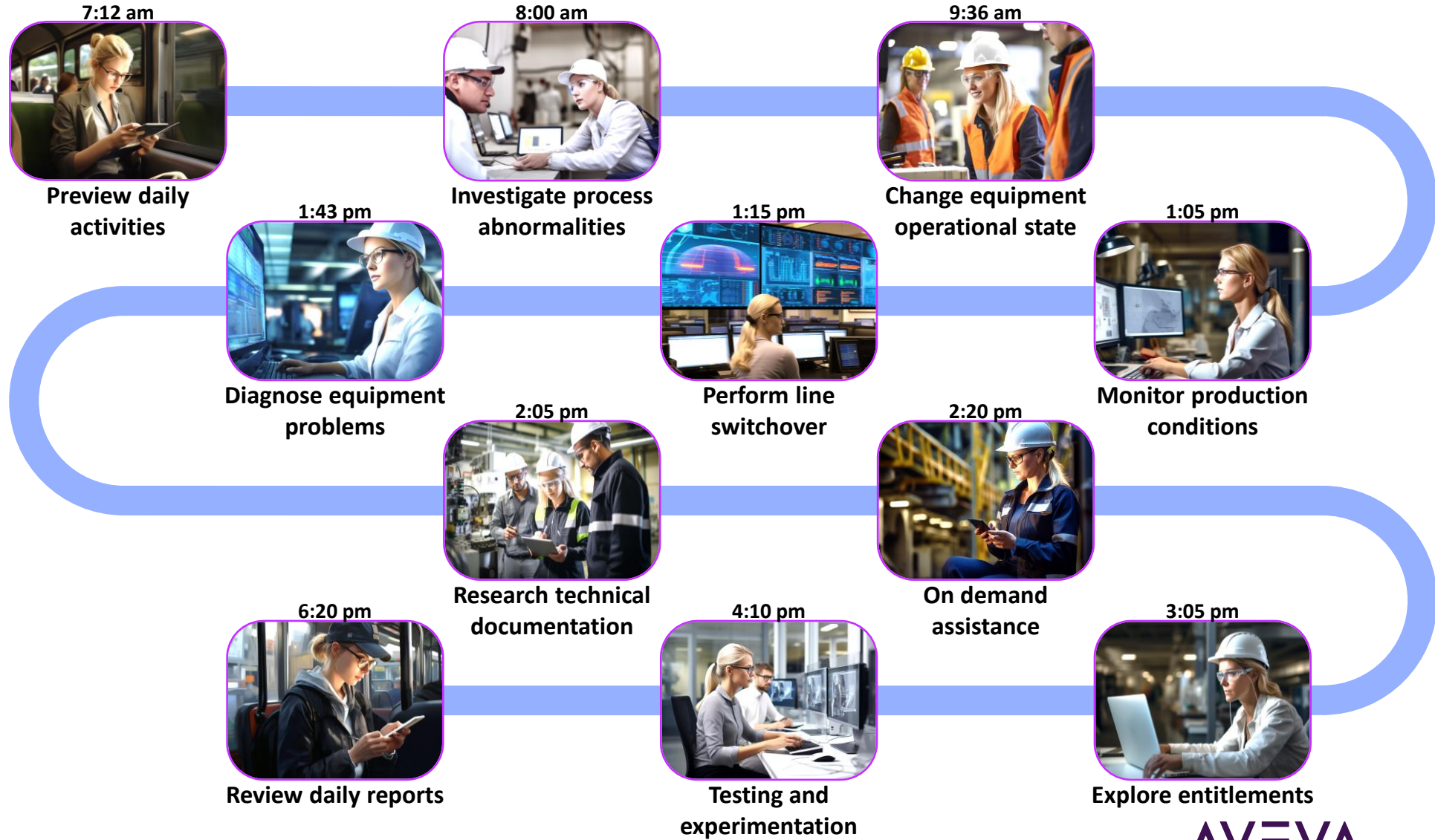
Traditional Commercial Software Models

Extending use cases



