AVEVAWORLD
PARIS

16 OCTOBER 2024

AVEVA™ System Platform

Deep dive into latest enhancements

Ernst van Wyk

System Platform 2023

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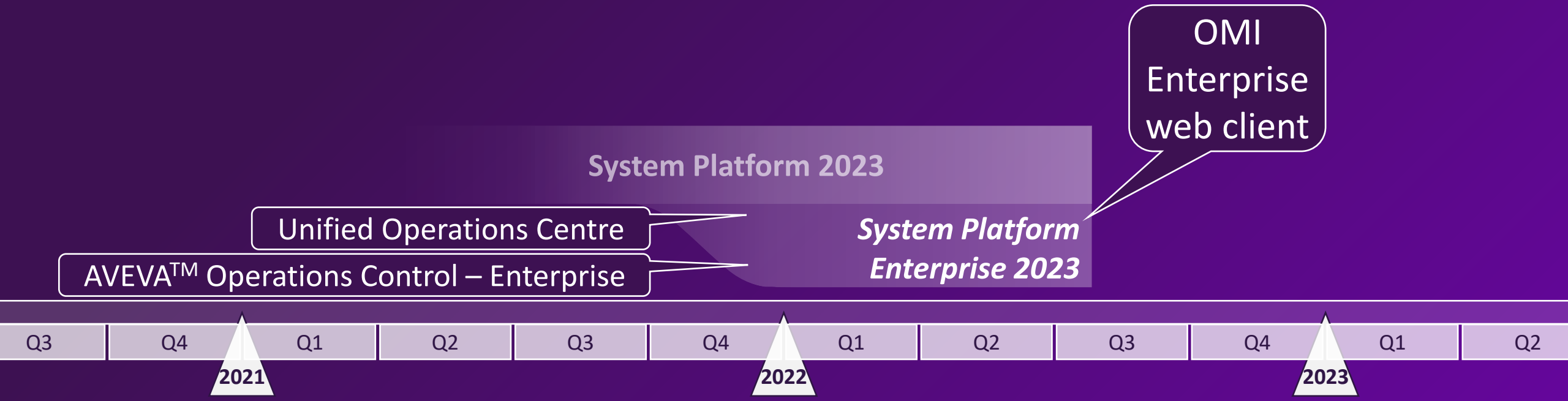
System Platform Enterprise 2023



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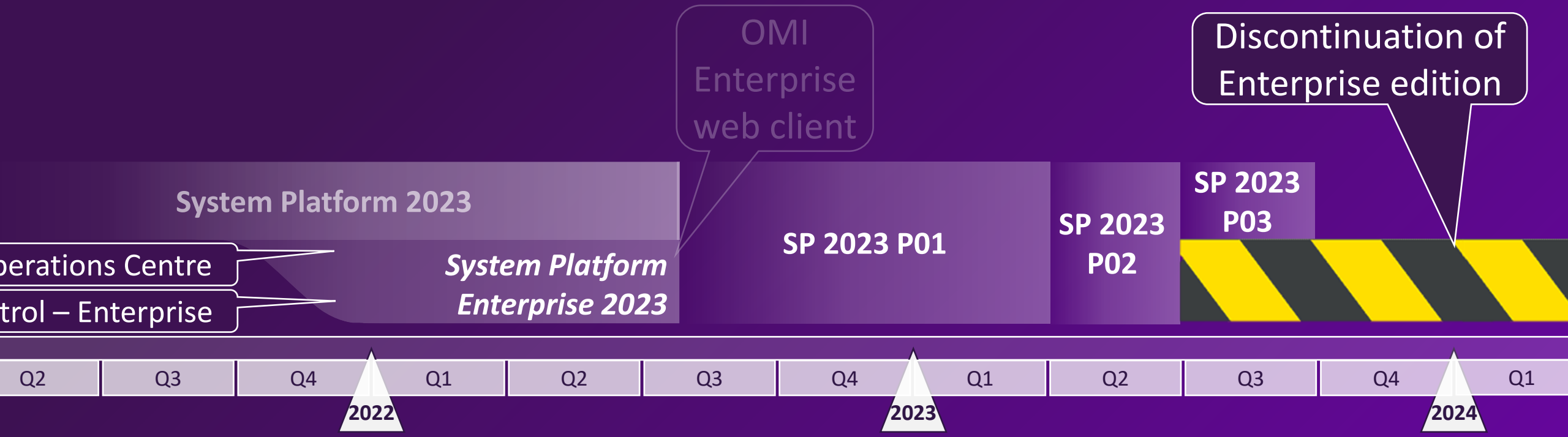
Patches



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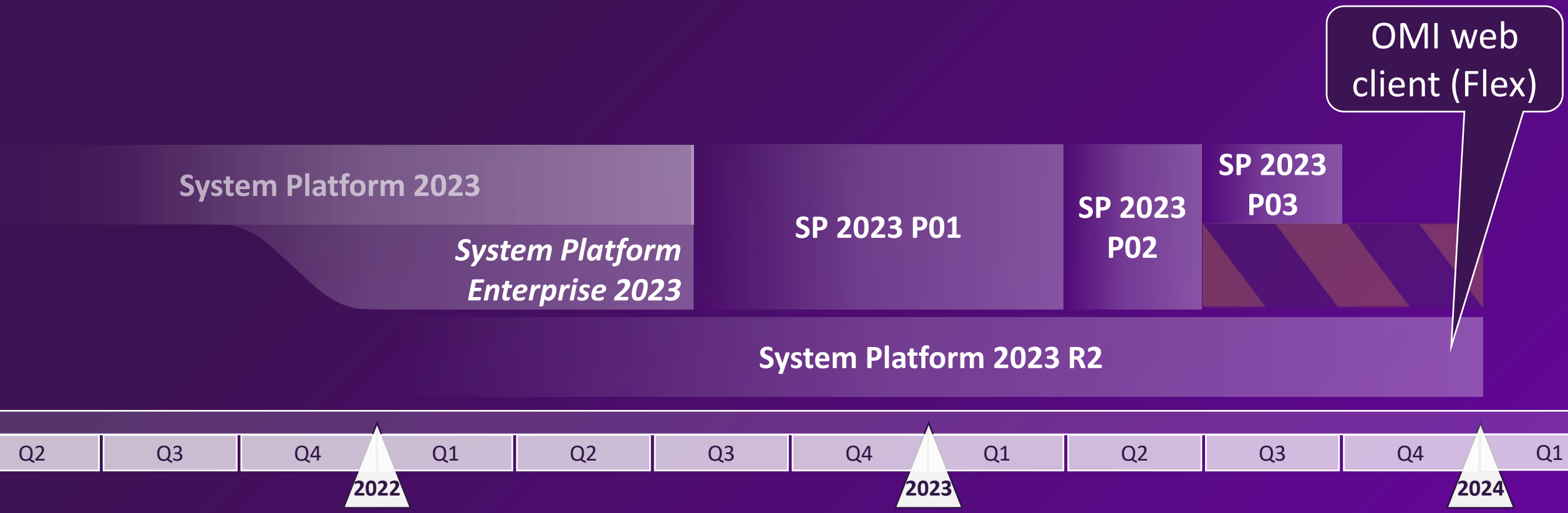
System Platform 2023 R2



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OMI in a browser

Browser

Operations Management Interface

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

Web Widgets | OMI Apps | Visualization

Industrial Graphics

JavaScript & HTML5

Won't work in a Web browser

.NET

3rd Party Software/Systems

System Platform

Controllers

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AVEVA

OMI in a browser

Browser

Operations Management Interface

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

Web Widgets | OMI Apps | Visualization

2 parts

Additional Web Widgets

3rd Party Software/Systems

System Platform

Controllers

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AVEVA

OMI web client in browser!

OMI Web client

Operations Management Interface

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

Web Widgets | OMI Apps | Visualization Logic | Draw

2 parts

3rd Party Software/Systems

System Platform

Controllers

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AVEVA

OMI web client in browser!

OMI Web client

ViewApp Framework

Web Widgets

Draw

Web-friendly Layouts, Navigation, Auto-fill etc.

Scalable

SP 2023 – Enterprise OMI web client

Operations Management Interface

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

Web Widgets

OMI Apps

Visualization Logic

Draw

Process/User

3rd Party Software/Systems

System Platform

Controllers

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AVEVA

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

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AVEVA

2023 R2

OMI Web client

ViewApp Framework

Web Widgets	OMI Apps	Visualization Logic	Draw

SP 2023 R2

Operations Management Interface

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

Web Widgets	OMI Apps	Visualization Logic	Draw

3rd Party Software/Systems

System Platform

Controllers

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AVEVA

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

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AVEVA

Serenity psSolitude DefaultUser

Galaxy | Home | View | Help

Simplified Layout

Open | Rename | Alias name... | Contained name... | Duplicate | Properties... | Delete — Edit

Tagname dictionary — Import

Selected — Export

Instance | Template | Folder | Screen | Layout | Graphics | Namespace | External content — Create

Deploy... | Undeploy... — Deploy

Check-in — Check-in

Save | Save All | Validate — Save

Find... — Find

Assign To... | Unassign | Set as default — Assign

Upload changes | Object Viewer — 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

IDE 2023 R2

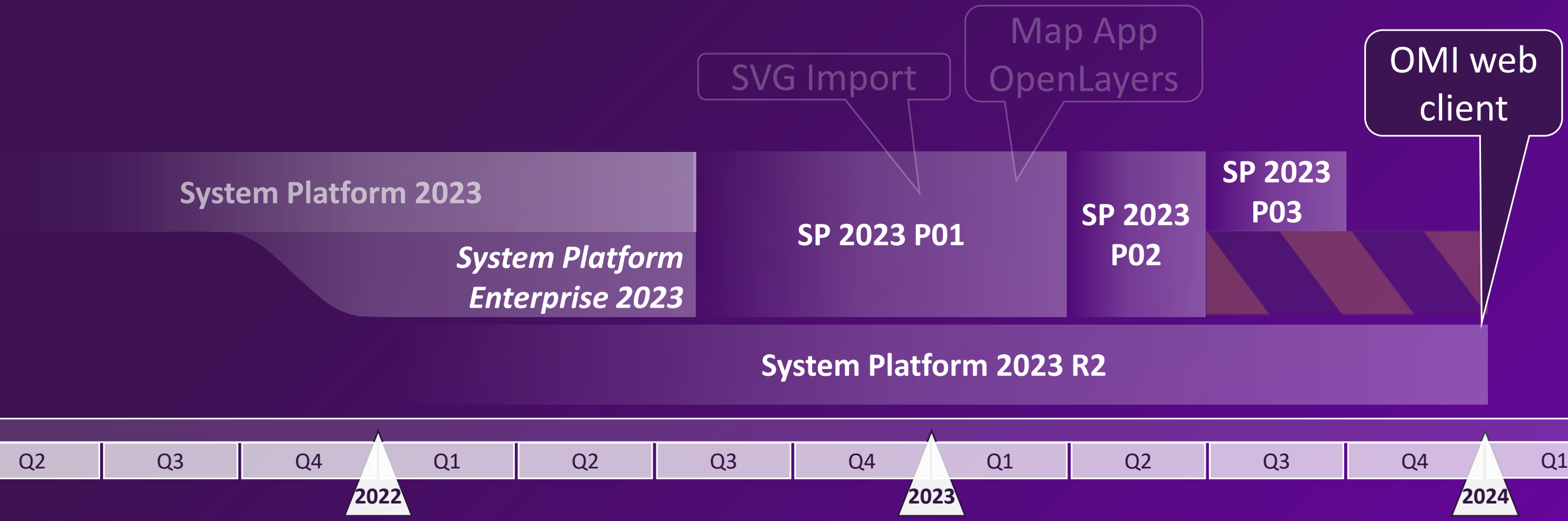
Export as Protected objects

Search

5:47 PM
12/21/2023

Oct 8 02:00
psNexu...
Home
Ubuntu Linux
AVEVA™

System Platform 2023 R2



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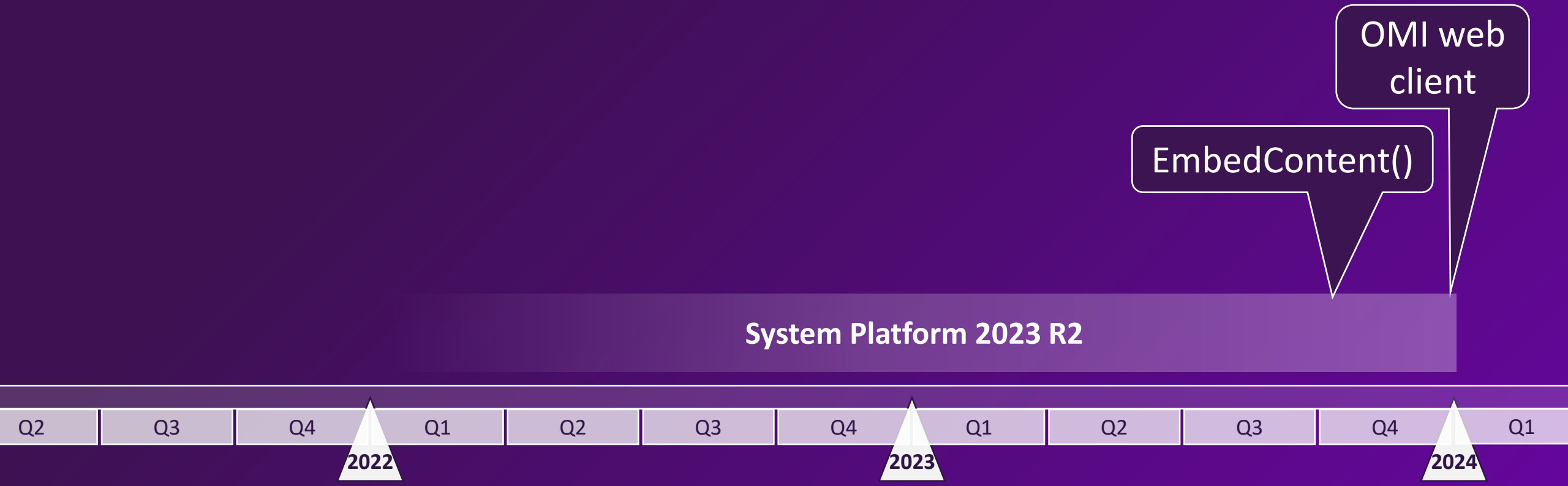
System Platform 2023 R2



