

The background is a dark purple gradient. On the left, there are two vertical neon lines, one blue and one magenta, with a horizontal magenta line intersecting the blue one. On the right, a large, glowing magenta arc curves from the top towards the bottom. The text 'AVEVA WORLD' is centered in a white, bold, sans-serif font.

AVEVA WORLD

# AVEVAWORLD

APRIL 9, 2025

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# AVEVA™ Unified Engineering Migration Strategy

*Seamlessly migrating your legacy E&I and P&ID data to AVEVA Unified Engineering*

Eric CARNET, Engineering & Schematics Portfolio Manager, AVEVA

Mariusz MAJEWSKI, Engineering & Schematics Portfolio Manager, AVEVA

# AVEVA

AVEVA WORLD 2025

# Agenda

*Seamlessly migrating your  
legacy P&ID data to AVEVA  
Unified Engineering*

Moscone West Center  
San Francisco

Standardisation is the Key for success

## Migration process overview

- Migration process step by step
- Migration process tests & results
- Migration process export facilities
- Migration process import facilities
- Migration process demo

Migration strategy additional possibility – AI/ML Legacy  
P&ID recognition

# Eric CARNET

Engineering & Schematics Portfolio Manager

**AVEVA**

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# AVEVA Unified Engineering: Legacy P&IDs migration strategy

## Standardisation is the Key for success



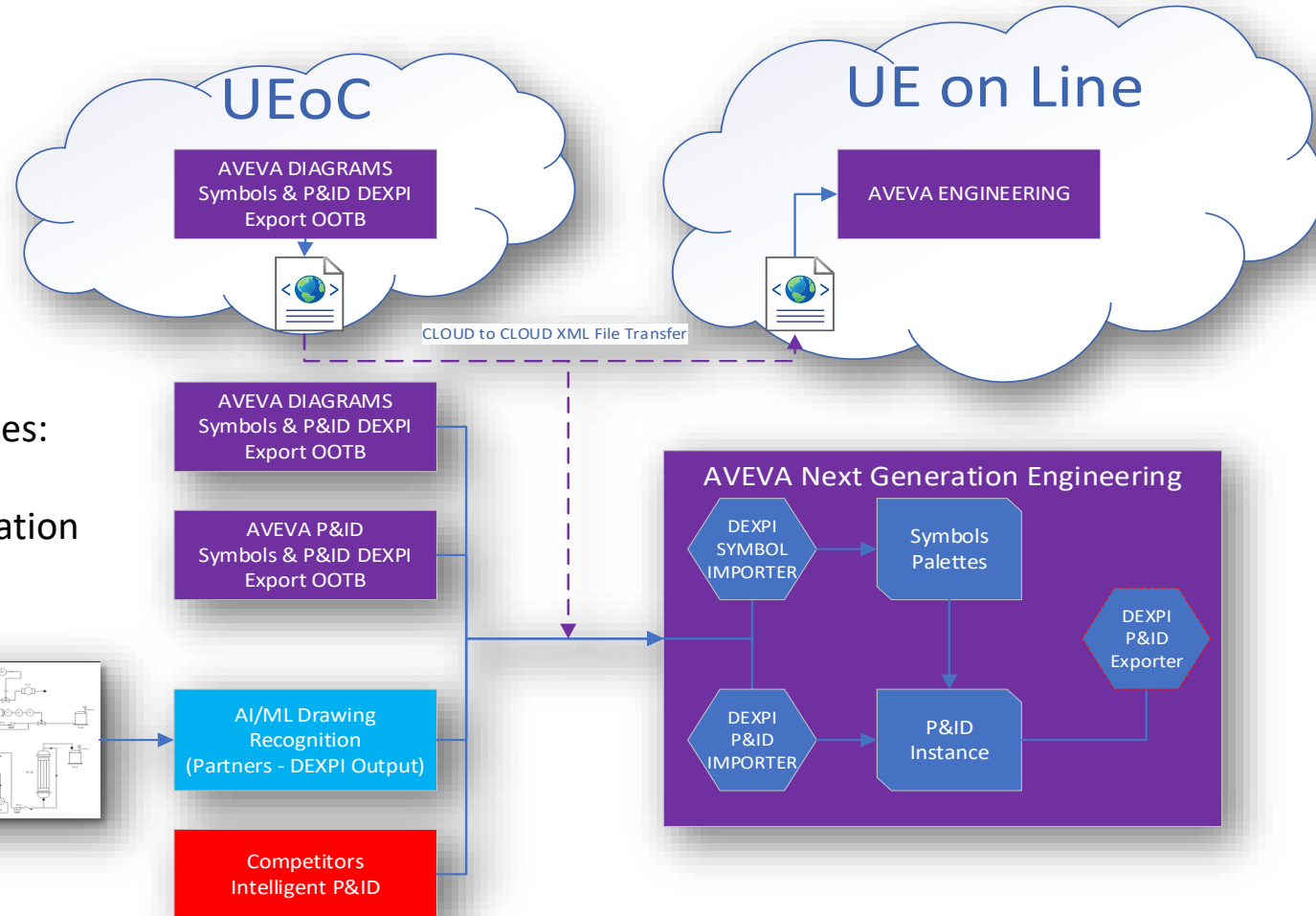
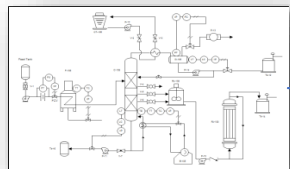
- We've decided as part of our evolution journey, that standardisation is key for success



- Legacy migration strategy based on proven technologies:
  - AVEVA compare / update → 100% data migration
  - DEXPI standard schema. → 100% Connectivity migration



- Using standards technologies would also:
  - ✓ reduce development & support effort
  - ✓ reduce customer configuration
  - ✓ Simplify customer process & user interface
  - ✓ Allow migration from various sources





# AVEVA Unified Engineering: Legacy P&IDs migration strategy

## Migration process overview



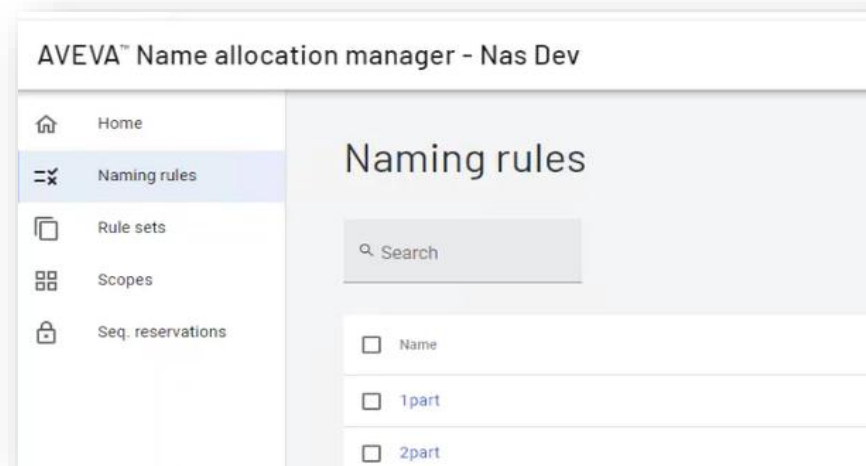
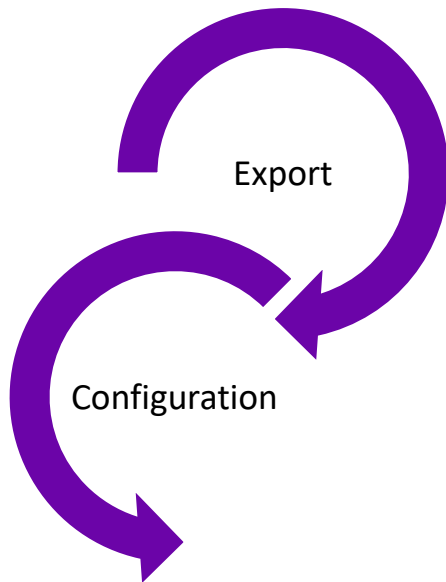
### ❑ Export from legacy (or 3<sup>rd</sup> Parties)