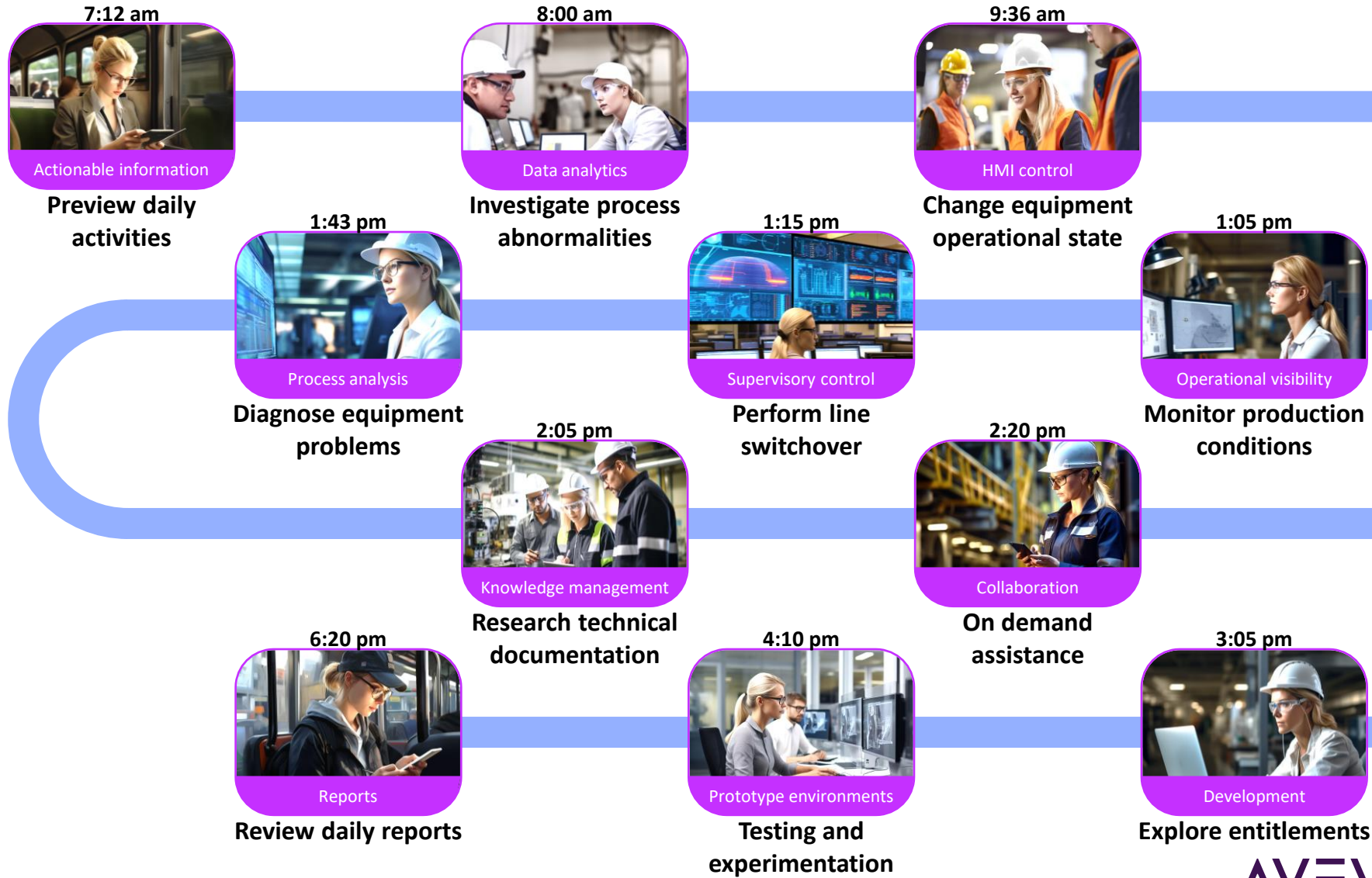
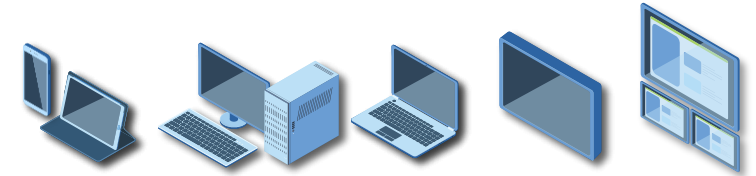
User-centric software