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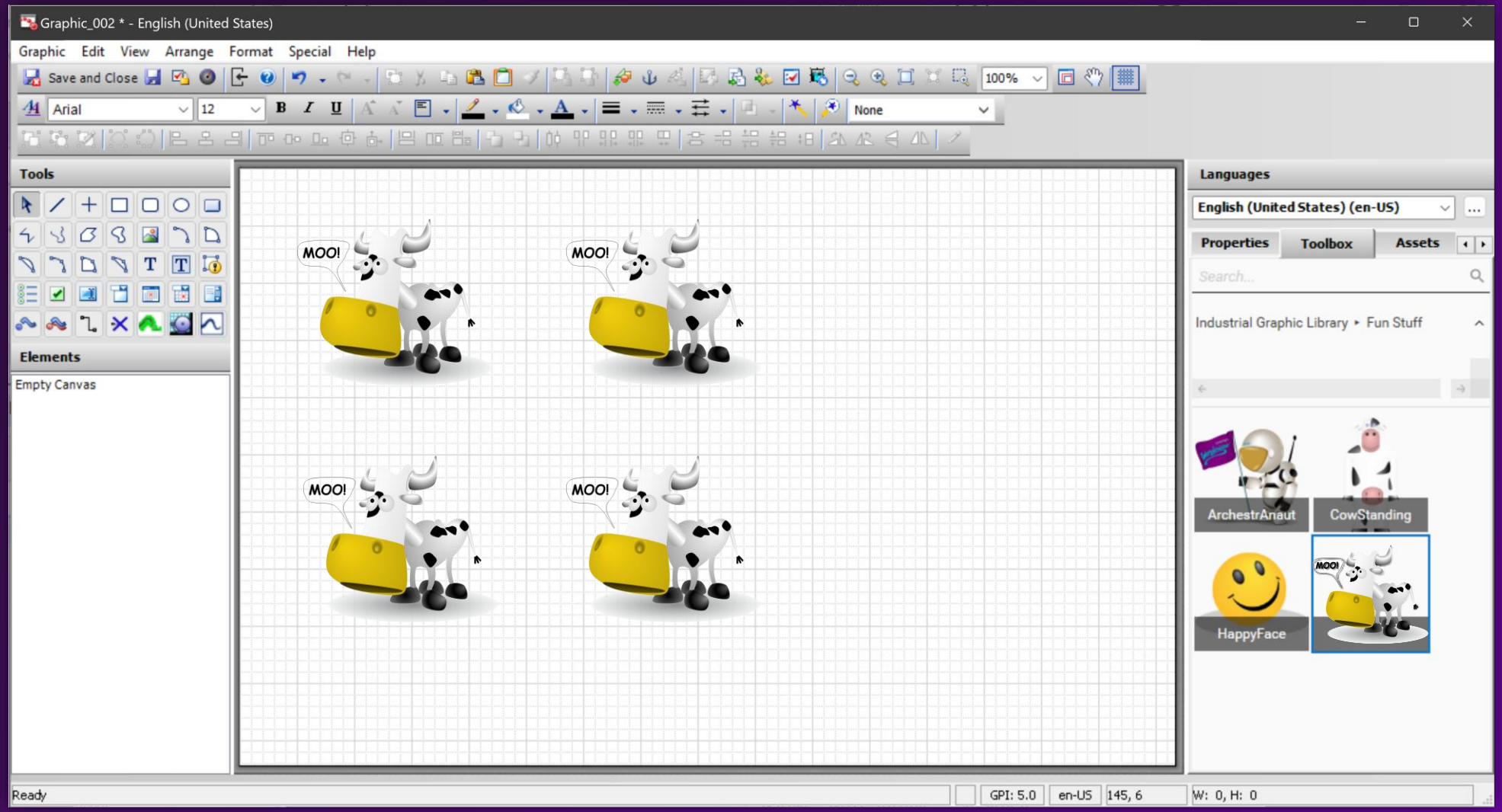
EmbedContent()



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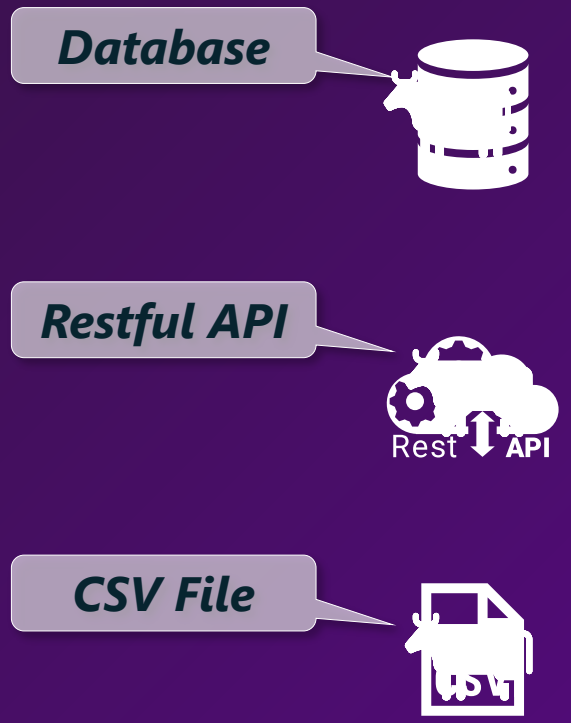
Transient data



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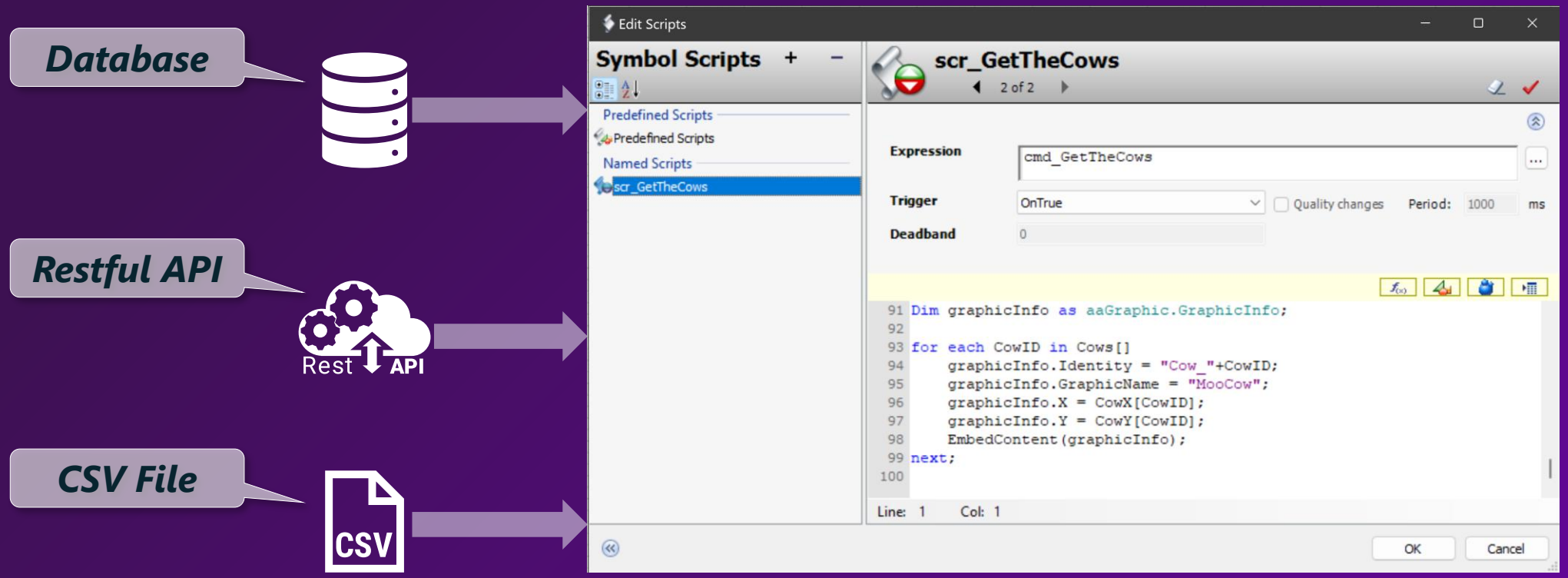
Runtime Graphic embedding!



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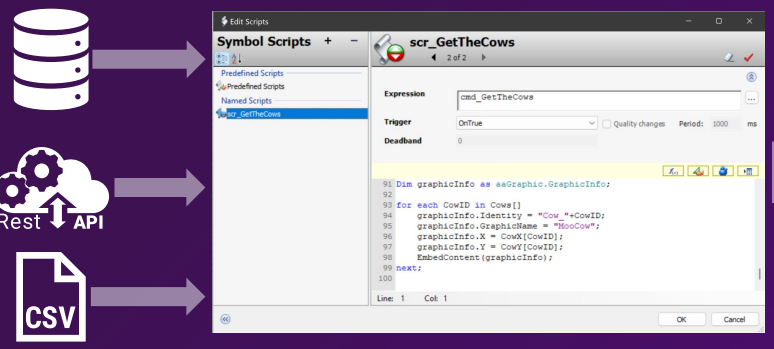
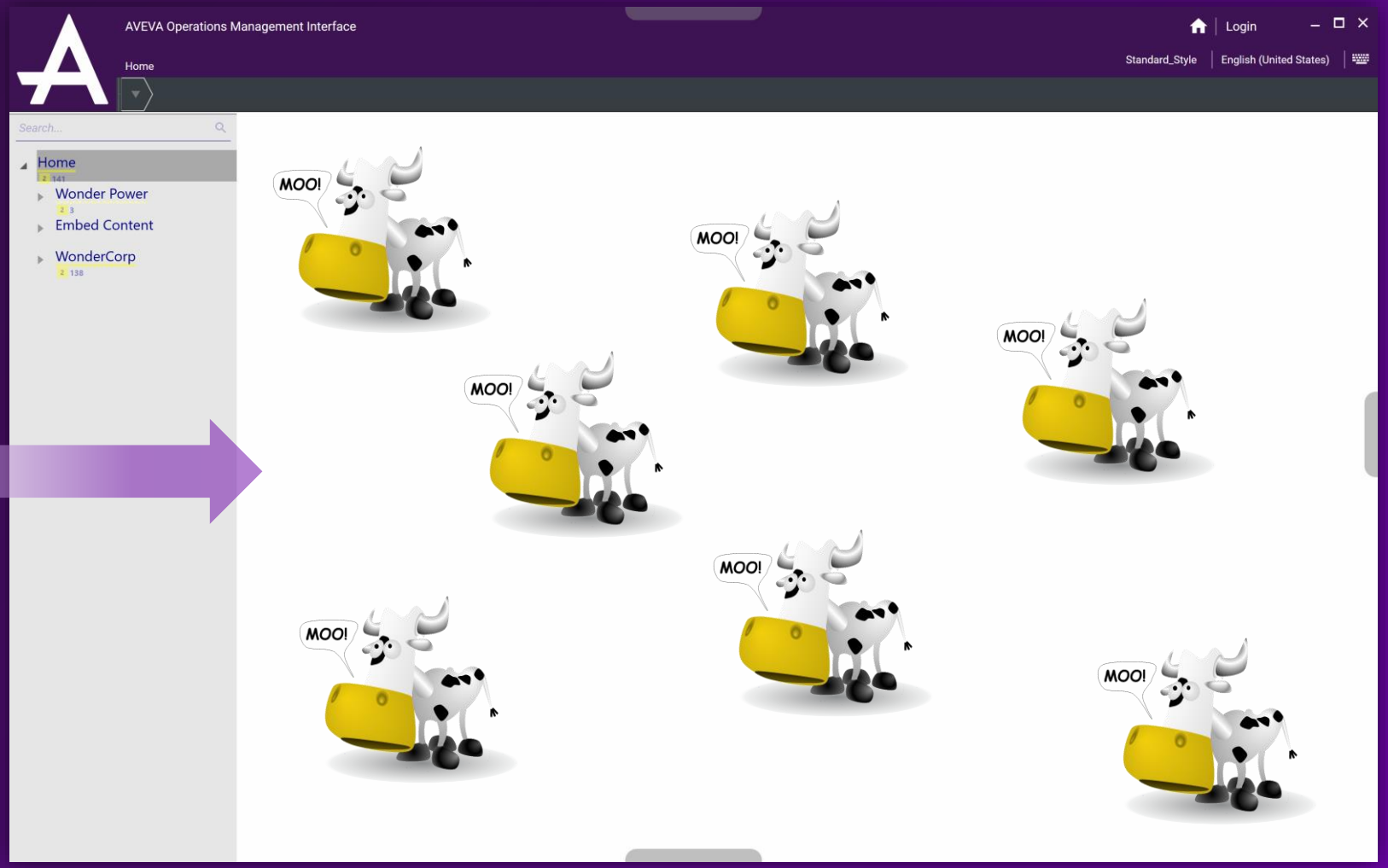
Runtime Graphic embedding!