- AVEVA P&ID and AVEVA diagrams have symbols and instance export facilities supporting multiple DEXPI schema (3.3.3 & 4.0.1)
- AI/ML P&ID recognition and competition may support different DEXPI version so please refer to their products documentation.

```
<?xml version="1.0" encoding="UTF-8" ?>
<PlantModel xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="Prot
<PlantInformation SchemaVersion="4.0.1" OriginatingSystem="AVEVAPID" Date="2023-08-18" Time="08:16:19
6
<Extent>
10
<Drawing Name="TestDrawing01" Type="PID" Revision="" Title="" >
6101
<ShapeCatalogue Name="Symbol Library" >
9999
<PipingNetworkSystem ID="XMP 3" TagName="50-SW-001-S1A-5L" ComponentClass="PipingNetworkSystem" Speci
10282
<SignalLine ID="XMP 4" ComponentClass="ELECTRIC" >
10370
<SignalLine ID="XMP 5" ComponentClass="ELECTRIC" >
10477
<SignalLine ID="XMP 6" ComponentClass="ELECTRIC" >
10631
<PipingNetworkSystem ID="XMP 7" TagName="80-ME-002-S1A-5L" ComponentClass="PipingNetworkSystem" Speci
11086
<SignalLine ID="XMP 8" ComponentClass="DATA LINK" >
11140
<SignalLine ID="XMP 9" ComponentClass="ELECTRIC" >
11227
<PipingNetworkSystem ID="XMP 10" TagName="100-ME-003-S1A-6L" ComponentClass="PipingNetworkSystem" Spe
12541
<PipingNetworkSystem ID="XMP 11" ComponentClass="PipingNetworkSystem" ComponentClassURI="http://data.
12852
<PipingNetworkSystem ID="XMP 12" ComponentClass="PipingNetworkSystem" ComponentClassURI="http://data.
13163
<PipingNetworkSystem ID="XMP 13" ComponentClass="PipingNetworkSystem" ComponentClassURI="http://data.
13319
<PipingNetworkSystem ID="XMP 14" ComponentClass="PipingNetworkSystem" ComponentClassURI="http://data.
13356
<PipingNetworkSystem ID="XMP 15" ComponentClass="PipingNetworkSystem" ComponentClassURI="http://data.
13524
<PipingNetworkSystem ID="XMP 16" ComponentClass="PipingNetworkSystem" ComponentClassURI="http://data.
13561
<PipingNetworkSystem ID="XMP 17" ComponentClass="PipingNetworkSystem" ComponentClassURI="http://data.
13722
<SignalLine ID="XMP 18" ComponentClass="ELECTRIC" >
13875
<SignalLine ID="XMP 19" ComponentClass="DATA LINK" >
```

# AVEVA Unified Engineering: Legacy P&IDs migration strategy

## Migration process overview



### Configuration

- We have implemented facilities into AVEVA Engineering configuration module to allow classes and attributes mapping using mapping form to facilitate data migration.
- As symbols are assigned to classes in conceptual model, mapping DEXPI classes with conceptual classes will map symbols.
- Some improvement are ongoing development as you would see in the next slides.

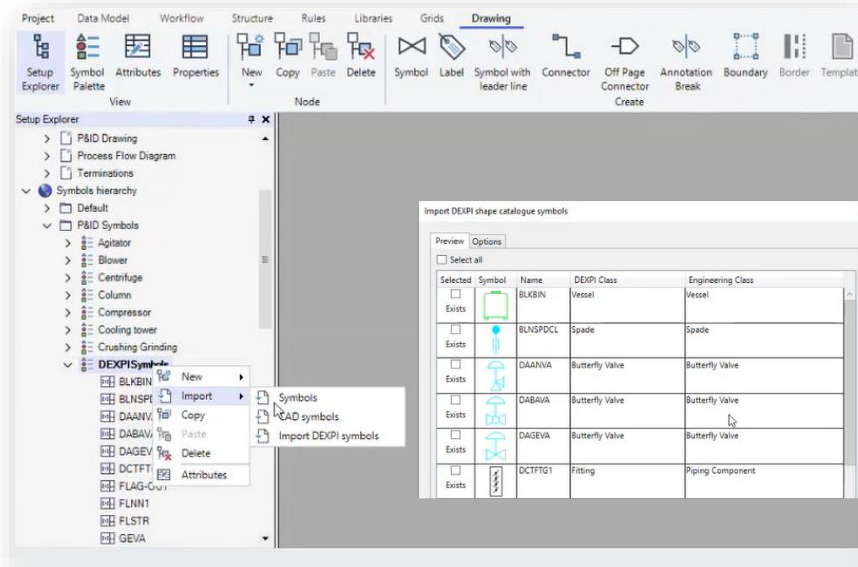
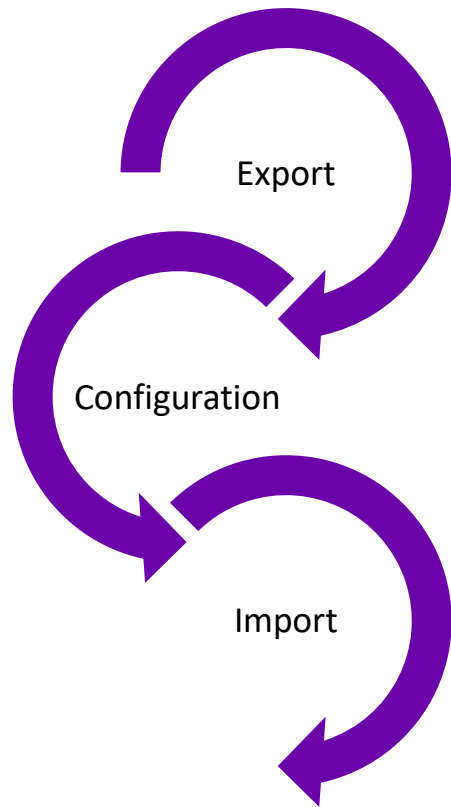
### Tag format

- Tag format and attribute used on the tag need to be defined and mapped into NAM and Project to allow ENGITEM creation during P&ID Instance import step.

DEXPI Schema	DEXPI Schema URI	Engineering Tag
PipingNetworkSystem	PipingNetworkSystem	Piping Network System
ELECTRIC	ELECTRIC	Signal Line
PipingNetworkSegment	PipingNetworkSegment	Piping Network Segment
CenterLine	CenterLine	Piping Connection
Vessel	Vessel	Vessel
Pump	Pump	Pump
FlowController	FlowController	Flow Controller
FlowIndicator	FlowIndicator	Indicating Instrument
FlowTransmitter	FlowTransmitter	Flow Transmitter
LevelAlarmControlElement	LevelAlarmControlElement	Level Indicator
PressureIndicator	PressureIndicator	Pressure Element
GlobeValve	GlobeValve	Globe Valve
Butterfly Valve	Butterfly Valve	Butterfly Valve
Spade	Spade	Spade
Nozzle	Nozzle	Nozzle
MeasuringRelay	MeasuringRelay	Measuring Relay
Fitting	Fitting	Piping Component