- Actionable information
- Data analysis
- HMI control
- Operational visibility
- Supervisory control
- Process analysis
- Knowledge management
- Collaboration
- Development
- Prototype environments
- Reports



Extending use cases

User-centric software



Extending use cases

User-centric software





Recycle Bin



AVEVA OMI Application Manager



Network Shortcuts



Unity Hub



Cisco Secure Endpoint

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 Power

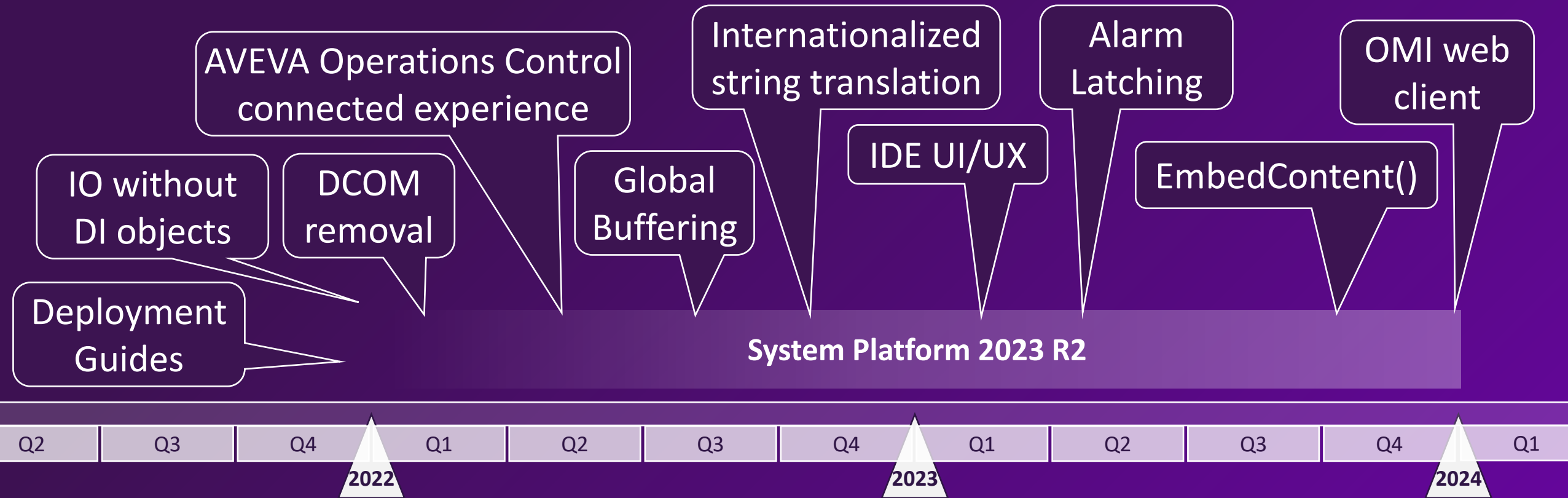


Search



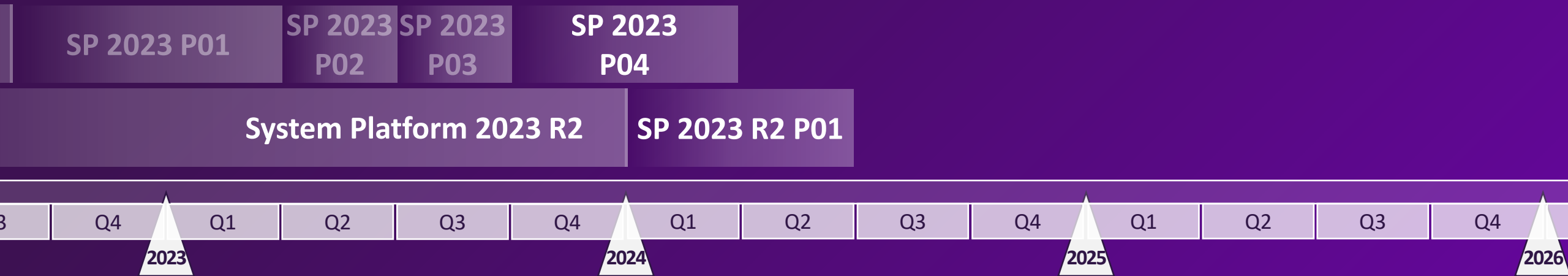
6:07 PM 10/16/2023

System Platform 2023 R2

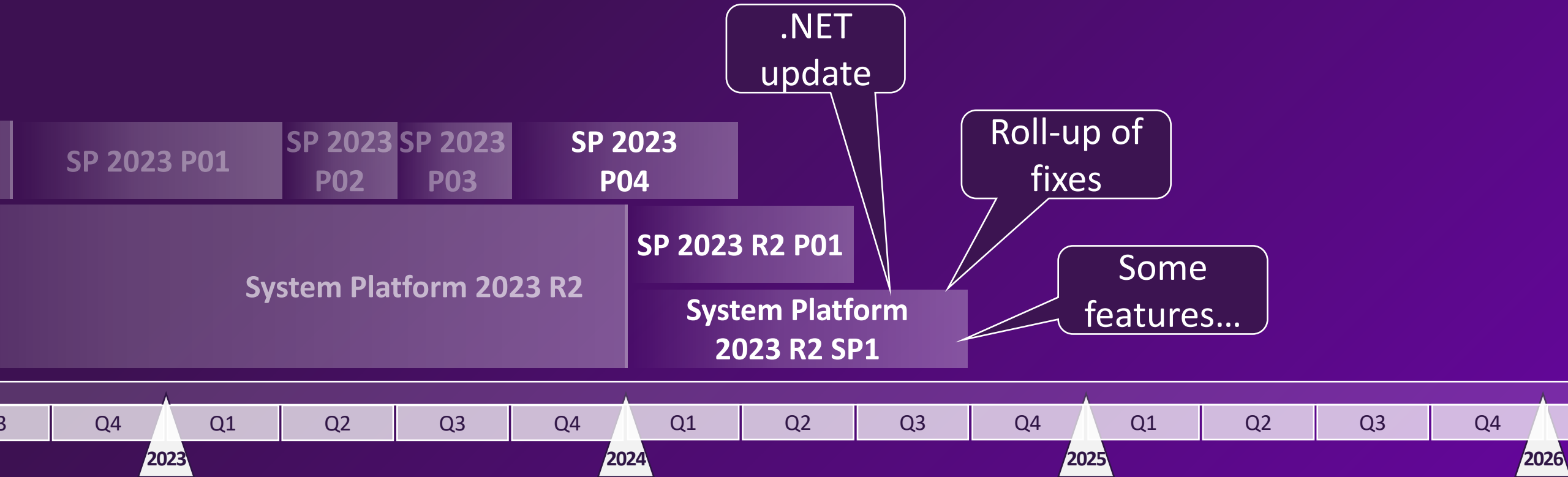


<https://docs.AVEVA.com>

Fresh of the griddle



Around the corner



Help us help you!

<https://products.feedback.aveva.com/>

The screenshot shows the AVEVA Products Feedback Portal. The page title is "AVEVA™ Products Feedback Portal" and it includes a welcome message: "Welcome to our new feedback site! We created this site to hear your enhancement ideas, suggestions and feedback about AVEVA products and services. All of the feedback you share here is monitored and reviewed by the AVEVA product managers. To start, select the product of your interest in the left column. Then take a look at the ideas in the list below and VOTE for your favorite ideas submitted by other users. POST your own idea if it hasn't been suggested yet. Include COMMENTS and share relevant business case details that will help our product team get more information on the suggestion. Please note that your ideas will first be moderated before they are made visible to other users of this portal. This page is for feedback for specific AVEVA solutions, excluding PI Systems and Data Hub. For links to these other feedback portals, please see the tab RESOURCES below."