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_Human - English (United States)

psSolitude

Graphic Edit View Arrange Format Special Help

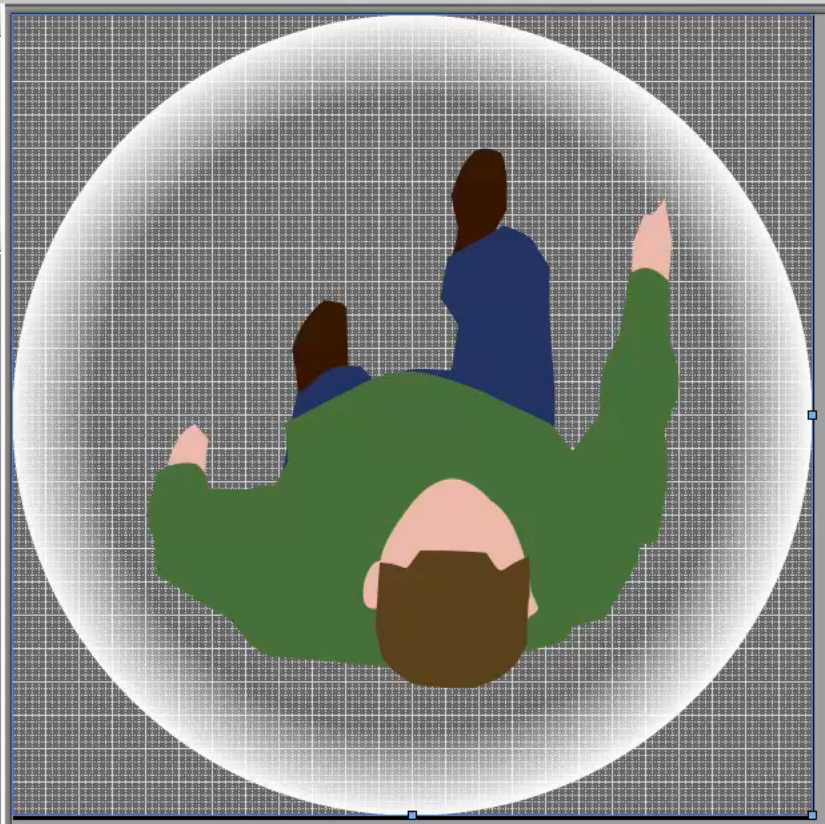
Save and Close

Arial 12 None

Tools

Elements

Group1



Languages

English (United States) (en-US)

Properties Toolbox Assets Templates

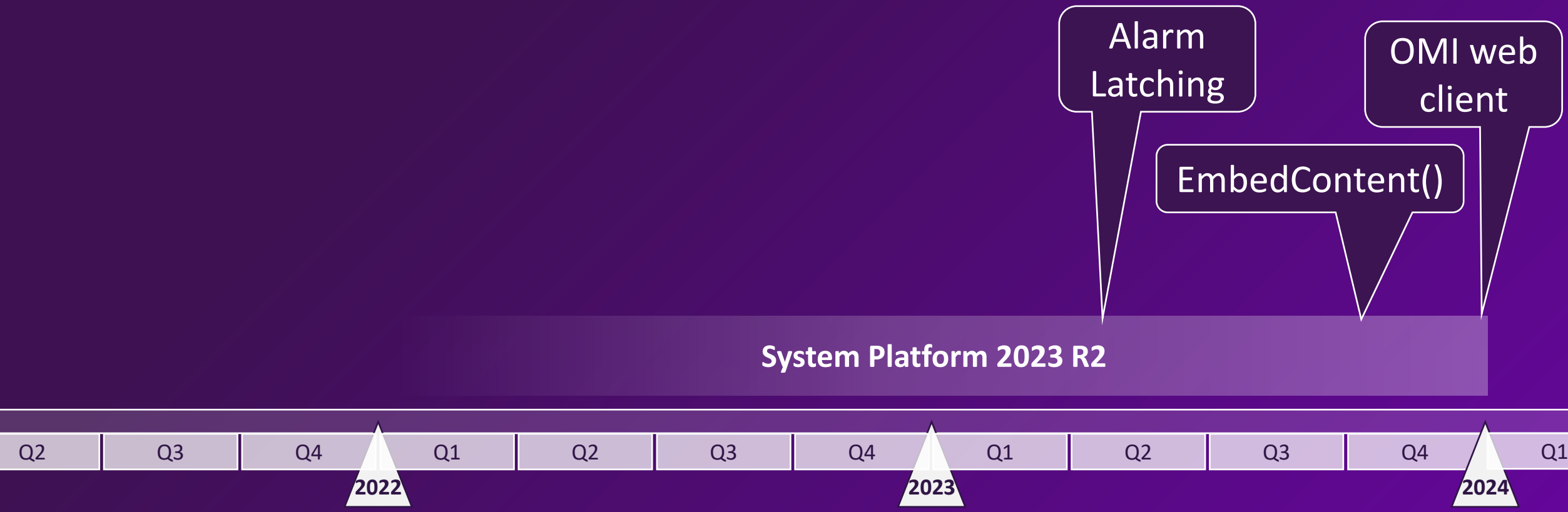
Graphic	
Description	
Size	**Fixed**
FixedWidth	**600**
FixedHeight	**600**
Appearance	
AnchorFixedTo	Relative
Locked	False
AbsoluteAnchor	**300, 300**
RelativeAnchor	**0, 0**
Smoothing	True
Runtime Behavior	
ContentType	None
FaceplateMode	False
MultiplePopupsAllowed	True
Scripts	**(Collection)**
ZoomPercent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

ShoeColour
Chocolate Brown...

Ready GPI: 5.0 en-US 872, 608 W: 600, H: 600

Search

System Platform 2023 R2



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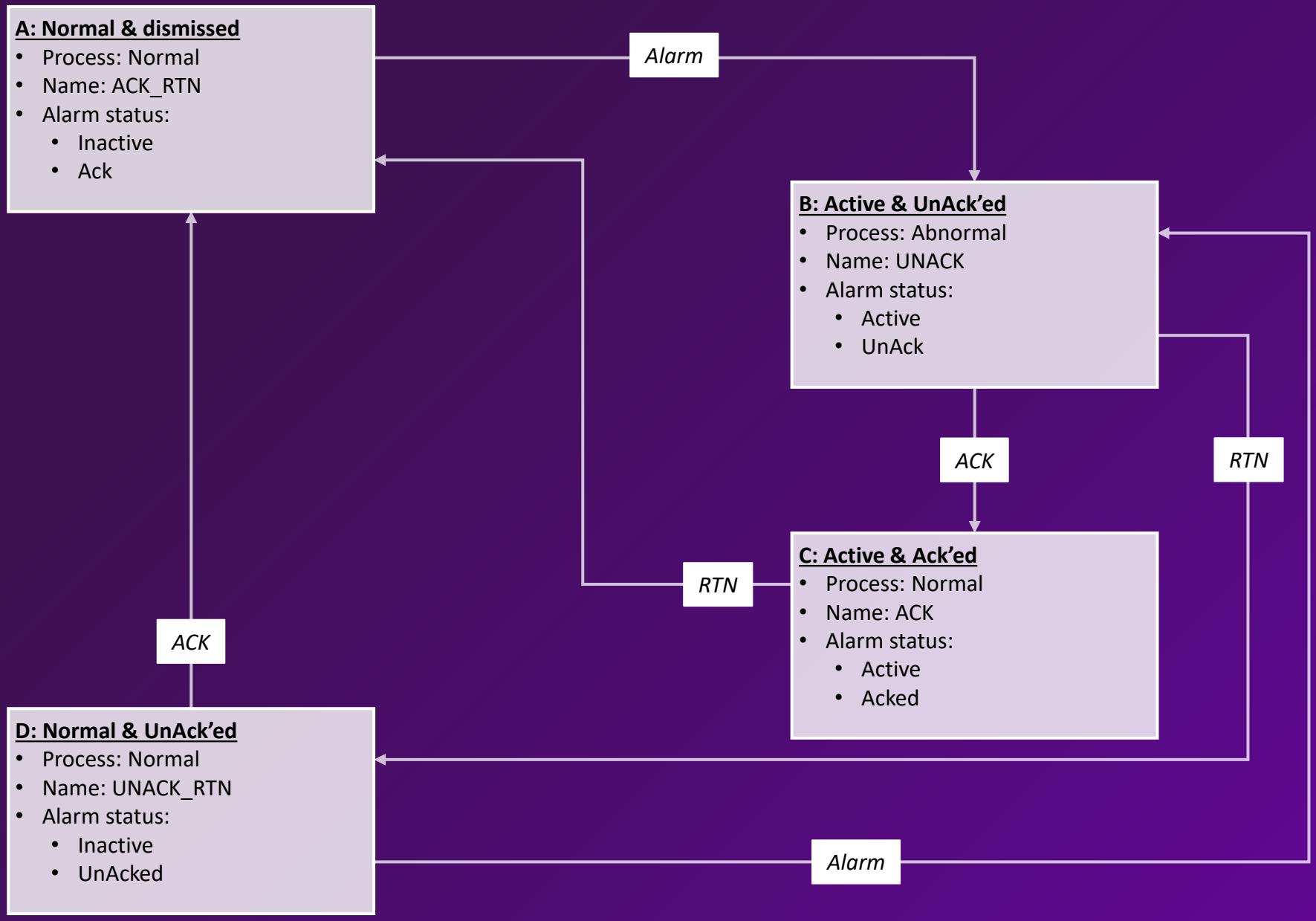
Pre-2023 R2



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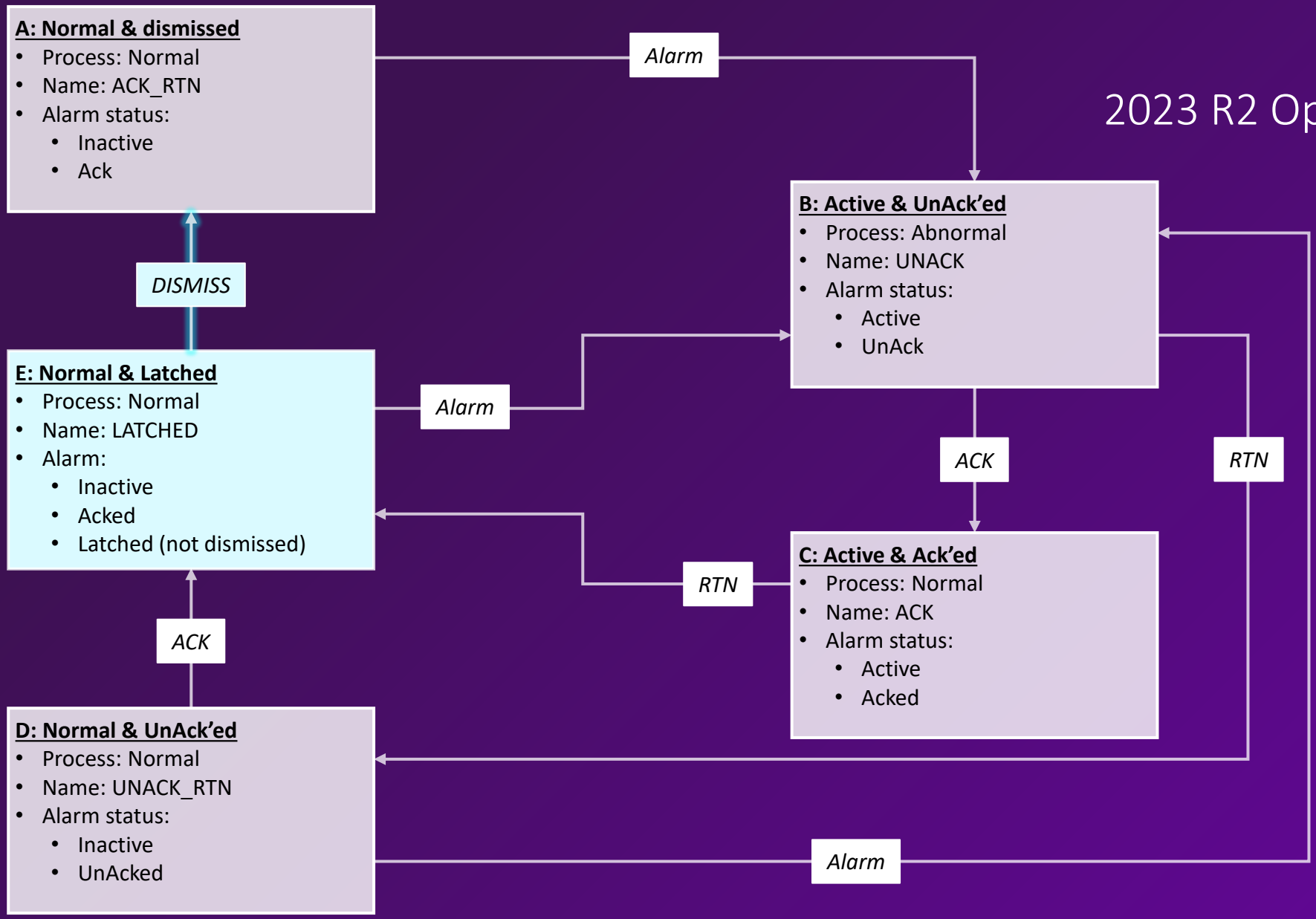
2023 R2 Optional LATCH state