# AVEVA Unified Engineering: Legacy P&IDs migration strategy

## Migration process overview

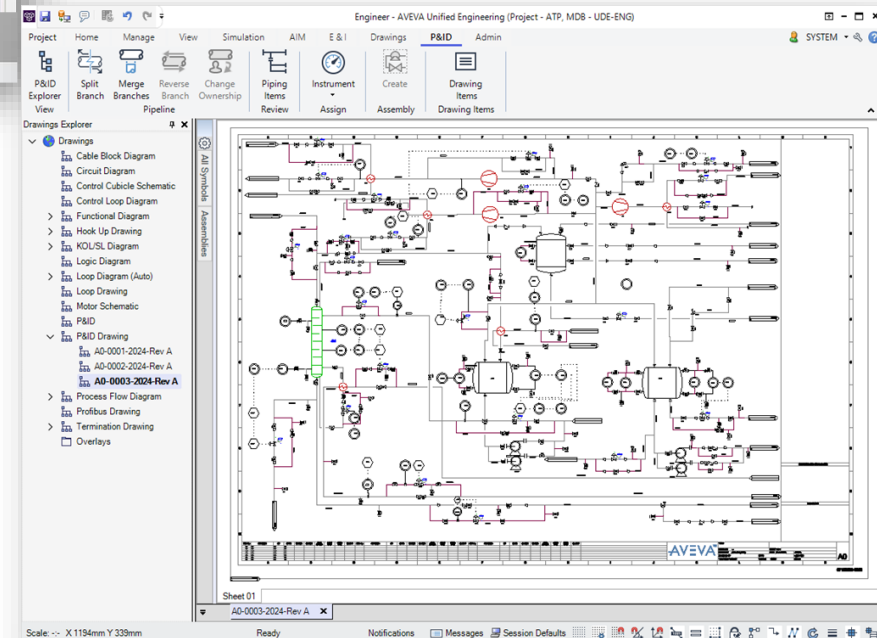


### ❑ P&ID instance import facilities

- P&ID instance could be imported in Engineering module
- We support DEXPI Schema 3.3.3, 4.0.1 and 4.1.1.
- Import facilities could manage, single or bulk import and import for creation and/or upgrade (import to replace existing drawing)

### ❑ Symbols import facilities

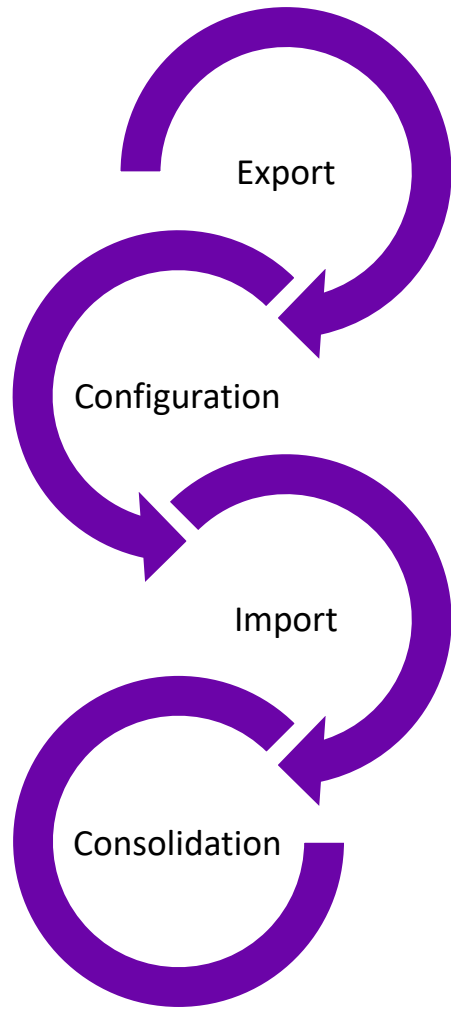
- UE P&ID discipline includes OOTB Import facilities for symbols import in configuration module





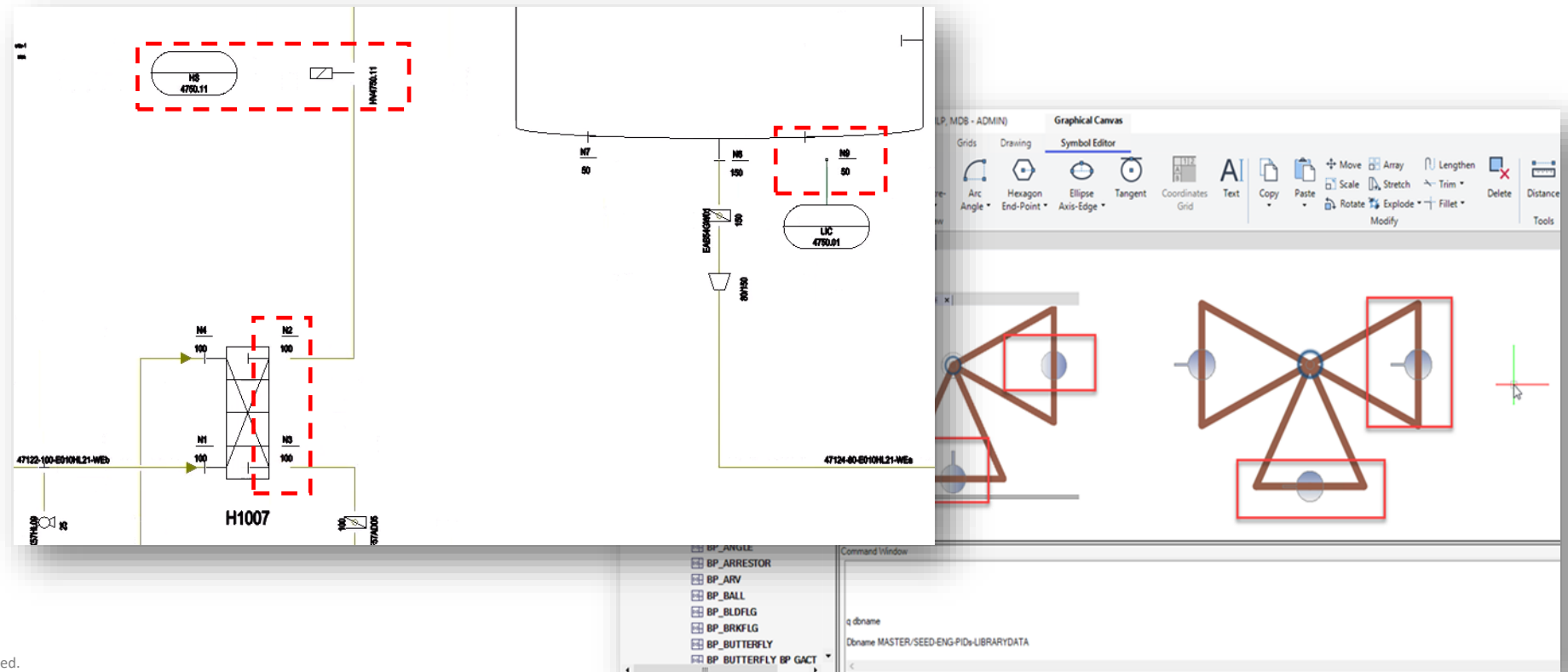
# AVEVA Unified Engineering: Legacy P&IDs migration strategy

