



**WINNER
2019**



**TOP 40
2021**



**FINALIST
2021**



**WINNER
2022**



**WINNER Startup-
Award
Automations-
kongress 2022**



WINNER 2022



WINNER 2023

Plug & Play based on semantic Information Models with AML

Semantic Modelling
in Automation
www.semodia.com

semodia

Semodia is...

... a tech company founded in 2019.

... developing vendor agnostic software solutions for modular automation technology

... drive and enable modularization to simplify connectivity and speed up time for data access



Our Semodia Platform is the link to the world of modularization accross industries

Our Focus Areas.



Engineering Intelligence Platform (Flow2Mtp)

Transforms engineering data into intelligent workflows.

- Structured Engineering
- Digital Twin & Simulation
- Automation Generation.



Modularization and ModuleTypePackage

Enables vendor-independent modular automation.

- Open Standards
- Plug & Produce
- Interoperability



Semantic Data Models and AI Readiness

Provide the semantic foundation for connected engineering and AI

- Knowledge Graphs
- Semantic Context
- AI Readiness



Status Quo of the process plant design.



Design of a monolith
process plant

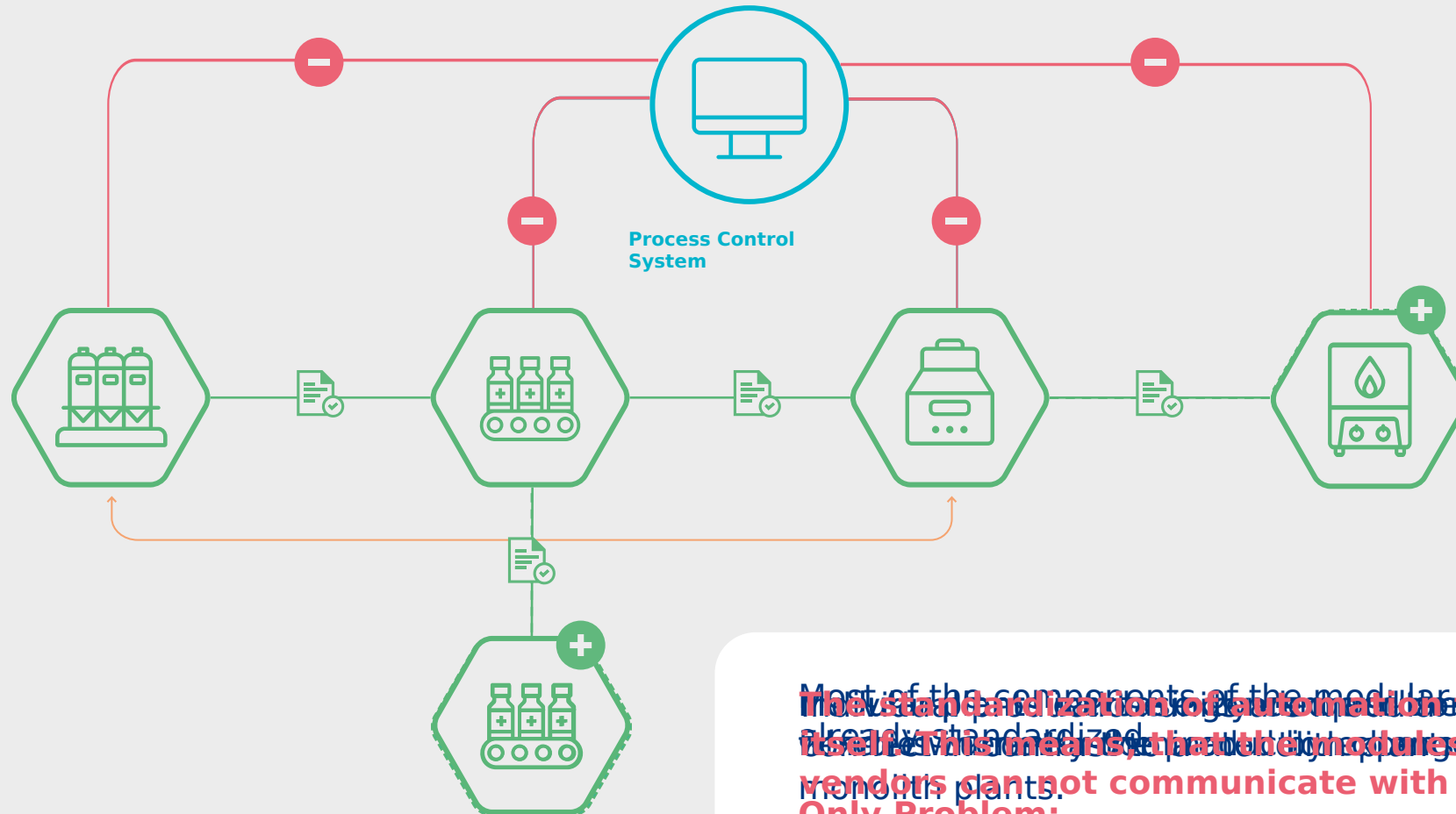


Long time-to-market
(multiple years),
high costs (multiple million
Euros)



Inflexible plants,
demolition instead of
reconfiguration

The Modular Plant.