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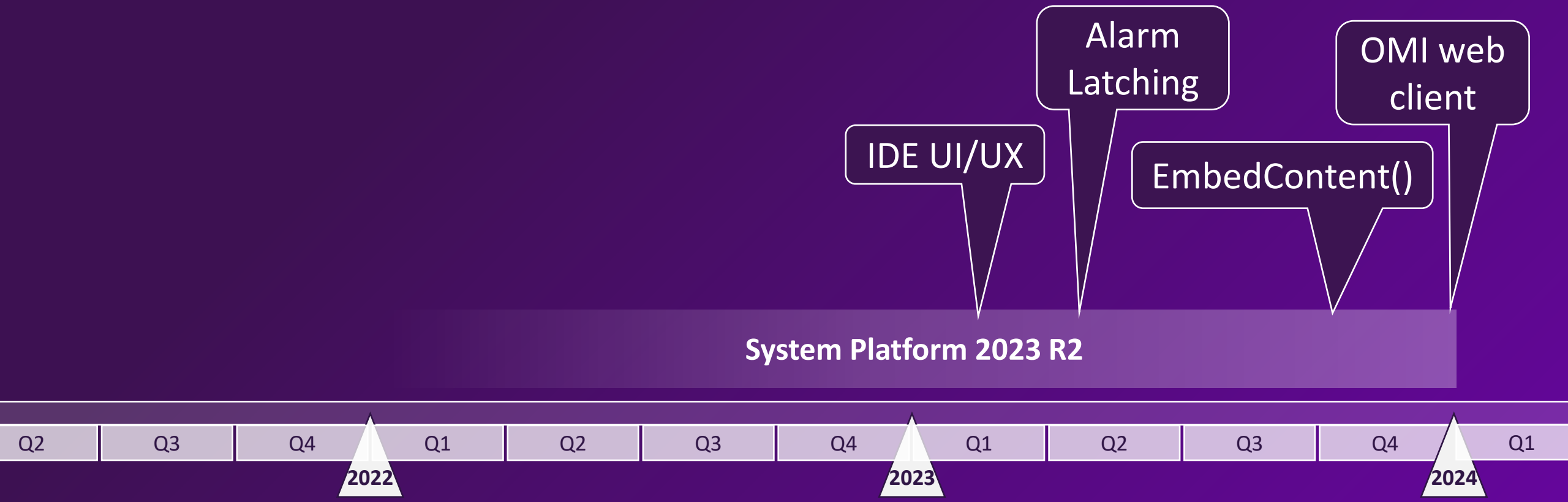
System Platform 2023 R2



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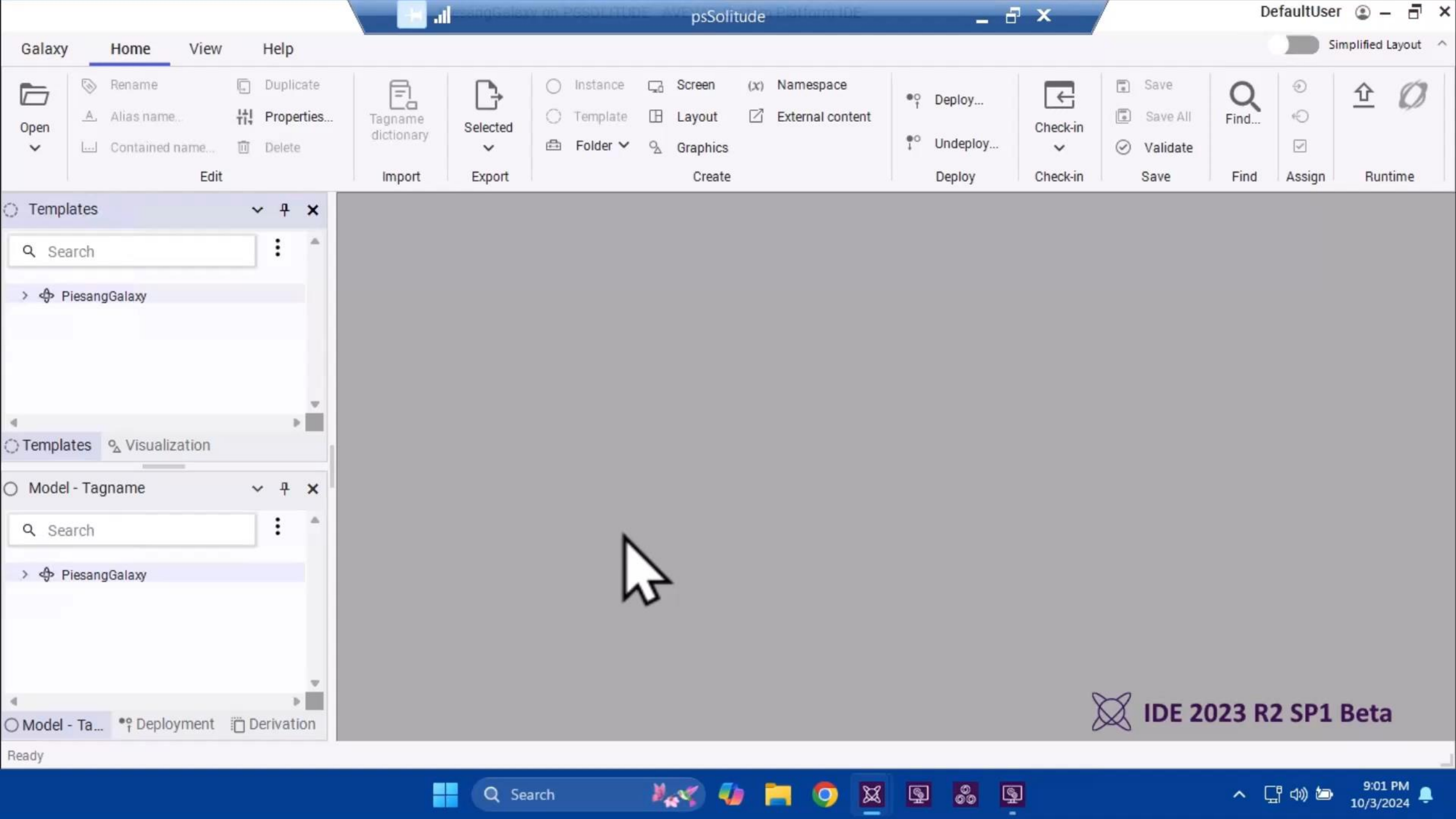
Open | Rename | Alias name... | Contained name... | Duplicate | Properties... | Delete — Edit
Tagname dictionary — Import
Selected — Export
Instance | Template | Folder | Screen | Layout | Graphics | Namespace | External content — Create
Deploy... | Undeploy... — Deploy
Check-in — Check-in
Save | Save All | Validate — Save
Find... — Find
Assign To... | Unassign | Set as default — Assign
Upload changes | Object Viewer — Runtime

Templates
Search
Serenity
Templates | Visualization

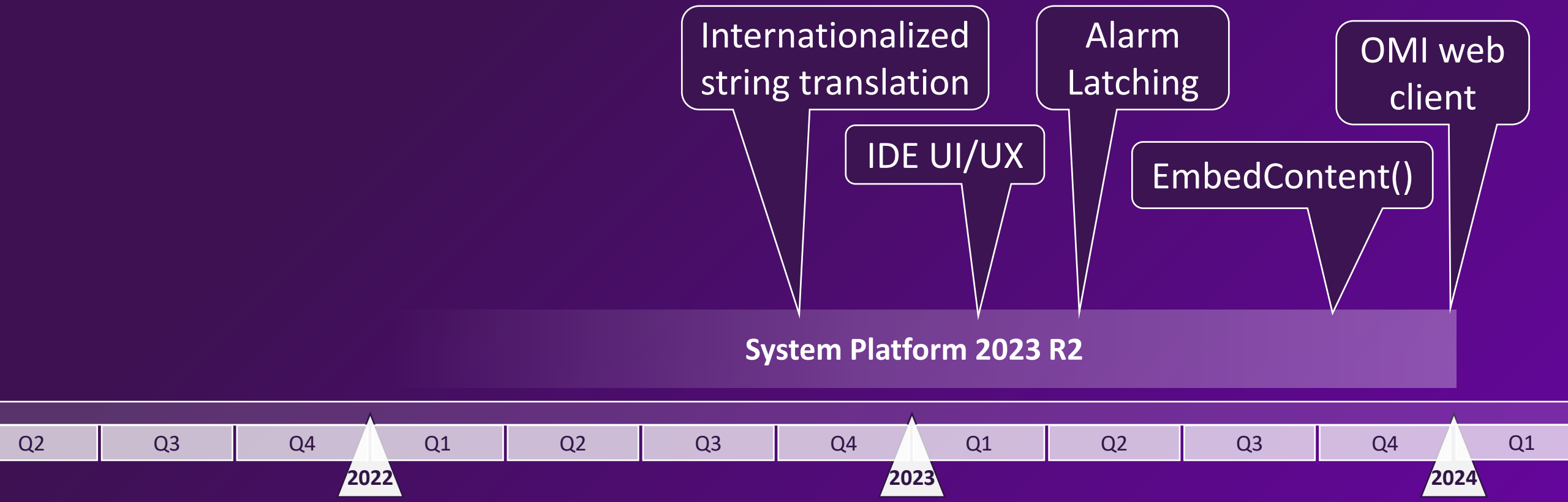
Model - Tagname
Search
Serenity
Model - Tagname | Deployment | Derivation

IDE 2023 R2

Export Internationalized string attributes from selected objects


psSolitude
DefaultUser
Galaxy
Home
View
Help
Simplified Layout
Open
Rename
Alias name...
Contained name...
Duplicate
Properties...
Delete
Edit
Tagname dictionary
Import
Selected
Export
Instance
Template
Folder
Screen
Layout
Graphics
Namespace
External content
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
IDE 2023 R2 SP1 Beta
Ready
Search
9:01 PM
10/3/2024

System Platform 2023 R2



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Serenity psSolitude DefaultUser

Galaxy Home View Help

Simplified Layout

Open | Rename | Alias name... | Contained name... | Duplicate | Properties... | Delete | Edit | Tagname dictionary | Import | Selected | Export | Instance | Template | Folder | Screen | Layout | Graphics | Namespace | External content | Create | Deploy... | Undeploy... | Deploy | Check-in | Check-in | Save | Save All | Validate | Save | Find... | Find | Assign To... | Unassign | Set as default | Assign | Upload changes | Object Viewer | Runtime