## Migration process overview



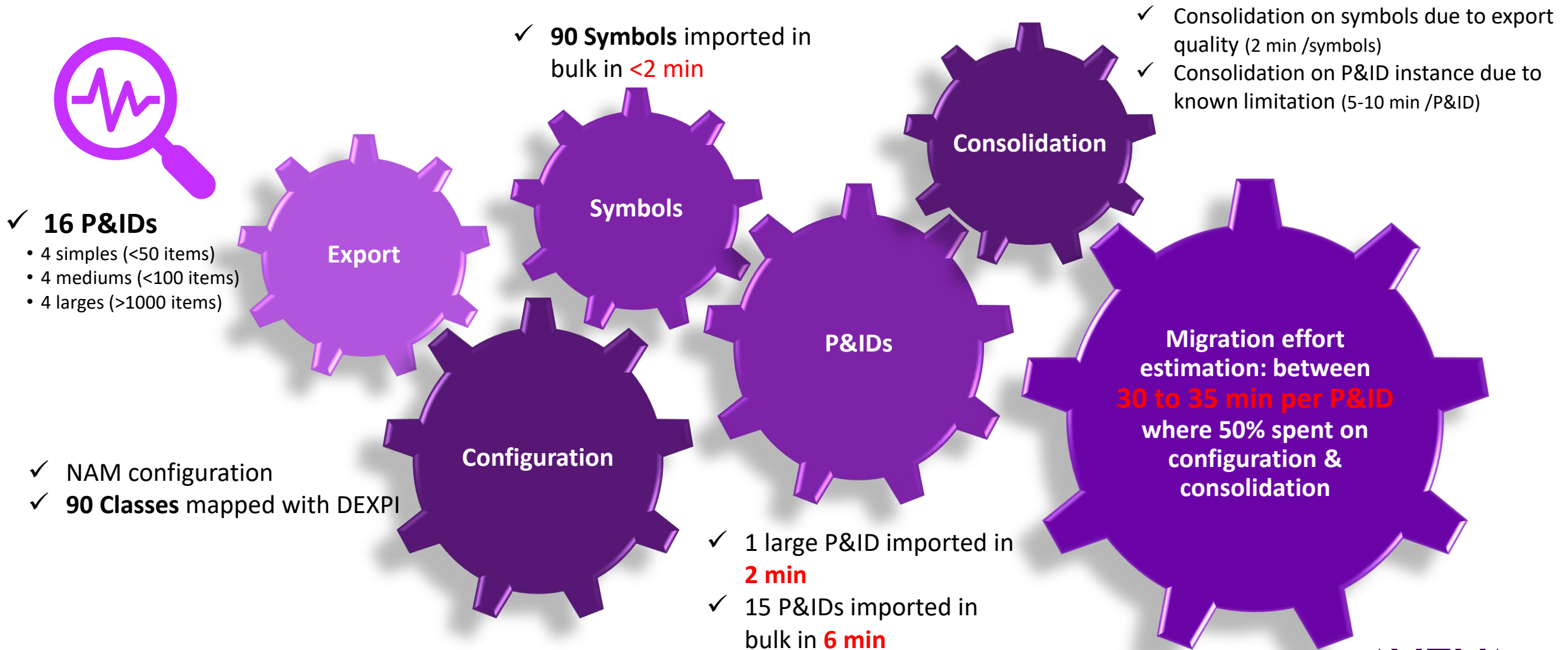
### □ Consolidation

- Due to some DEXPI schema limitation and technology changes (legacy vs Next Gen) some graphical alignment and consolidation may be requested .



# AVEVA Unified Engineering: Legacy P&IDs migration strategy

## Migration process tests & results



# AVEVA Unified Engineering: Legacy P&IDs migration strategy

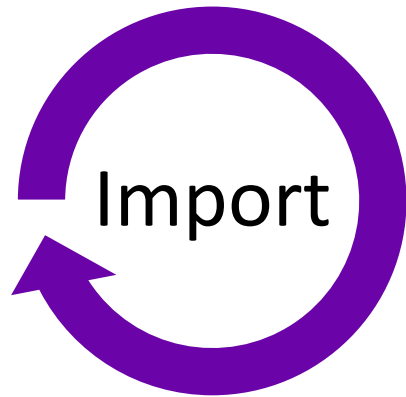
## Migration Process Export facilities



EXPORT FACILITIES		AVEVA DIAGRAMS	AVEVA P&ID	COMMENTS
DEXPI SCHEMA	3.3.3	✓	✓	
	4.0.1	✓	✓	
	4.1.1	✗	✗	
Symbols	Stencils	!	!	Only if using DEXPI
	Graphics	✓	✓	CAD & DEXPI
	Insertion Pt	!	!	Only if using DEXPI
	Connection Pt	!	!	Only if using DEXPI
P&ID	Instance	✓	✓	CAD = Dumb overlay
	Bulk	✓	✓	Only if using DEXPI
	Revision	✗	✗	
Configuration	Project settings	✗	✗	
	User list	✗	✗	
	Naming Rules	✗	✗	
	PBS	✗	✗	

# AVEVA Unified Engineering: Legacy P&IDs migration strategy

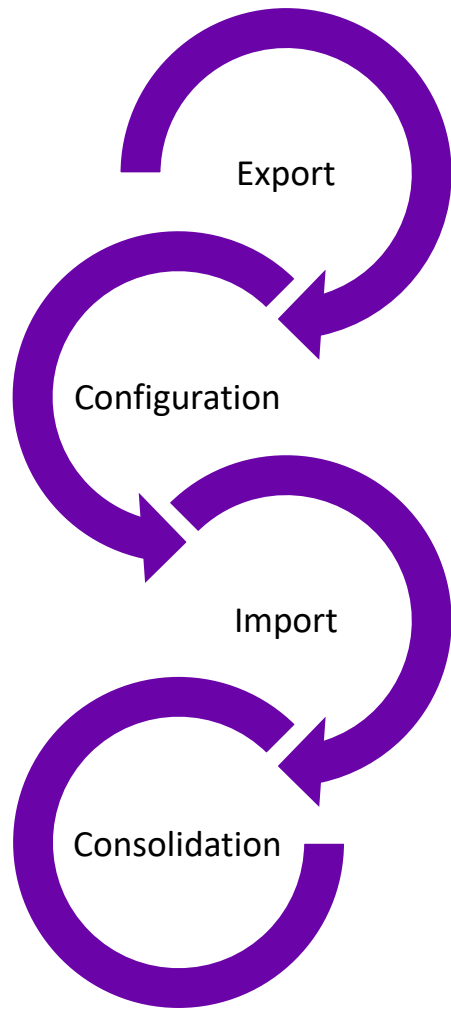
## Migration process import facilities



Import FACILITIES		UE3.0	UE3.1	COMMENTS
DEXPI Schema	3.3.3	✓	✓	
	4.0.1	✓	✓	
	4.1.1	!	✓	Not officially supported
Symbols	Stencils	!	!	Only if using DEXPI
	Graphics	✓	✓	CAD & DEXPI
	Insertion Pt	!	!	Only if using DEXPI
	Connection Pt	!	!	Only if using DEXPI
P&ID	Instance	✓	✓	CAD = Dumb overlay
	Bulk	✓	✓	Only if using DEXPI
	Revision	✗	✗	
Special object	Custom Line type	✗	✗	DEXPI Schema limitation
	Smart Shape	✗	✗	DEXPI Schema limitation
	Area Shape	✗	✗	DEXPI Schema limitation
	OPC	!	!	only if using 4.1.1
	secondary Shape	!	!	Request Specific mapping

# AVEVA Unified Engineering: Legacy P&IDs migration strategy

## Migration process demo





# AVEVA Unified Engineering: Legacy P&IDs migration strategy

## Migration strategy additional possibility – AI/ML Legacy P&ID recognition

- With all the tools available and performant on market, we've decided not to reinvent the wheel and to partnership with AI/ML service companies.
- P&ID recognition using AI/ML are more and more performant and can rapidly convert dumb CAD drawings and to follow our strategy to success we've requested DEXPI file as output of AI/ML Tools

**Step 1**

Tool configuration:  
Prep AI/ML learning Customer symbols libraries

**Step 2**

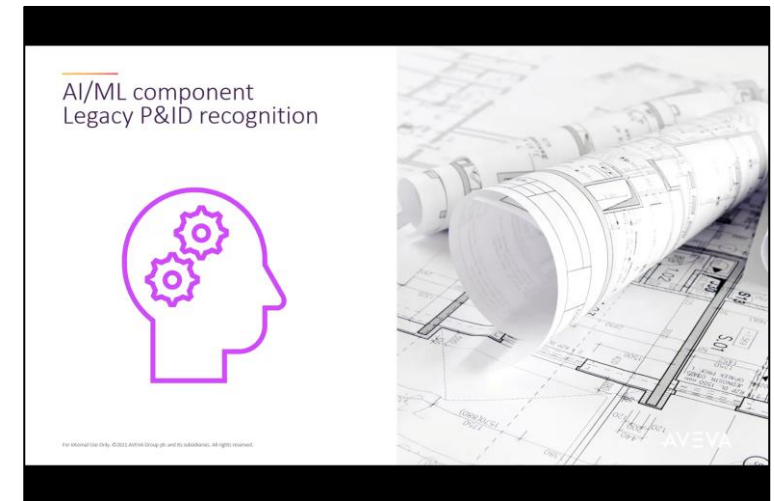
P&ID recognition:  
AI/ML scan all drawing and identify symbols, connectivity and text  
Average result 70-80% completion  
Could have 90% on some very simple drawing like PFD  
Input format supported:  
PDF, JPEG, DWG ...