The main content area is titled "Application Server & OMI" and displays a list of ideas. The ideas are sorted by "Trending" and filtered by "Status". The list shows 11 of 490 ideas. The first idea is "Properly handling default values and locks in the IDE" with 6 votes. The second idea is "Improve IDE UI/UX" with 5 votes. The third idea is "Support Access level-based security in OMI Web client" with 4 votes. The fourth idea is "Graphic export/import to/from XML" with 3 votes.

| Category | Count |
|---------------------------|-------|
| Advanced Analytics | 0 |
| AIC - Vision AI Assistant | 2 |
| APC | 11 |
| Application Server & OMI | 14 |
| Aspect | 4 |
| Component | 14 |
| Commercial Advisor | 0 |
| Device Integration | 13 |
| Edge | 0 |
| Enterprise SCADA HMI | 2 |
| Enterprise SCADA Server | 64 |
| Gas Day Advisor | 0 |
| Historian & Client | 1 |

| Votes | Idea Title | Description | Author | Time | Category | Comments |
|-------|---|--|---------------|-------------|--|----------|
| 6 | Properly handling default values and locks in the IDE | Currently users use the lock functionality to set a default value for an attribute but this locks the value at instance level and at every template level in between the configured template and the instances. It means that users need to go back and... | Ernst van Wyk | 23 days ago | Application Server & OMI / IDE | 2 |
| 5 | Improve IDE UI/UX | Refine the IDE UI/UX Indicate deployed galaxy on IDE backstage Put ellipse in the middle for treeview names in IDE Complete IDE filtering (Aloow users to filter on status, warnings and errors) Revisit icons and colours with UI/UX team to improve s... | Ernst van Wyk | 23 days ago | Application Server & OMI / IDE | 0 |
| 4 | Support Access level-based security in OMI Web client | Support Access level-based security in OMI Web client | Ernst van Wyk | 23 days ago | Application Server & OMI / OMI web runtime | 1 |
| 3 | Graphic export/import to/from XML | This feature has two parts: Customers request maturity of capabilities of the ExportGraphicsToXML API. Customers need to a UI to be able to export/import graphics using the IDE (removing the need for GR Access to do this) The reasons for these req... | Ernst van Wyk | 23 days ago | Application Server & OMI / Development / IDE / Industrial Graphics | 0 |

Help us help you!

<https://products.feedback.aveva.com/>

The screenshot displays the Aveva Feedback Portal interface. At the top, there are tabs for 'IDEAS' and 'RESOURCES', and a 'Log in / Sign up' link. A red arrow points to the 'Log in / Sign up' link. On the left sidebar, there is a '+ ADD A NEW IDEA' button and a 'FILTER BY CATEGORY' section. The 'Application Server & OMI' category is selected and highlighted with a red arrow. Below it, a list of categories is shown with their respective counts. The main content area displays a list of ideas under the 'Application Server & OMI' category. Each idea has a 'VOTE' button, a title, a description, and a user profile with a timestamp. Red arrows point to the 'VOTE' buttons for the first three ideas.

| Category | Count |
|---------------------------|-------|
| Advanced Analytics | 0 |
| AIC - Vision AI Assistant | 2 |
| APC | 11 |
| Application Server & OMI | 11 |
| Aspect | 4 |
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| Commercial Advisor | 0 |
| Device Integration | 13 |
| Edge | 0 |
| Enterprise SCADA HMI | 2 |
| Enterprise SCADA Server | 64 |
| Gas Day Advisor | 0 |
| Historian & Client | 1 |