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

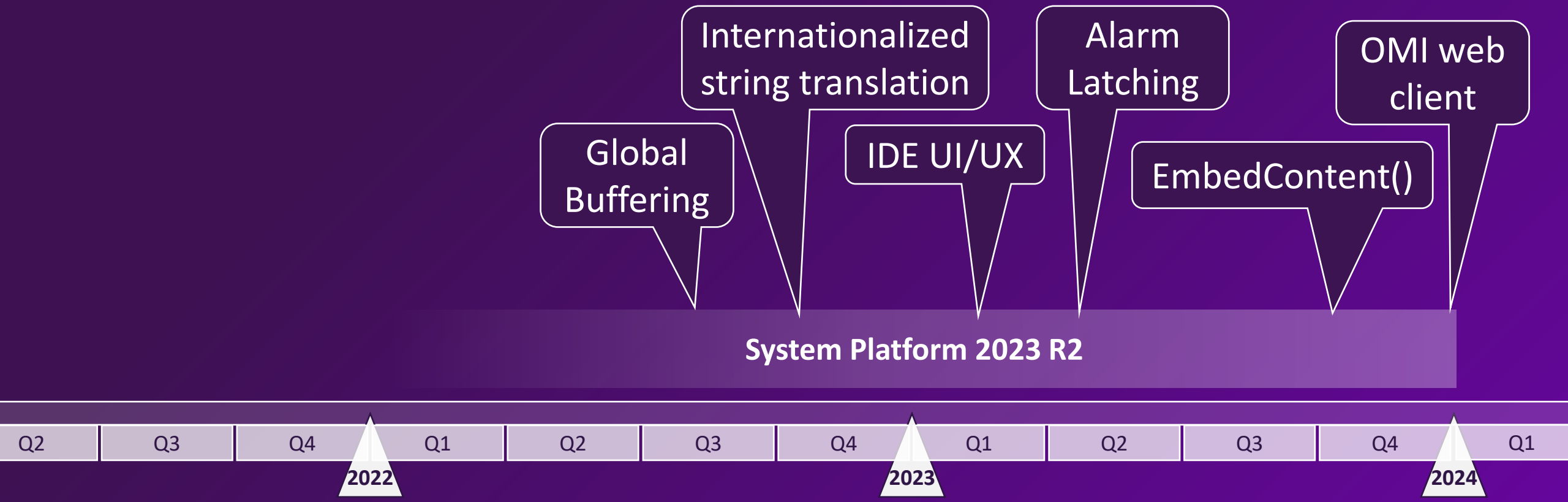
IDE 2023 R2

Export Internationalized string attributes from selected objects

Search

3:21 PM
12/21/2023

System Platform 2023 R2



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Open | Rename | Alias name... | Contained name... | Duplicate | Properties... | Delete (Edit) | Tagname dictionary (Import) | Selected (Export) | Instance | Template | Folder | Screen | Layout | Graphics | Namespace | External content (Create) | Deploy... | Undeploy... (Deploy) | Check-in (Check-in) | Save | Save All | Validate (Save) | Find... (Find) | Assign To... | Unassign | Set as default (Assign) | Upload changes | Object Viewer (Runtime)

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

Model - Alias | Deployment | Derivation

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.

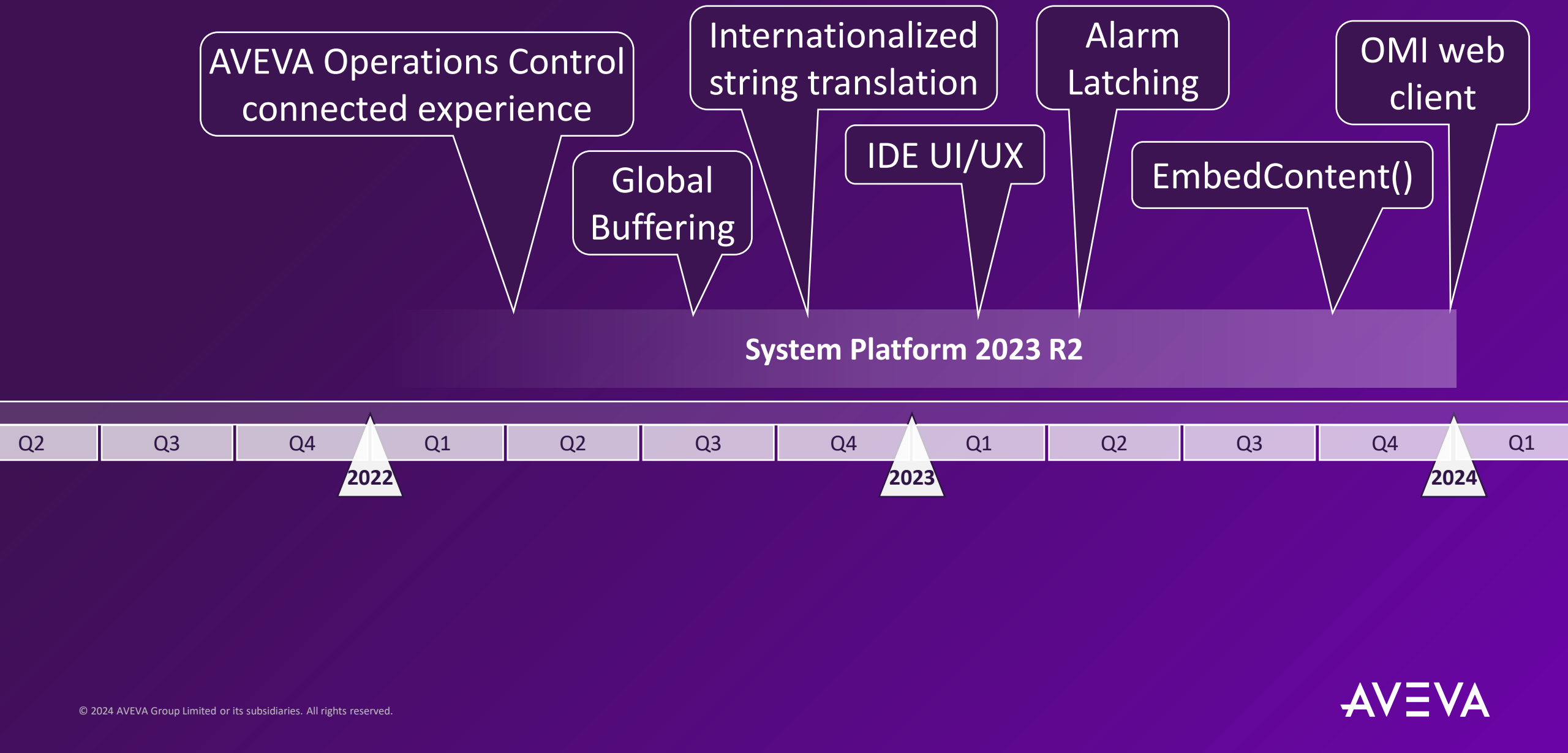
Name: xInfo.Cooling
Description:
Data type: InternationalizedString
Writeability: Writeable at config only
Initial value: Circulating water

Core *

Ready

Search

System Platform 2023 R2



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AVEVA™ Operations Control

Hybrid Cloud Platform

Microsoft

On Premise Products

Word
Excel
PowerPoint
Outlook
OneNote
Power BI

(~~Office 365~~ Microsoft 365)

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AVEVA™ Operations Control

Hybrid Cloud Platform

Microsoft

(~~Office 365~~ Microsoft 365)

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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

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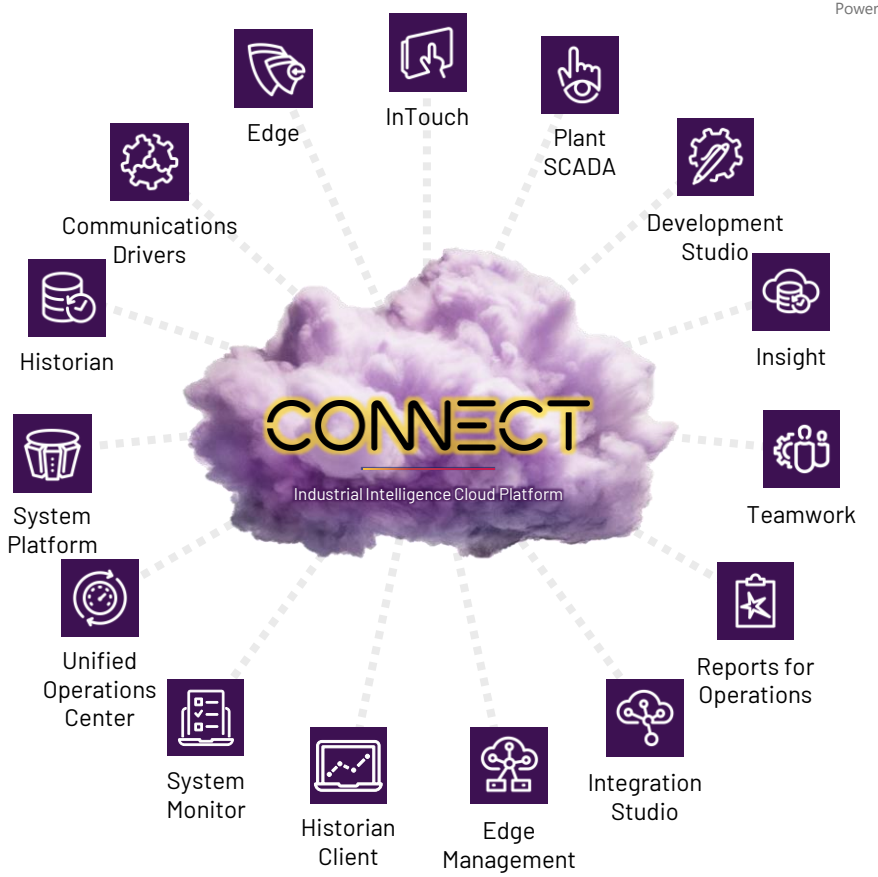
AVEVA™ Operations Control

Hybrid Cloud Platform

AVEVA

On Premise Products



(~~Office 365~~ Microsoft 365)

Microsoft

AVEVA Operations Control	AVEVA Operations Control	AVEVA Unified Operations Center
Edge	Supervisory	UOC

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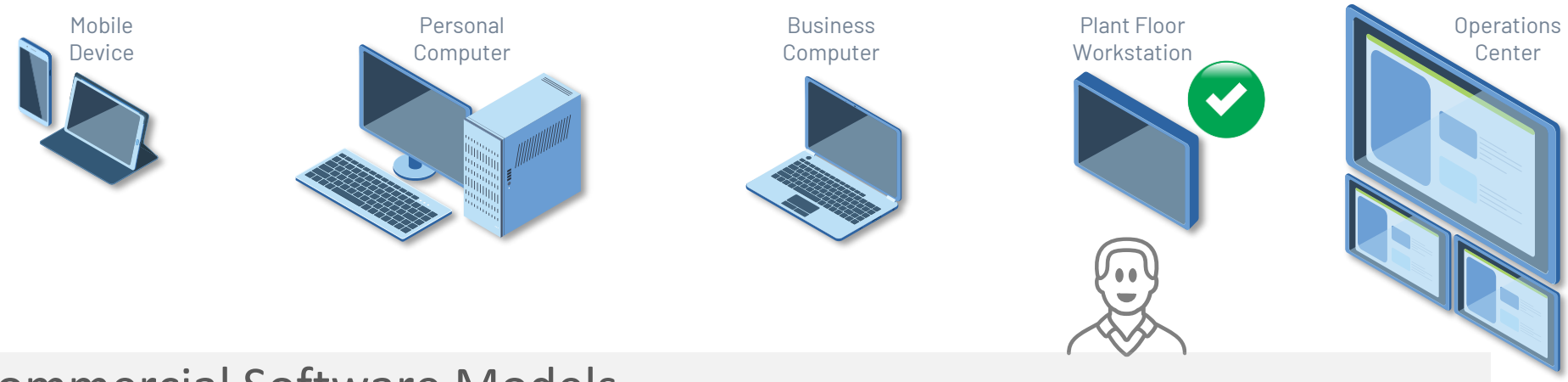
Connecting workers



Traditional Commercial Software Models

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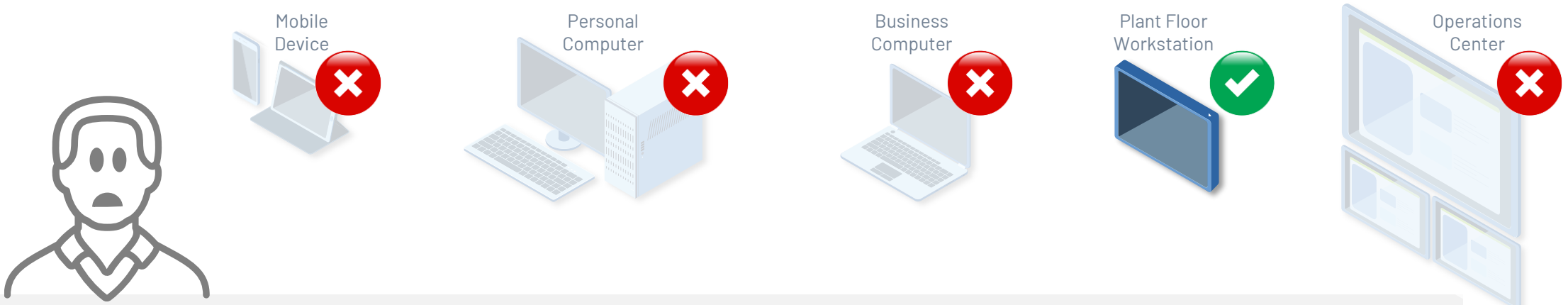
Connecting workers