**Step 3**

Consolidation:  
Manual task possibility to arrange, edit or confirm AI decision from Step 2  
Graphic viewer and XLS like viewer available

**Step 4**

Conversion and export:  
Application convert all extracted data & graphics into a DEXPI file to be used by AVEVA Next Generation Engineering





AVEVA WORLD 2025

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# Agenda

*Seamlessly migrating your  
legacy E&I data to AVEVA  
Unified Engineering*

Moscone West Center  
San Francisco

## AVEVA Electrical and AVEVA Instrumentation

End of Sales and End of Life announcement

Do I need migration?

## Migration steps

# Mariusz Majewski

Engineering & Schematics Portfolio Manager

**AVEVA**

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## End of Sales and End of Life announcement



AVEVA™ Electrical and AVEVA™ Instrumentation  
Customer Announcement

At this date, the software product cited in this announcement will be officially withdrawn, the product will not be sold, maintained or supported.

**□ Key dates:**

- **January 31st, 2024 – End of Sale for new customers**
- **December 31st, 2025 – End of Renewals**
- **December 31st, 2026 – End of Life**

one versions of AVEVA  
g. These features are being  
ised by our development

developing a comprehensive  
ing configurations and project

nd will review each migration  
's migration, please contact

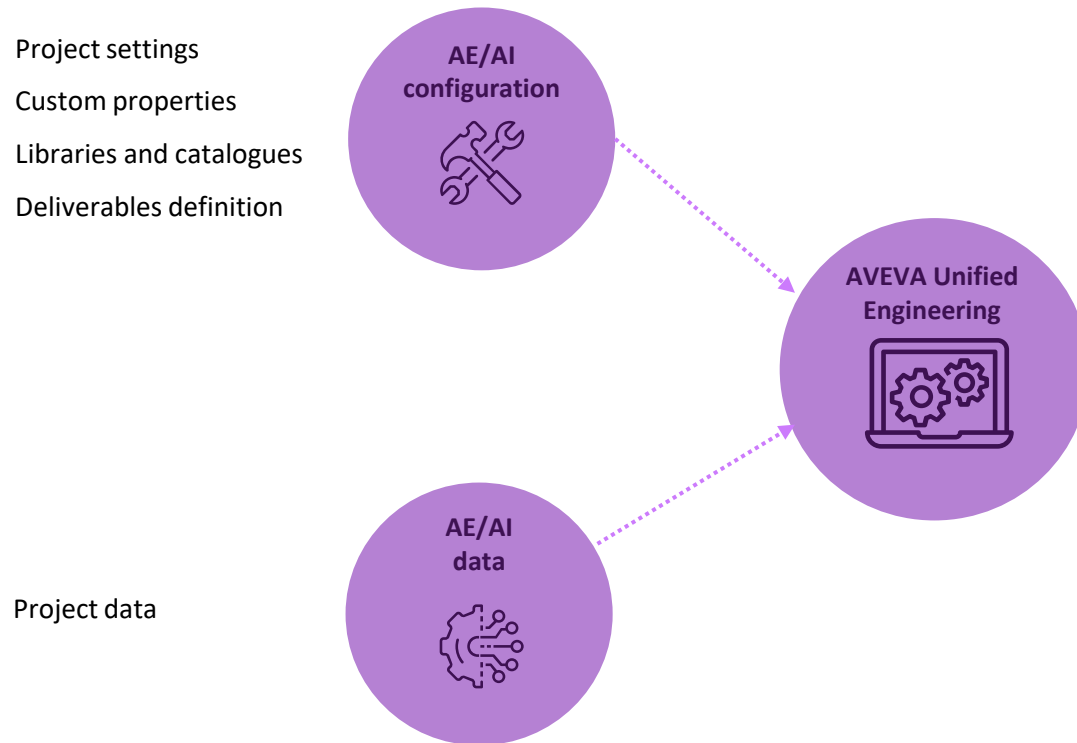
5) [website](#) for more Product  
any's implementation, please

This is the last day that a customer may renew their existing licence(s) however, any renewed contract's length cannot exceed the End-of-Life date (below).

AVEVA

# AVEVA Unified Engineering: Legacy E&I migration strategy

## Do I need migration?



### Pre-migration process:

- Assessment of current needs and objectives

### Migration process:

- Migration of configuration
- Migration of data (if applicable)

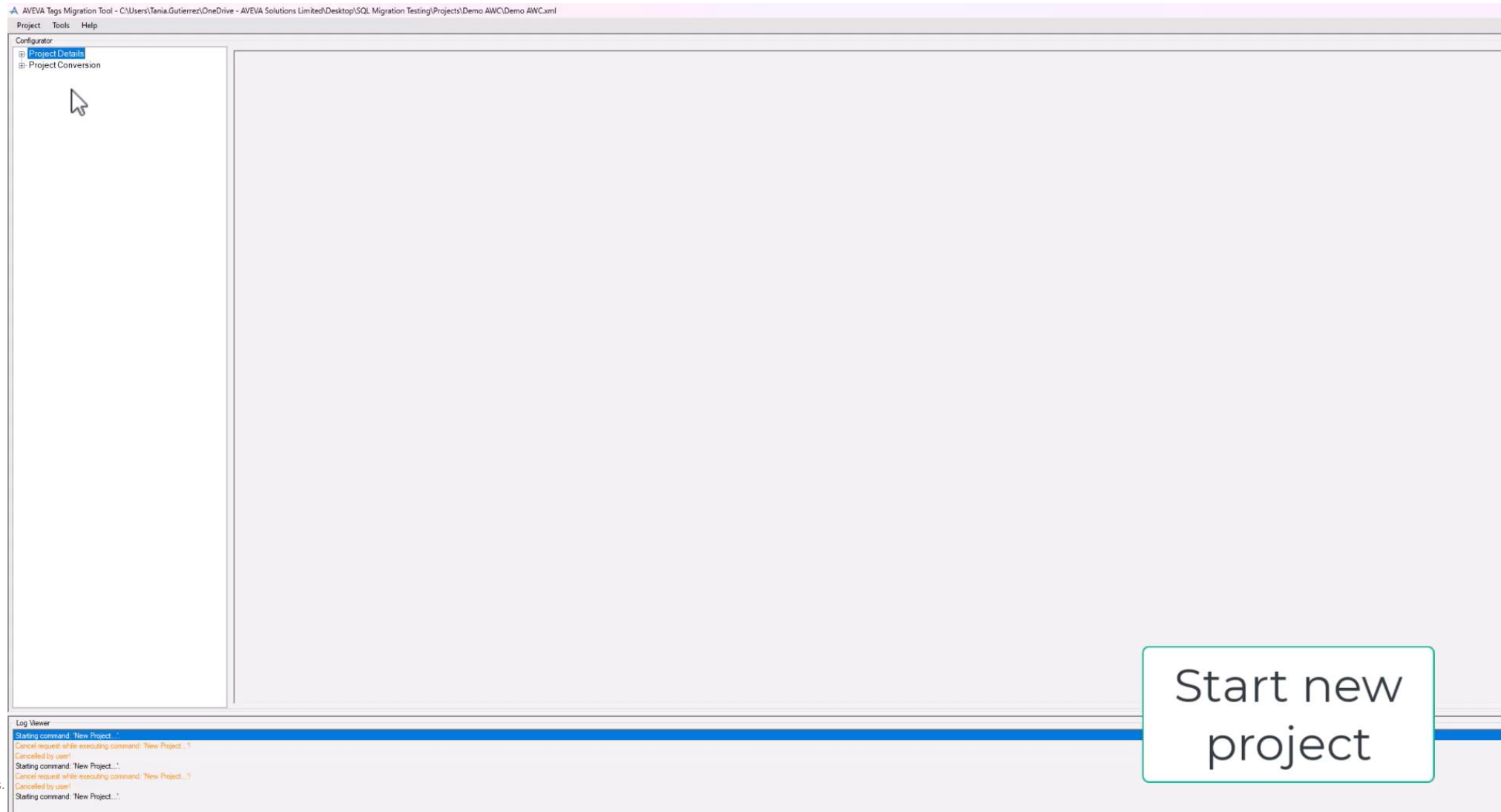
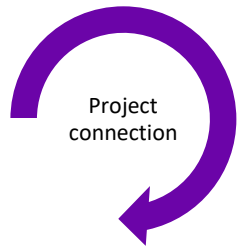
### Benefits of the migration:

- Enhanced data management: Flexible data model, controlled object revisioning
- Access to advanced features: Drawing engine, Datasheet reports, all new features from Unified Engineering
- Improved collaboration and holistic engineering
- Future-proofing



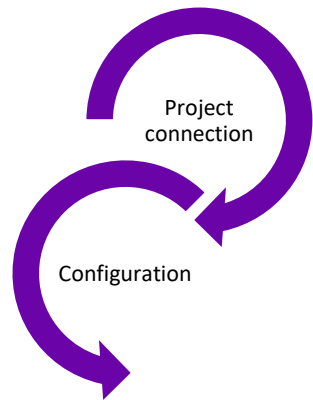
# AVEVA Unified Engineering: Legacy E&I migration strategy

## Configuration migration process overview – connect projects



# AVEVA Unified Engineering: Legacy E&I migration strategy

## Configuration migration process overview – configure models



AVEVA Tags Migration Tool - C:\Users\Tania.Gutierrez\OneDrive - AVEVA Solutions Limited\Desktop\SQL Migration Testing\Projects\Demo AWC\Demo AWC.xml

Project Tools Help

Configurator

- Project Details
  - Common Settings
  - Conceptual Model
  - DB Views and Data Sources
  - Mapping
  - Miscellaneous
- Project Conversion

**Common Settings**

Database Source

Server Name: GBCHL11294\SQLEXPRESS2019

Database Name: AEAIDemo

Master Project

Project: MLP

User: SYSTEM

Password: \*\*\*\*\*

MDB: /ADMIN

Options

Engineering Project

Project:

User:

Password:

MDB:

Options

Ontology

CM File: \Input\ConceptualModel.owl

DB File: \Input\DatabaseDefinition.owl

Extract CM Import CM Publish to DB Extract DB

Configuration

Config Folder: C:\Users\Public\Documents\AVEVA\USERDATA\EPT\Data\Excel

List of Elements: Extract \Input\CachedElements.csv

List of Attributes: Extract \Input\CachedAttributes.csv

Save Defaults Load Defaults Re-Extract Re-Cache

**Log Viewer**

Loading assembly: AVEVA.Core.Implementation, Version=2.0.0.0, Culture=neutral, PublicKeyToken=17c64733a9775004

Loading assembly: StartUp3D, Version=2.0.0.0, Culture=neutral, PublicKeyToken=17c64733a9775004

Loading assembly: AVEVA.Connect.Sdk.Authentication, Version=27.8.0.0, Culture=neutral, PublicKeyToken=11499493939a0

Loading assembly: AVEVA.ApplicationFramework.Implementation.resources, Version=7.0.0.0, Culture=en-GB, PublicKeyToken=17c64733a9775004

Loading assembly: AVEVA.ApplicationFramework.Implementation.resources, Version=7.0.0.0, Culture=en, PublicKeyToken=17c64733a9775004

Loading assembly: DuctNet, Version=1.0.0.0, Culture=neutral, PublicKeyToken=17c64733a9775004

Loading assembly: ForeignLanguage, Version=3.0.0.0, Culture=neutral, PublicKeyToken=17c64733a9775004

Loading assembly: AVEVA.Spectrum.Utility.RegistryClient, Version=1.0.0.0, Culture=neutral, PublicKeyToken=17c64733a9775004

Loading assembly: AVEVA.Spectrum.Utility.EnvironmentClient, Version=1.0.0.0, Culture=neutral, PublicKeyToken=17c64733a9775004

Loading assembly: Microsoft.Extensions.Logging.Abstractions, Version=3.0.3.0, Culture=neutral, PublicKeyToken=adb9793829ddae60

Command: Project Selector executed with success.

Starting command: "Save Project..."

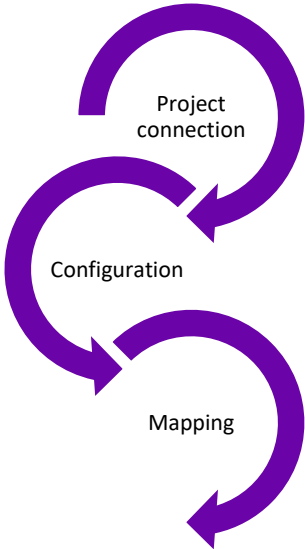
C:\Users\Tania.Gutierrez\OneDrive - AVEVA Solutions Limited\Desktop\SQL Migration Testing\Projects\Demo AWC\Demo AWC.xml

Command: "Save Project..." executed with success.

Read DABACON data model

# AVEVA Unified Engineering: Legacy E&I migration strategy

## Configuration migration process overview – data model mapping and translation



Project Details

Common Settings

Conceptual Model

Conceptual Model Class

Cable Class Generator

Control Loop Class Generator

Control Loop Attributes

Equipment Class Generator

Equipment Attributes and Properties

Instrument Class Generator

Instrument Attributes and Properties

Pick List of Values

DB Views and Datasheets

Mapping

Miscellaneous

Project Conversion

Instrument Class Generator

Active	Operation	ClassName	ISAFunc	Description	Base Element Type	Base Element Description	Base Element Type 2	Base Element Description 2	Element Type	Element Description
<input checked="" type="checkbox"/>		Analysis	AAH	Analysis Alarm High						
<input type="checkbox"/>		Analysis	AAL	Analysis Alarm Low						
<input type="checkbox"/>		Analysis	AC	Analysis Controller						
<input type="checkbox"/>		Analysis	AE	Analysis Element						
<input type="checkbox"/>		Analysis	AFC	Analysis Ratio Controller						
<input type="checkbox"/>		Analysis	AFY	Analysis Ratio Compute						
<input type="checkbox"/>		Analysis	AI	Analysis Indicator						
<input type="checkbox"/>		Analysis	AIC	Analysis Indicating Controller						
<input type="checkbox"/>		Analysis	AIQ	Analysis Indicating Totalizer						
<input type="checkbox"/>		Analysis	AIT	Analysis Indicating Transmitter						
<input type="checkbox"/>		Analysis	AP	Analysis Point						
<input type="checkbox"/>		Analysis	AQ	Analysis Totalizer						
<input type="checkbox"/>		Analysis	AR	Analysis Record						
<input type="checkbox"/>		Analysis	AS	Analysis Switch						
<input type="checkbox"/>		Analysis	ASH	Analysis Switch High						
<input type="checkbox"/>		Analysis	ASL	Analysis Switch Low						
<input type="checkbox"/>		Analysis	AT	Analysis Transmitter						
<input type="checkbox"/>		Analysis	AY	Analysis Compute						
<input type="checkbox"/>		Current	IE	Current Element						
<input type="checkbox"/>		Current	II	Current Indicator						
<input type="checkbox"/>		Current	ISH	Current Switch High						
<input type="checkbox"/>		Current	ISL	Current Switch Low						
<input type="checkbox"/>		Current	IT	Current Transmitter						
<input type="checkbox"/>		Current	IY	Current Compute						
<input type="checkbox"/>		Density	DE	Density Element						
<input type="checkbox"/>		Density	DI	Density Indicator						
<input type="checkbox"/>		Density	DIT	Density Indicating Transmitter						
<input type="checkbox"/>		Density	DT	Density Transmitter						
<input type="checkbox"/>		Dimension	GE	Dimension Element						
<input type="checkbox"/>		Event	YAH	Event Alarm High						
<input type="checkbox"/>		Event	YAL	Event Alarm Low						
<input type="checkbox"/>		Event	YC	Event Controller						
<input type="checkbox"/>		Event	YE	Event Element						
<input type="checkbox"/>		Event	YI	Event Indicator						
<input type="checkbox"/>		Event	YIC	Event Indicating Controller						
<input type="checkbox"/>		Event	YL	Event Light						
<input type="checkbox"/>		Event	YR	Event Recorder						