Application Server & OMI Sort by: Trending Filter by: Status Showing 11 of 490

- 6** **Properly handling default values and locks in the IDE**
Currently users use the lock functionality to set a default value for an attribute but this locks the value at instance level and at every template level in between the configured template and the instances. It means that users need to go back and...
Ernst van Wyk 23 days ago in Application Server & OMI / IDE 2
- 5** **Improve IDE UI/UX**
Refine the IDE UI/UX Indicate deployed galaxy on IDE backstage Put ellipse in the middle for treeview names in IDE Complete IDE filtering (Allow users to filter on status, warnings and errors) Revisit icons and colours with UI/UX team to improve s...
Ernst van Wyk 23 days ago in Application Server & OMI / IDE 0
- 4** **Support Access level-based security in OMI Web client**
Support Access level-based security in OMI Web client
Ernst van Wyk 23 days ago in Application Server & OMI / OMI web runtime 1
- 3** **Graphic export/import to/from XML**
This feature has two parts: Customers request maturity of capabilities of the ExportGraphicsToXML API. Customers need to a UI to be able to export/import graphics using the IDE (removing the need for GR Access to do this) The reasons for these req...
Ernst van Wyk 23 days ago in Application Server & OMI / Development / IDE / Industrial Graphics 0

Help us help you!

Add idea

Choose a product for this idea

Application Server & OMI

Your idea Required

Double Product Managers salaries

Consider voting for one of these similar ideas:

- Triple Product Manager salaries
- Fire all Product managers immediately Unlikely to implement
- Increase all product manager salaries

Please add more details

Paragraph **B** *I* U **A**

Why is it useful, who would benefit from it, how should it work?

Attach files

Choose a category for this idea

Tell us who you are Required

Enter email (name@example.com)

You agree to our [Terms of service](#) by using the ideas portal. The application may send you email updates on ideas you have submitted. You can opt-out from the emails at any time. Read our [Privacy policy](#) to learn more.

ADD IDEA

| IDEAS | RESOURCES |
|------------------------------|-----------|
| + ADD A NEW IDEA | |
| ▼ FILTER BY CATEGORY | |
| Advanced Analytics | 0 |
| AIC - Vision AI Assistant | 2 |
| > APC | 11 |
| ▼ Application Server & OMI X | |
| > Aspect | 4 |
| > Component ? | 14 |
| Commercial Advisor | 0 |
| Device Integration | 13 |
| > Edge | 0 |
| > Enterprise SCADA HMI | 2 |
| > Enterprise SCADA Server | 64 |
| > Gas Day Advisor | 0 |
| > Historian & Client | 1 |

Help us help you!

- Aspect
 - Alarming
 - Compatibility
 - Configuration
 - Development
 - Device Integration
 - Diagnostics
 - History
 - Installation
 - Localization
 - Other
 - Scripting
 - Security
 - Visualization
- Component
 - Application Server Runtime
 - AVEVA Help
 - Configurator
 - Documentation

Add idea

Choose a product for this idea

Application Server & OMI

Your idea Required

Double Product Managers salaries

Consider voting for one of these similar ideas:

- Triple Product Manager salaries
- Fire all Product managers immediately
- Unlikely to implement
- Increase all product manager salaries

Please add more details

Paragraph B I U A [List] [List] +

Why is it useful, who would benefit from it, how should it work?

Attach files

Choose a category for this idea

Tell us who you are Required

Enter email (name@example.com)