Traditional Commercial Software Models

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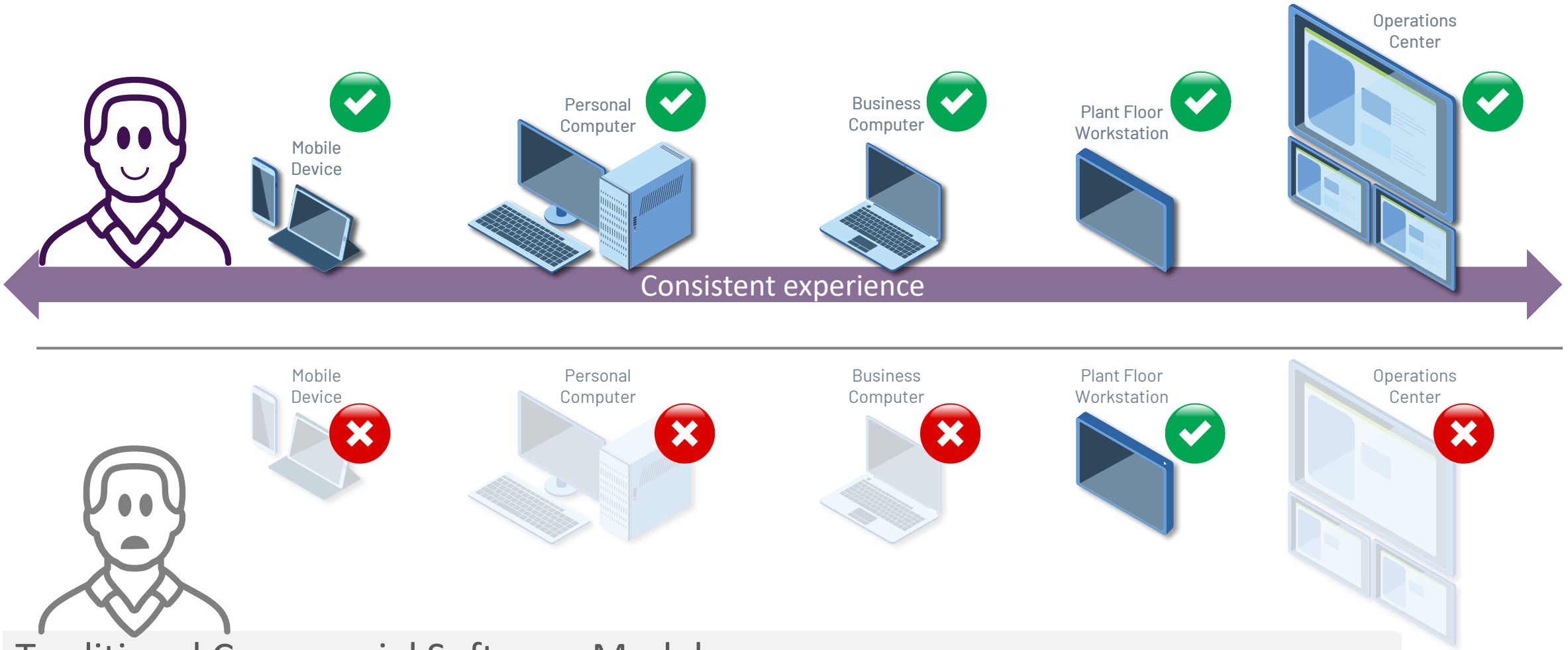
Connecting workers



Traditional Commercial Software Models

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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

7:12 am

Preview daily activities

8:00 am

Investigate process abnormalities

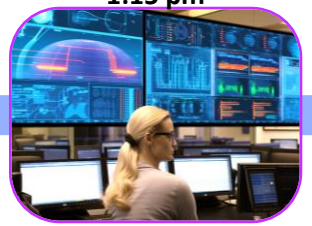
9:36 am

Change equipment operational state

1:05 pm

Monitor production conditions

1:15 pm



Perform line switchover

1:43 pm

Diagnose equipment problems

2:05 pm

Research technical documentation

2:20 pm

On demand assistance

3:05 pm

Explore entitlements

4:10 pm

Testing and experimentation

6:20 pm

Review daily reports

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Extending use cases

User-centric software

7:12 am

Actionable information

Preview daily activities

8:00 am

Data analytics

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9:36 am

HMI control

Change equipment operational state

1:05 pm

Operational visibility

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Supervisory control

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1:43 pm

Process analysis

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2:05 pm

Knowledge management

Research technical documentation

2:20 pm

Collaboration

On demand assistance

3:05 pm

Development

Explore entitlements

4:10 pm

Prototype environments

Testing and experimentation

6:20 pm

Reports

Review daily reports

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Extending use cases

User-centric software

1 License based on user

7:12 am

Actionable information

Preview daily activities

8:00 am

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HMI control

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Process analysis

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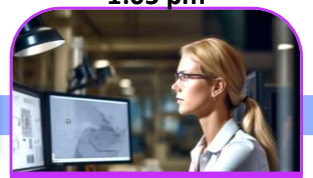


Operational visibility

Monitor production conditions

Knowledge management

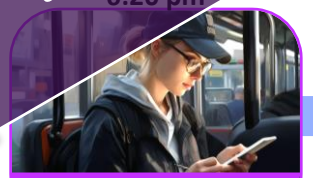
Research technical documentation

2:20 pm

Collaboration

On demand assistance

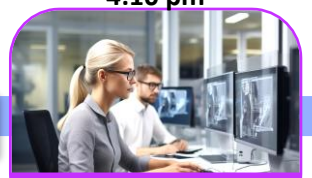
6:20 pm



Reports

Review daily reports

4:10 pm



Prototype environments

Testing and experimentation

3:05 pm

Development

Explore entitlements

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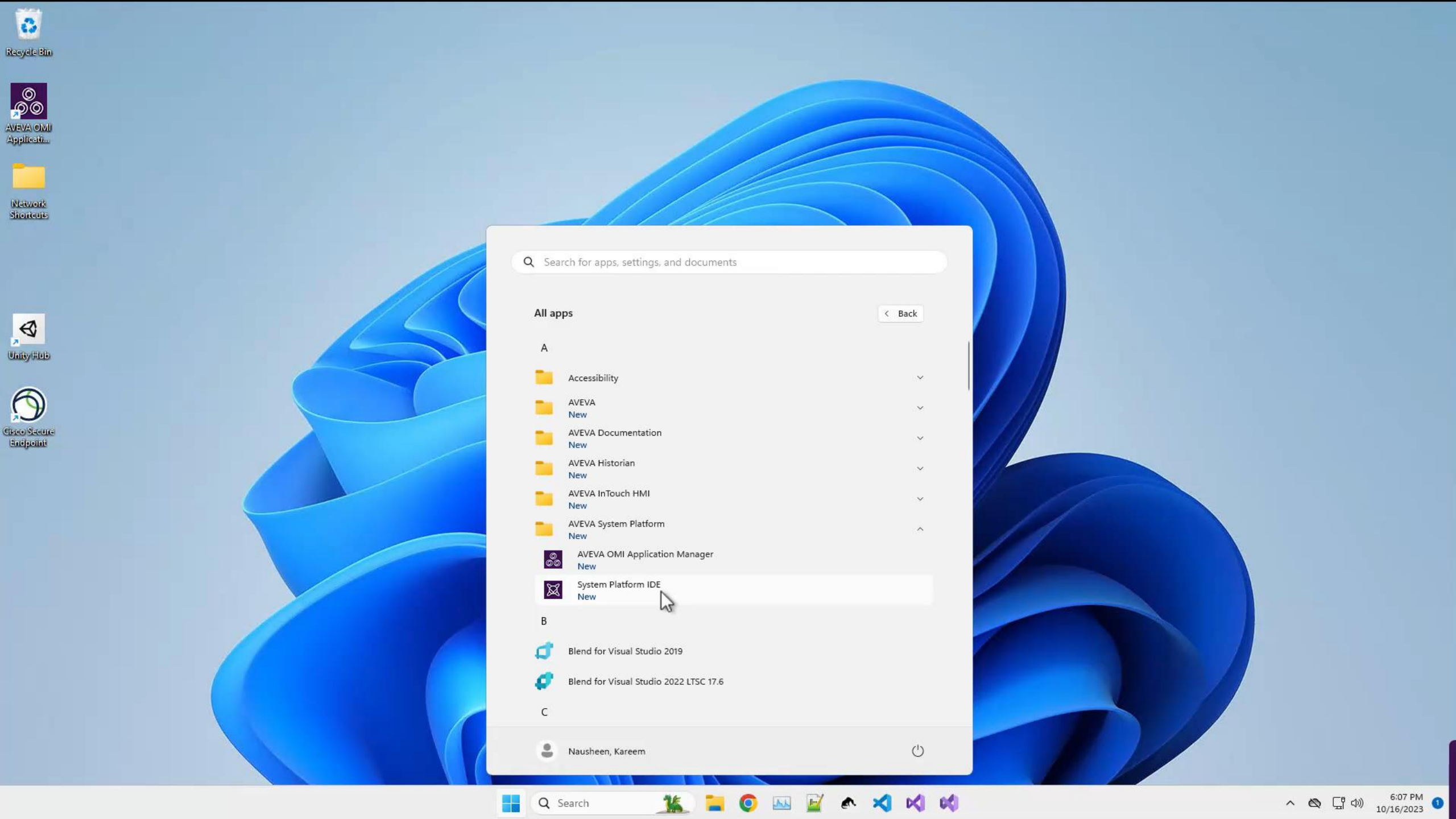
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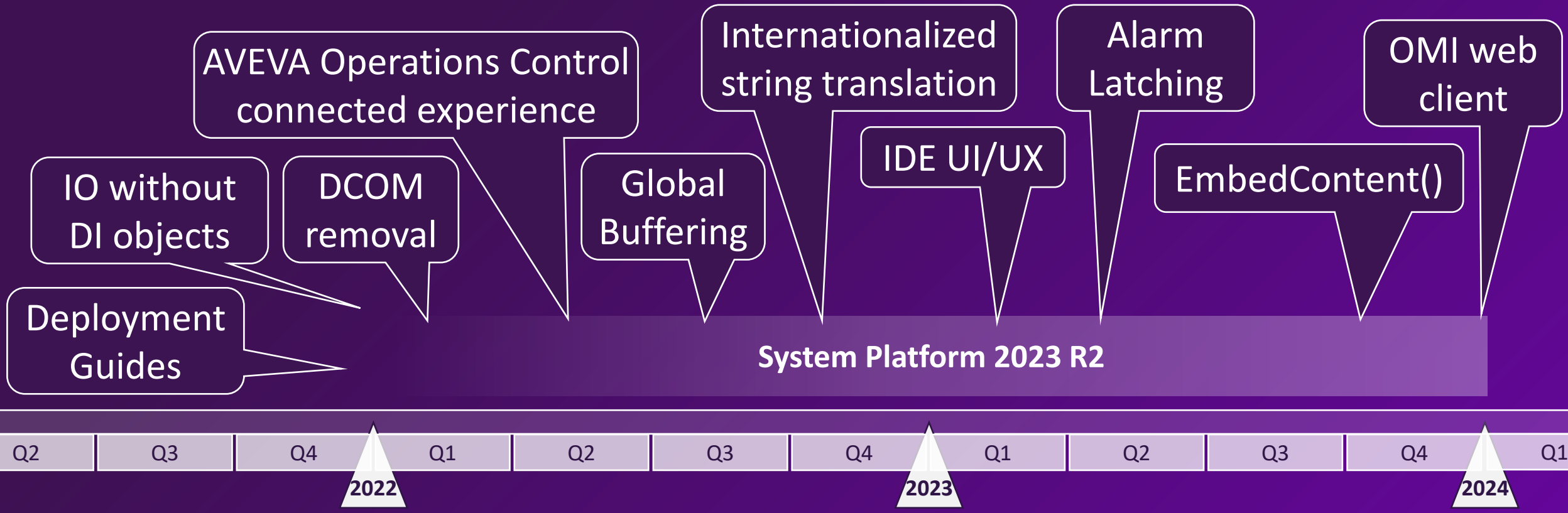

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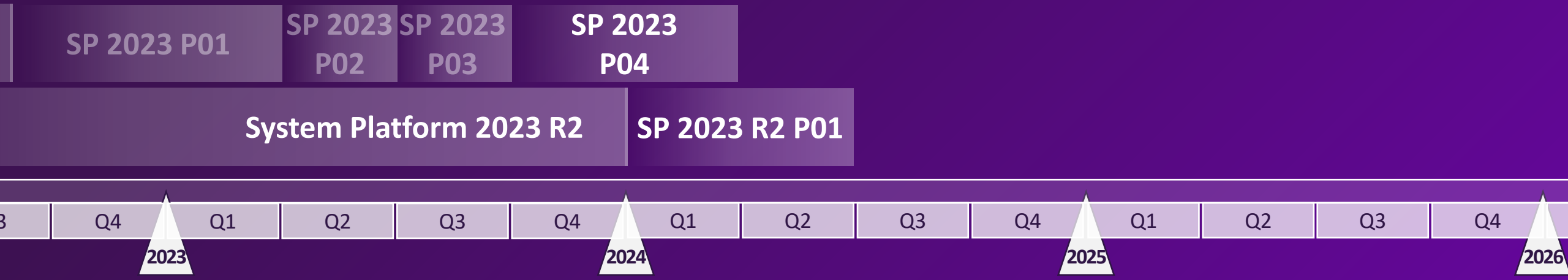