Filter

ClassName

Equals

ALL

ISAFunc

Equals

ALL

Used Only

Update

Refresh

Save Defaults

Load Defaults

Validate

Auto Mapping

Log Viewer

> AEADemo

Dumping Data...

Fetches 741 records from database

Loading assembly: System.Data.XmlSerializers, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089

Connecting SQL Server...

Opening database...

> AEADemo

Dumping Data...

Fetches 1035 records from database

Loading assembly: System.Data.XmlSerializers, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089

Command: ID, CMD, KEY, GET, SQL, SCHEMA, executed with success

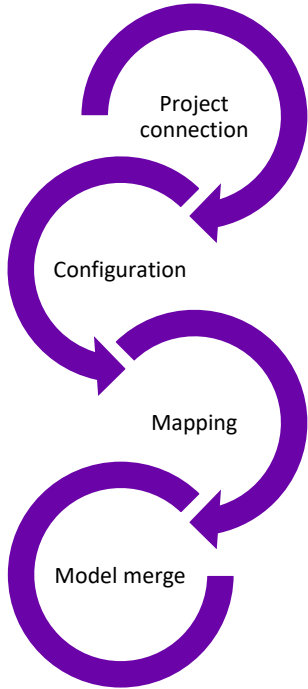
Starting command: Save Project...

C:\Users\Tania.Gutierrez\OneDrive - AVEVA Solutions Limited\Desktop\SQL Migration Testing\Projects\Demo AWC\Demo AWC.xml

Command: Save Project... executed with success

# AVEVA Unified Engineering: Legacy E&I migration strategy

## Configuration migration process overview – model merge



AVEVA Tags Migration Tool - C:\Users\Tania.Gutierrez\OneDrive - AVEVA Solutions Limited\Desktop\SQL Migration Testing\Projects\Demo AWC\Demo AWC.xml

Project Tools Help

Configurator

- Project Details
  - Common Settings
  - Conceptual Model
    - Conceptual Model Class
    - Cable Class Generator
    - Cable Attributes
    - Control Loop Class Generator
    - Control Loop Attributes
    - Equipment Class Generator
    - Equipment Attributes and Properties
    - Instrument Class Generator
    - Instrument Attributes and Properties
      - Pick List/List of Values
  - DB Views and Datasheets
- Mapping
  - Miscellaneous
  - Project Conversion

Instrument Attributes and Properties

Active	Pickup List	Pickup List Def	Datasheet	Object Type	Data Type	Type	Name	Caption	Existing Attribute	Attribute Class	New Attribute	Description	Discipline	Data Type	Allowed Classes
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...			ATTR	PlantConnection	Assoc Equip							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...			ATTR	IService1	Instrument Service	Instrument Service	Instrument					
<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer	RT-AI-DSH-102, RT-AI-DSH-103, R...			ATTR	Manufacturer	Manufacturer	Manufacturer	Hook Up Component					
<input type="checkbox"/>	<input type="checkbox"/>	ModelNo	RT-AI-DSH-102, RT-AI-DSH-103, R...			ATTR	ModelNo	ModelNo							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...			ATTR	TagNo	TagNo							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-202, RT-AI-DSH-403, R...			ATTR	VendorSupplied	VendorSupplied							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-202, RT-AI-DSH-403, R...			ATTR	ExCertAuthority	ExCertificateNo			Ex Certification Auth...	Ex Certification Auth...	Common	string	Level Element
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-104, RT-AI-DSH-106, R...			ATTR	ExCertificateNo	ExCertificateNo							
<input type="checkbox"/>	<input type="checkbox"/>	IngressProtection	RT-AI-DSH-104, RT-AI-DSH-106, R...			ATTR	IngressProtection	IngressProtection							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-103, RT-AI-DSH-104, R...			ATTR	AreaClassification	AreaClassification	Area Classification	Induction Machine					Level Element
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...			ATTR	iGeoLocation	GeoLocation							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Process Data	Text	PROP	FluidName	FluidName	Fluid Name	Material Amount Bulk					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Process Data	Text	PROP	FluidState	FluidState	Fluid State	Material Amount Bulk					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Process Data	Text	PROP	CorrosiveProperties	CorrosiveProperties							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Process Data	Text	PROP	PressureMax	PressureMax							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Process Data	Text	PROP	PressureNormal	PressureNormal							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Process Data	Text	PROP	PressureDesign	PressureDesign							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Process Data	Text	PROP	TemperatureMax	TemperatureMax							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Process Data	Text	PROP	TemperatureNormal	TemperatureNormal							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Process Data	Text	PROP	TemperatureDesign	TemperatureDesign							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Process Data	Text	PROP	DensityNormal	DensityNormal							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-103, RT-AI-DSH-202, R...	Process Data	Text	PROP	UpperFluidName	UpperFluidName	Upper Fluid Name	Operating Conditions					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-103, RT-AI-DSH-202, R...	Process Data	Text	PROP	UpperFluidState	UpperFluidState	Upper Fluid State	Operating Conditions					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-103, R...	Instrument Data	Text	PROP	Field15	Purchase Order Number							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-106, R...	Instrument Data	Text	PROP	Field19	Serial Number	Serial Number	Item					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-103, RT-AI-DSH-104, R...	Instrument Data	Text	PROP	Field62	Application	Application	Instrument					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-103, RT-AI-DSH-202, R...	Instrument Data	Text	PROP	Field80	Body Material	Body Material	Steam Trap					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-202, RT-AI-DSH-205, R...	Instrument Data	Text	PROP	Field81	Body Rating	Body Rating	Transmitter					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-107, RT-AI-DSH-202, R...	Instrument Data	Text	PROP	Field96	Calibration	Calibration	Instrument					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-202, RT-AI-DSH-205, R...	Instrument Data	Text	PROP	Field101	Capillary Length	Capillary Length	Temperature Gauge					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-202, RT-AI-DSH-205, R...	Instrument Data	Text	PROP	Field102	Capillary Material	Capillary Material	Temperature Gauge					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-202, RT-AI-DSH-205, R...	Instrument Data	Text	PROP	Field103	Capillary Type	Capillary Type	Pressure Transmitter					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-104, RT-AI-DSH-106, R...	Instrument Data	Text	PROP	Field110	Certificate Expiry							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-104, RT-AI-DSH-106, R...	Instrument Data	Text	PROP	Field111	Certificate No							
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-107, RT-AI-DSH-202, R...	Instrument Data	Text	PROP	Field112	Certification	Certification	Instrument					
<input type="checkbox"/>	<input type="checkbox"/>		RT-AI-DSH-102, RT-AI-DSH-107, R...	Instrument Data	Text	PROP	Field117	Cleaning	Cleaning	Instrument					

Filter

Datasheet Contains RT-AI-DSH-202

Active Equals -ALL-

☐ Used Only

Log Viewer

Fetches 10355 records from database  
Loading assembly: System.Data.XmlSerializers, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e003  
Command 'ID\_CMD\_KEY\_GET\_SQL\_SCHEMA' executed with success.  
Starting command: 'Save Project...'  
C:\Users\Tania.Gutierrez\OneDrive - AVEVA Solutions Limited\Desktop\SQL Migration Testing\Projects\Demo AWC\Demo AWC.xml  
Command 'Save Project...' executed with success.  
Updating cache... (Conceptual Model)  
Cache updated with success.  
Starting Attributes validation...  
Validate finished.  
Updating cache... (Conceptual Model)  
Cache updated with success.  
Starting Attributes validation...  
Validate finished.