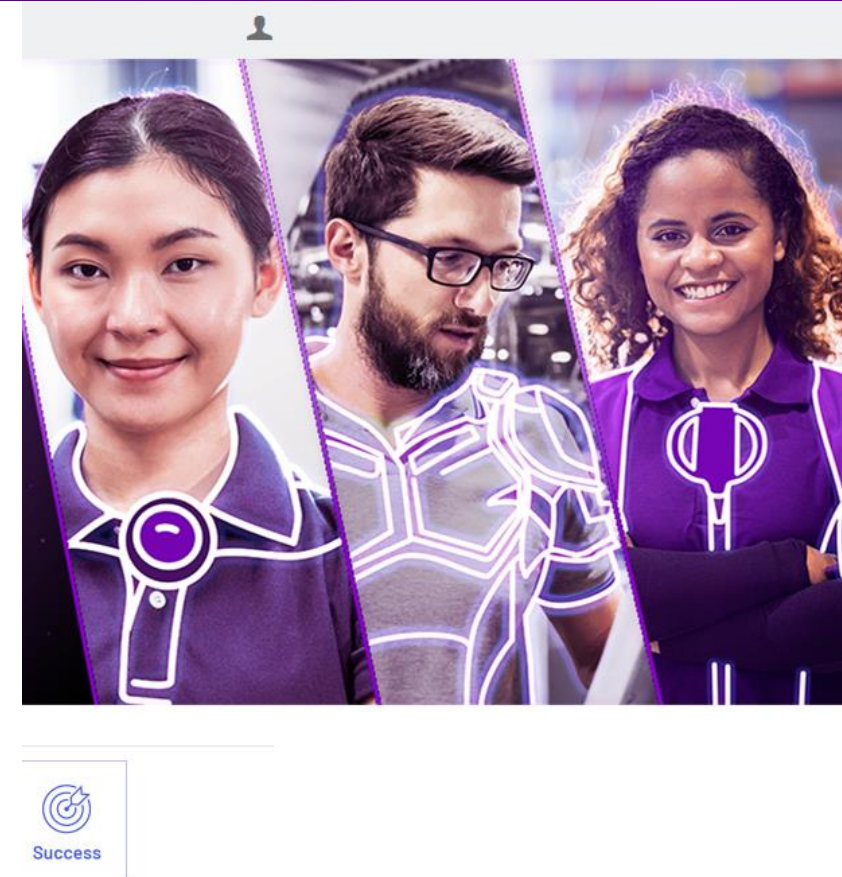
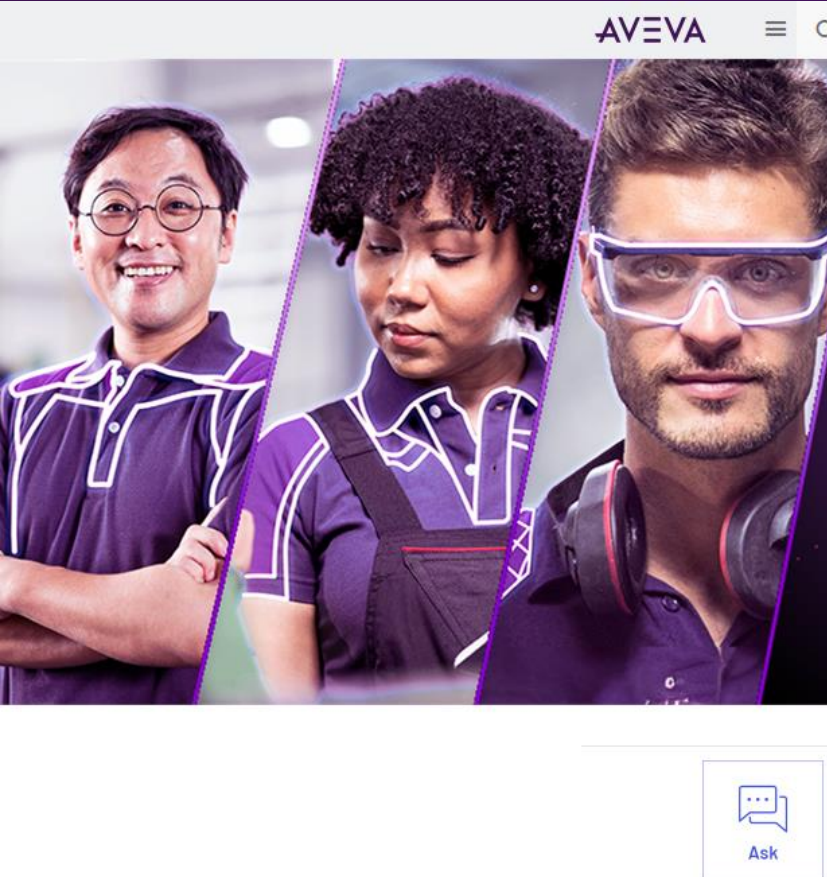
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ADD IDEA

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