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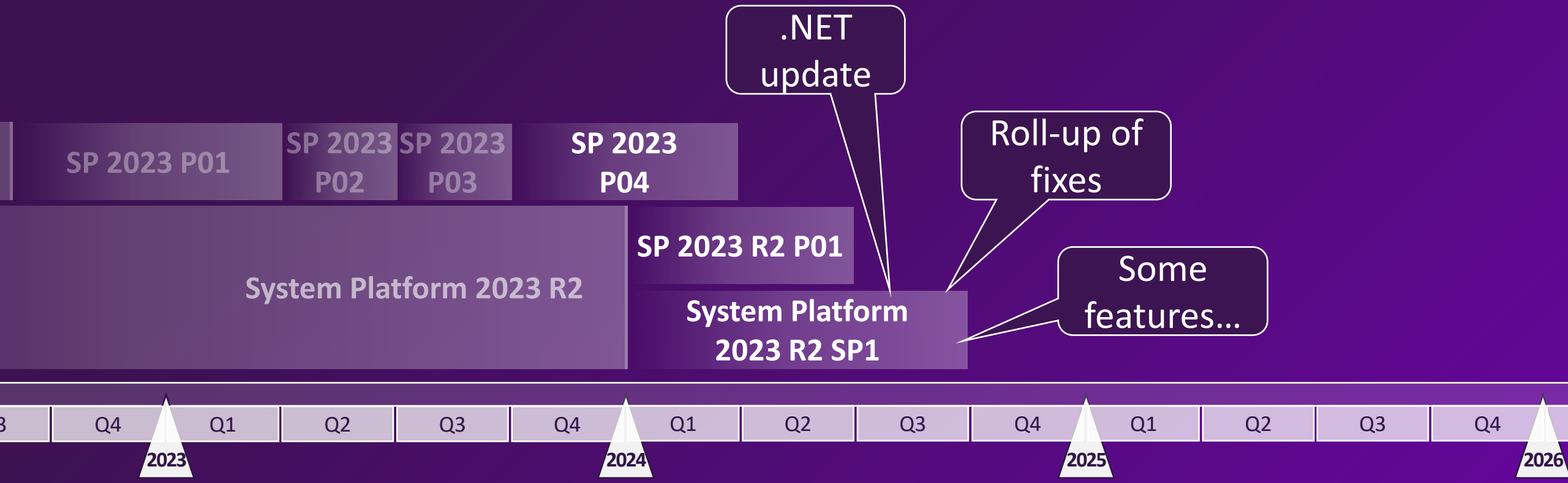

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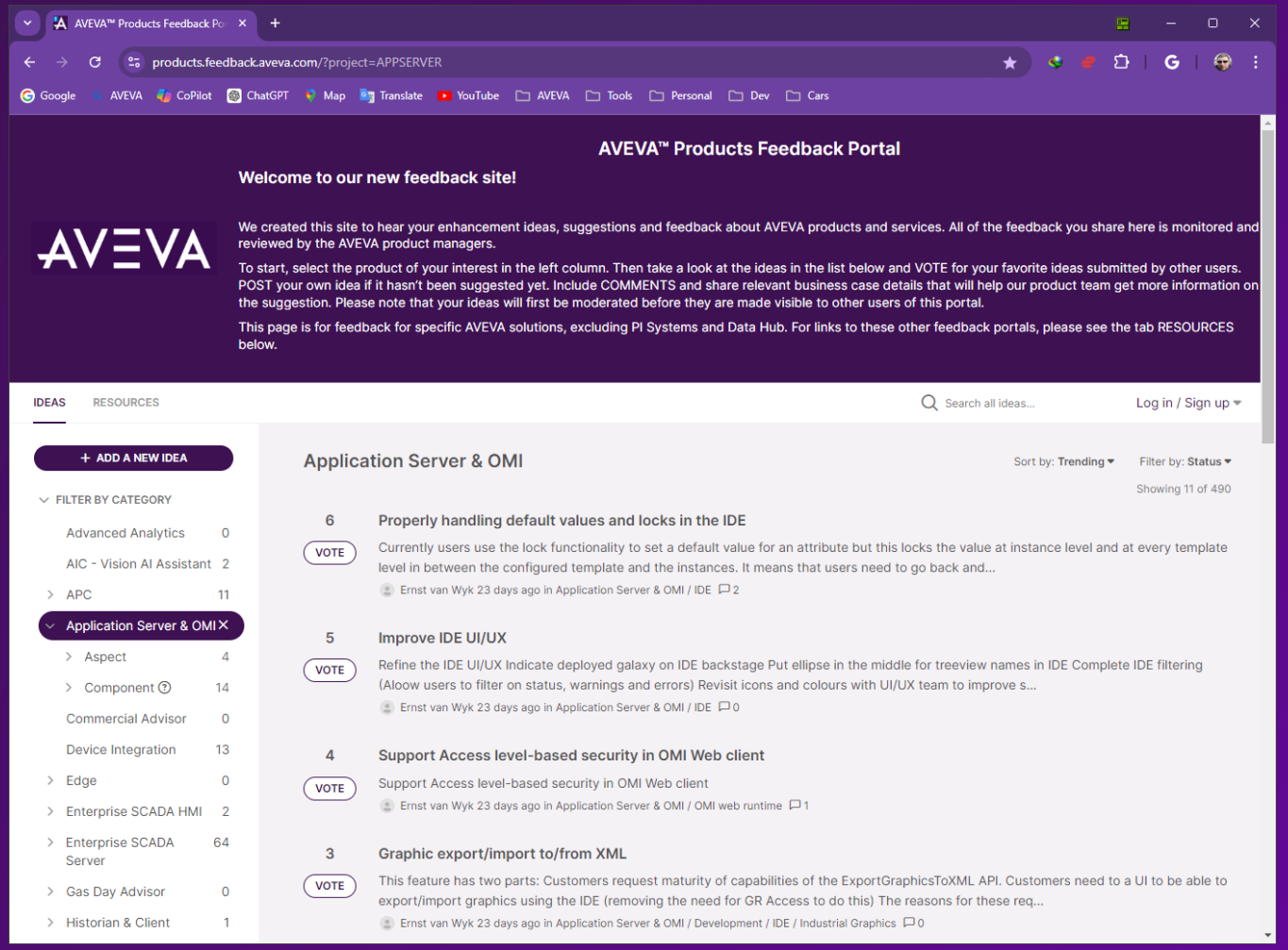

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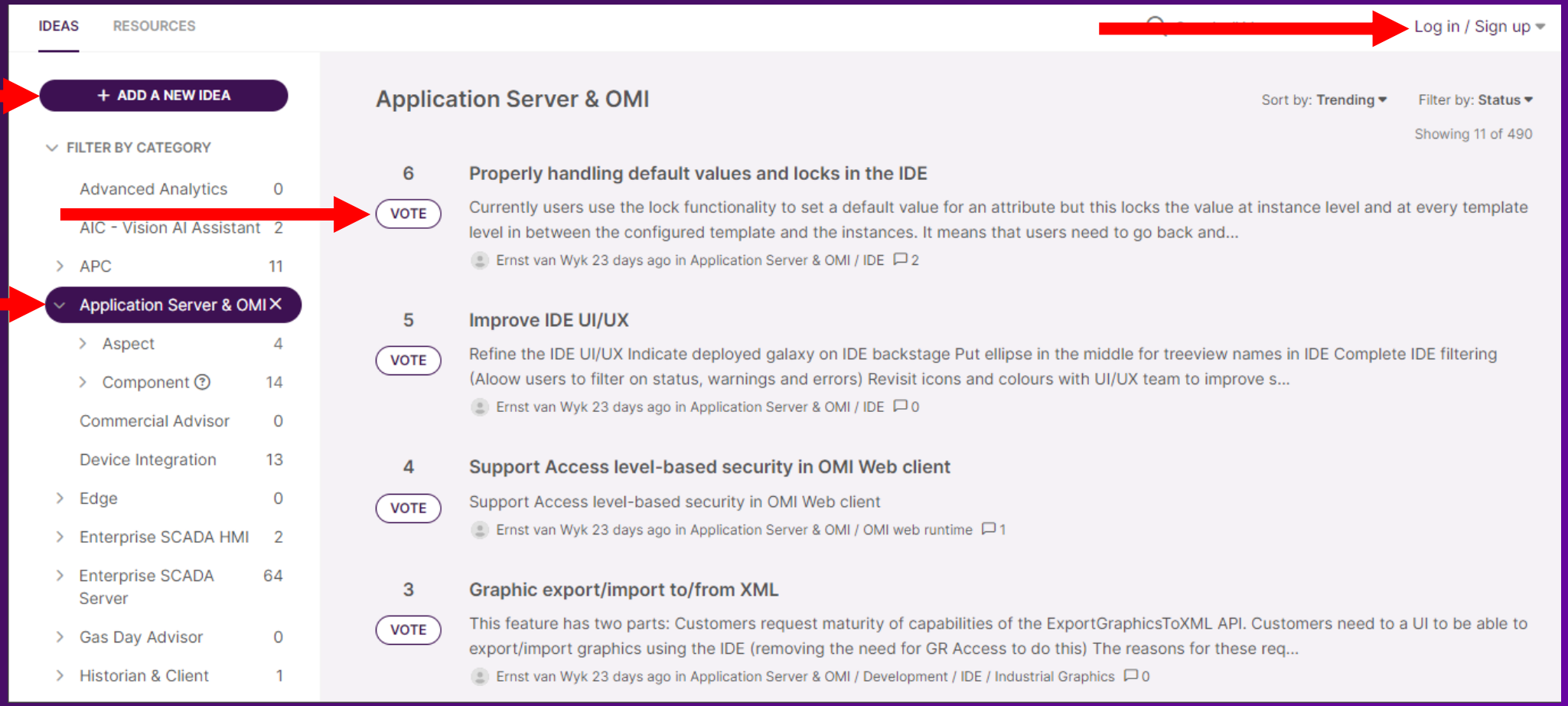

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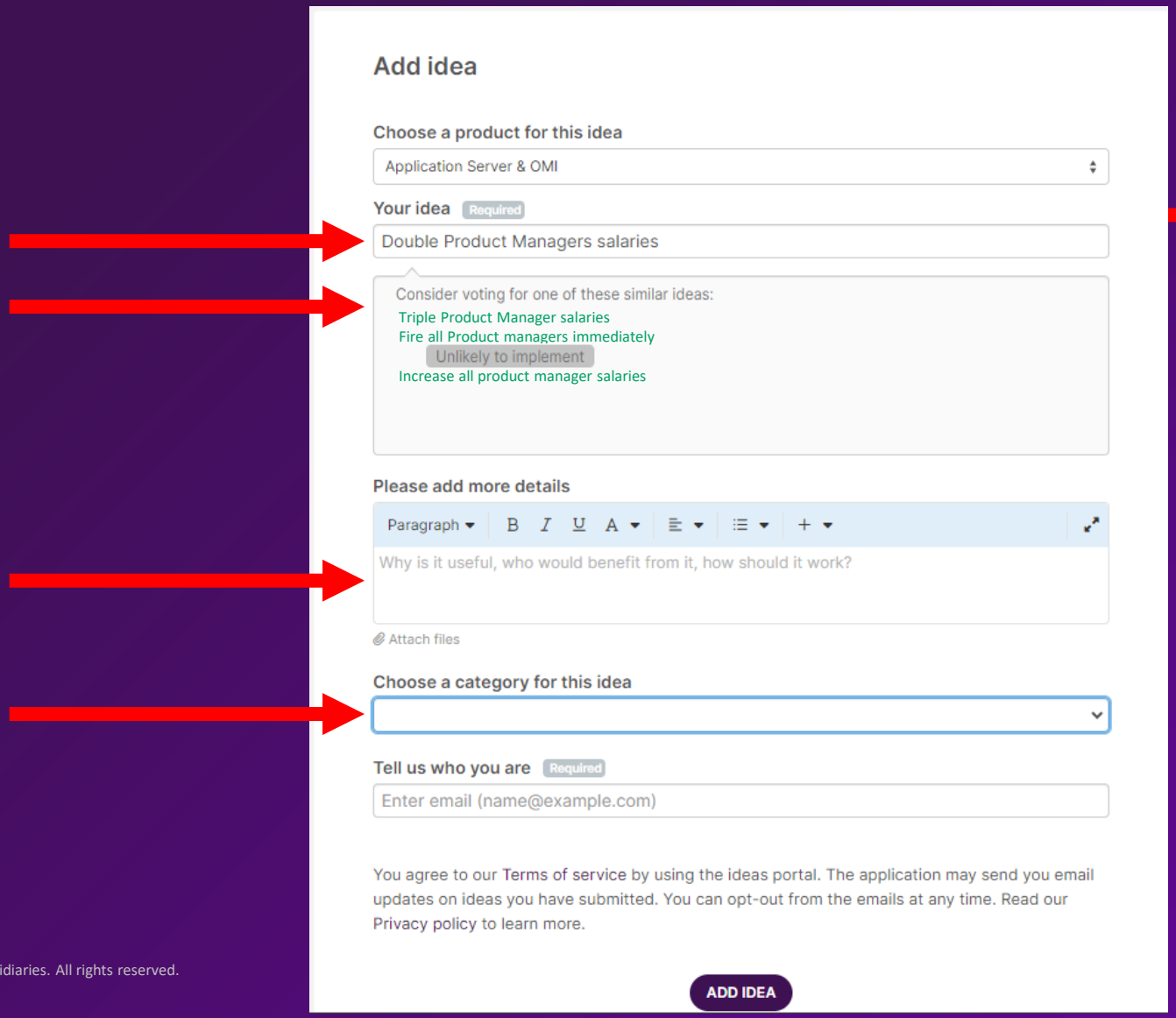