DABACON data model input

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# AVEVA Unified Engineering: Legacy P&IDs migration Strategy

## Migration Process facilities

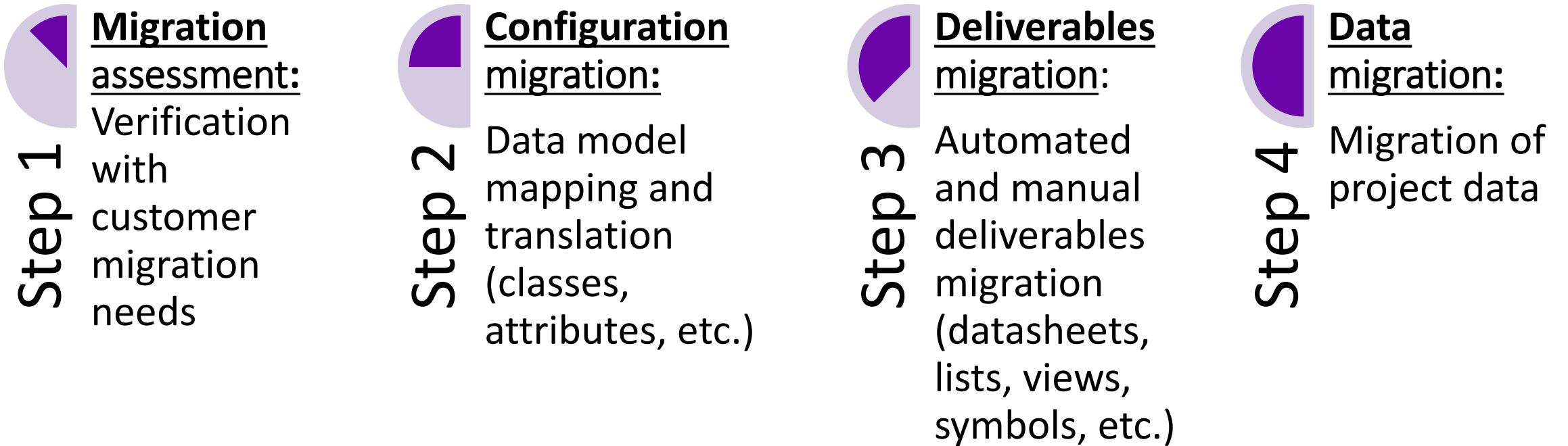
Features		AVEVA Electrical and AVEVA Instrumentation	Comments
Data model	Classes	✓	Common data model for both disciplines in Unified Engineering
	Attributes	✓	
	Properties	✓	
	List of values	✓	
Deliverables	Datasheet	✓	Manual adjustment may be needed
	Lists	✗	Technology change, DBView is an option
	Symbols	!	CAD import with manual adjustment
	Drawing templates	!	CAD import for templates
Configuration	Project settings	!	
	User list	✗	AD need to be setup
	Naming Rules	✗	NAM naming has to be configured and mapped
	Libraries	!	Excel export, not all
Project data	Objects and data instances	!	XML schema required
	Drawing instances	!	Only Hookups and Installation details
	Revision	✗	



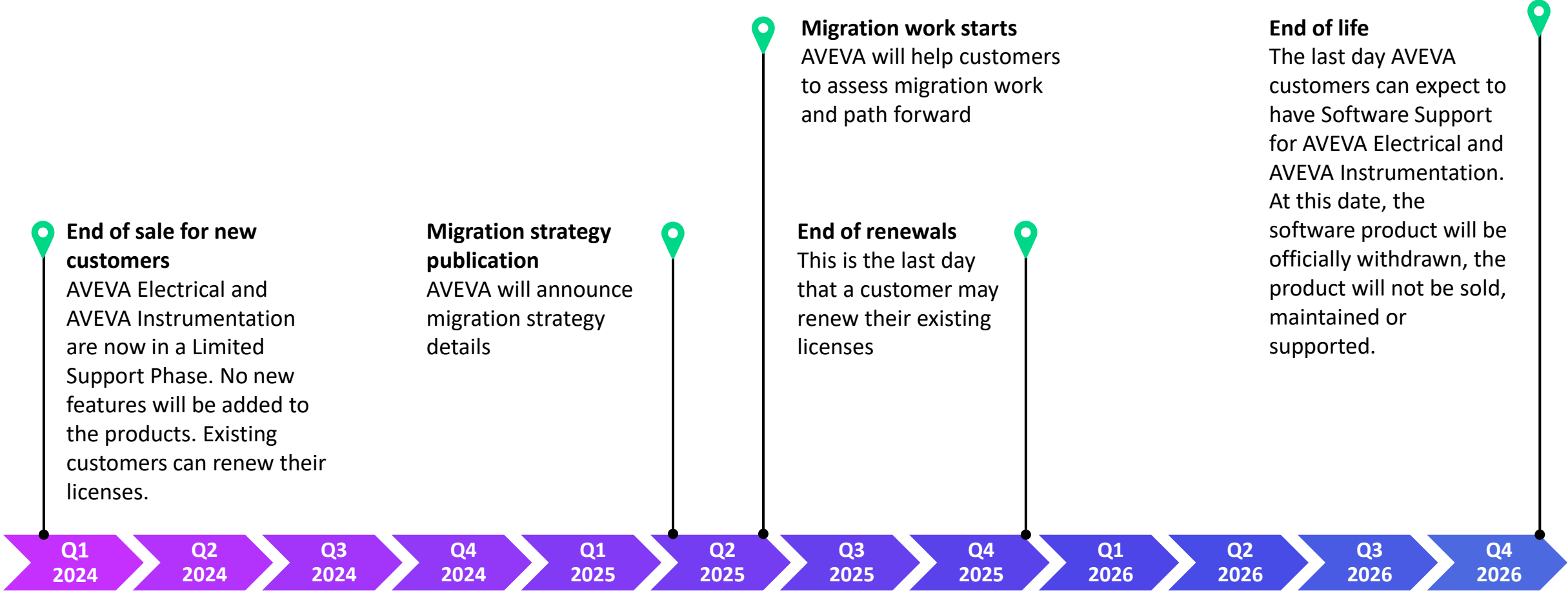
# AVEVA Unified Engineering: Legacy E&I migration strategy

## Migration strategy workflow summary

- E&I tools don't have common data exchange schema like DEXPI – require building custom conversion schema
- Currently we connect only with AVEVA Electrical and AVEVA Instrumentation, in future we may connect to other data sources



# Timeline



# Recommended sessions

## **Saipem : From EPC DIGITAL PLATFORM to AI for Engineering**

Wednesday, 9<sup>th</sup> April 25 @ 2:15 PM

Room 2005/2007

## **Engineering and Capital Projects Improvements – Community session**

Thursday, 10<sup>th</sup> of April 25 @ 10:00 PM

Room 2009/2011





# Visit us!

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

## **Extend value through AVEVA Unified Engineering - Booth 56**

Get a deep dive on AVEVA Unified Engineering and AVEVA Deliverables Management

## **Engineer the plant of the future – Booth 47**



# 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!

# Thank you!





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