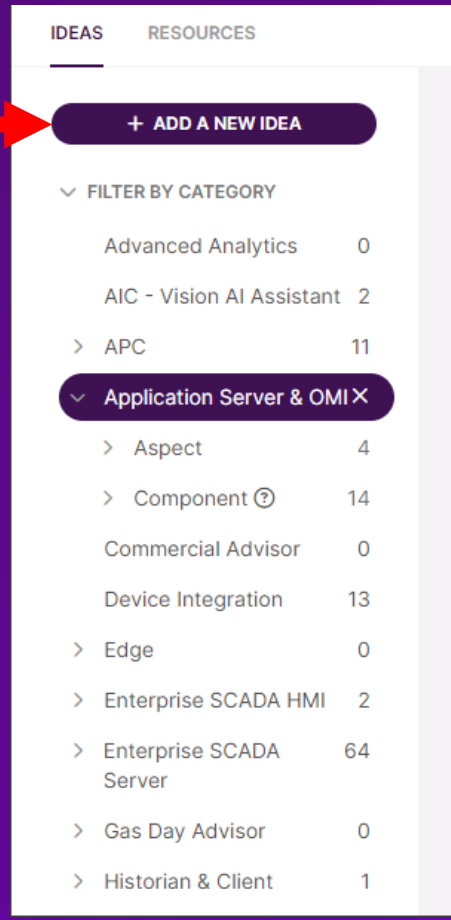

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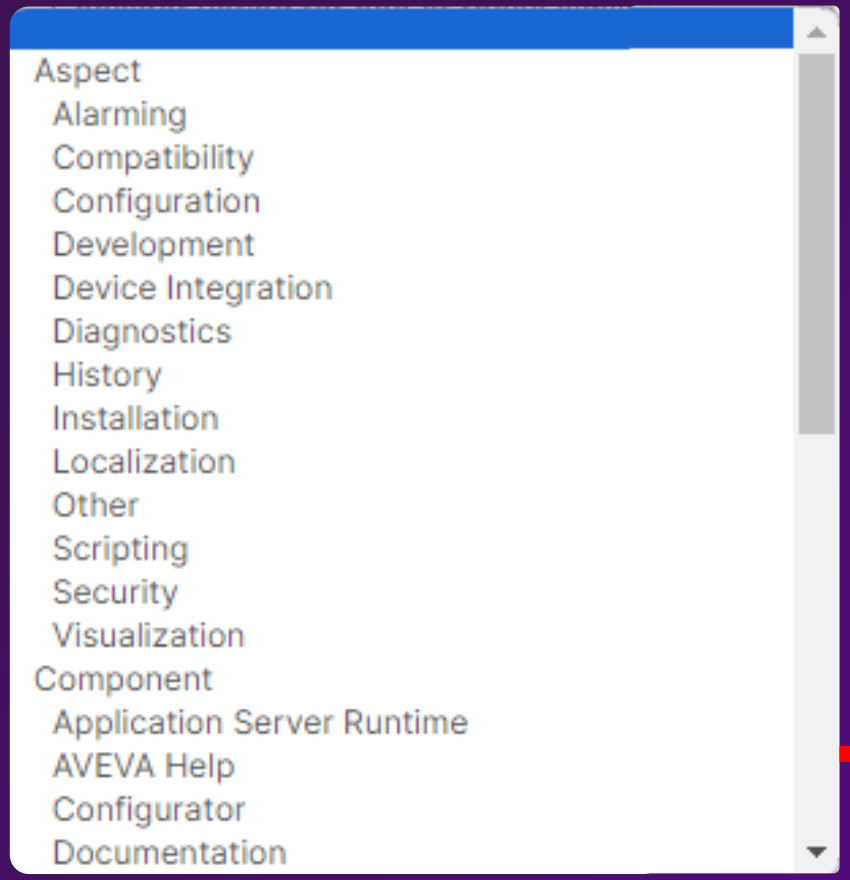

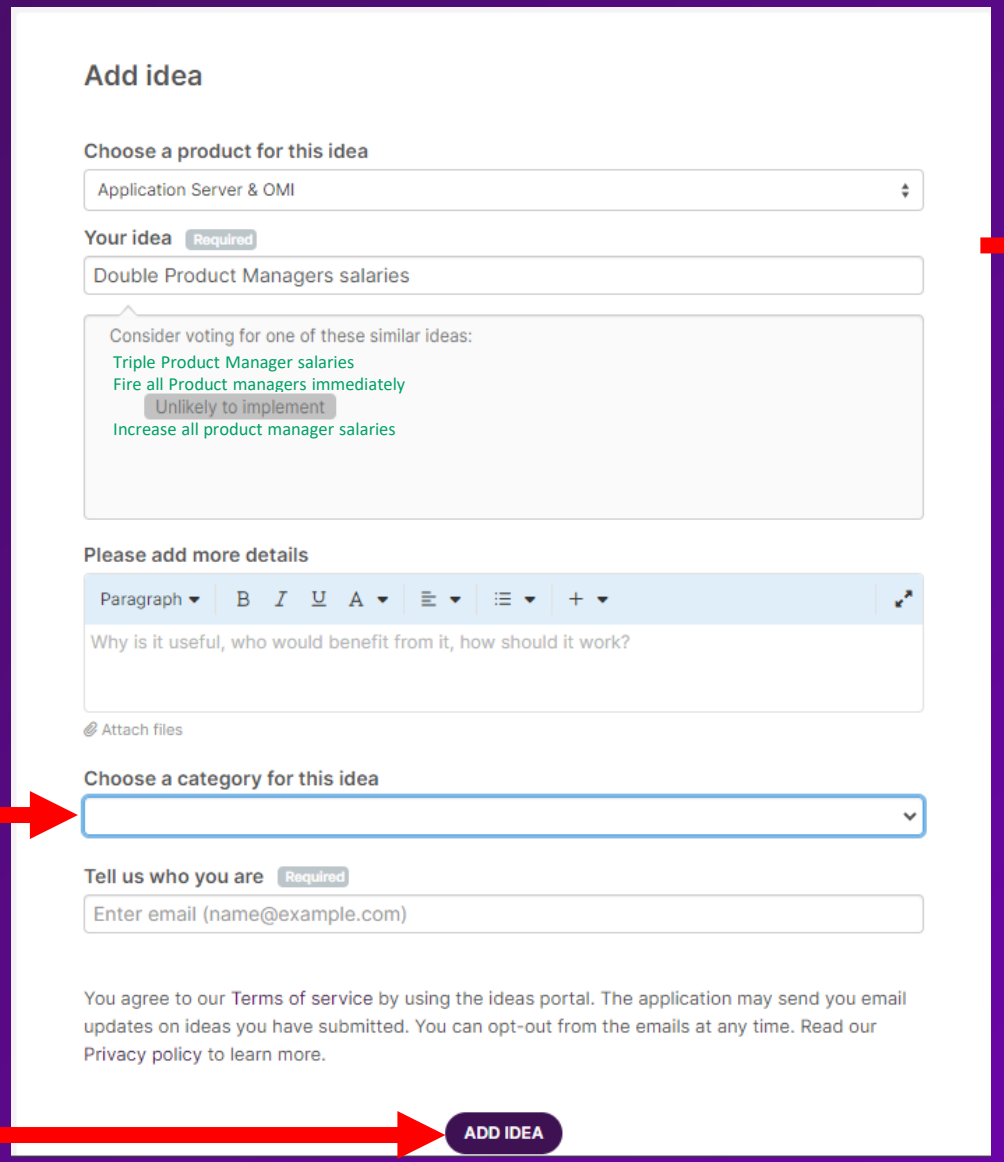

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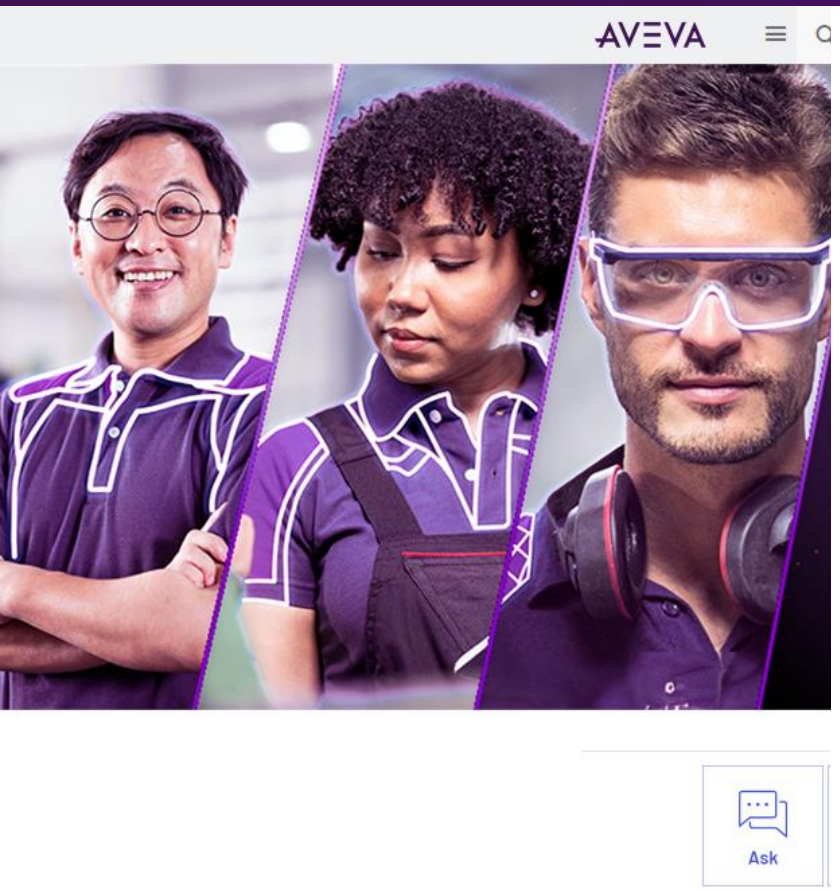

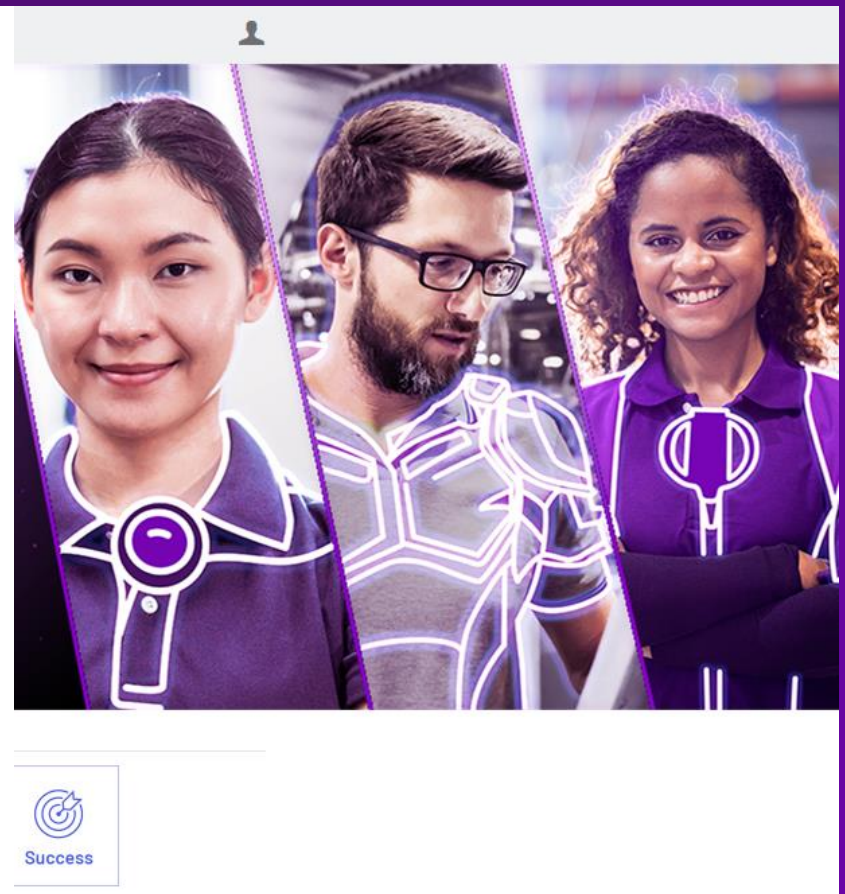

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