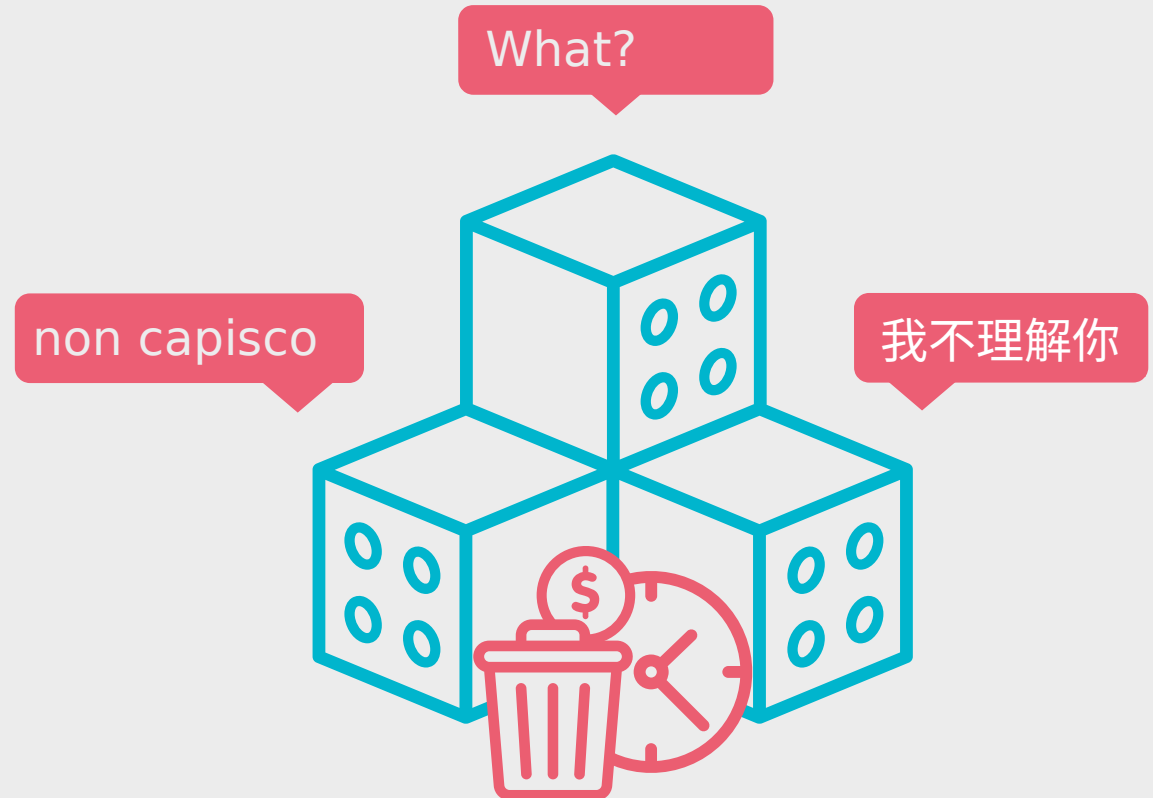


Most of the components of the modular plants are already standardized, but the modules of different vendors can not communicate with each other.
Only Problem:

The problem of modular plants.

Modules in process plants can be connected following the Lego principle, but use all kind of different languages

- Complicated and very costly set up of workarounds, instead of fast and interactive communication and joint work
- Dealbreaker for higher efficiency and innovation in process industry



The solution for modular plants.

Standardized Communication

- Protocols for Signal Transfer
- Interoperability between automation objects
- Many standards available:
 - Modbus
 - Profinet
 - ...
 - OPC UA



→ not enough for modular automation and integration

Information Model

- Machine readable information:
 - Structure
 - Capabilities
 - Interfaces
 - Parameters
 - Visual Representation
 - Integration of (Sub-) Models
- shared understanding



Module Type Package



Important Terms

Automation/Process technology

Modular Plant

Process Equipment
Assembly (PEA)

Functional
Equipment
Assembly (FEA)

Component

Component

Component

Dosing PEA

Intelligent pump FEA

pump

valve

flow sensor

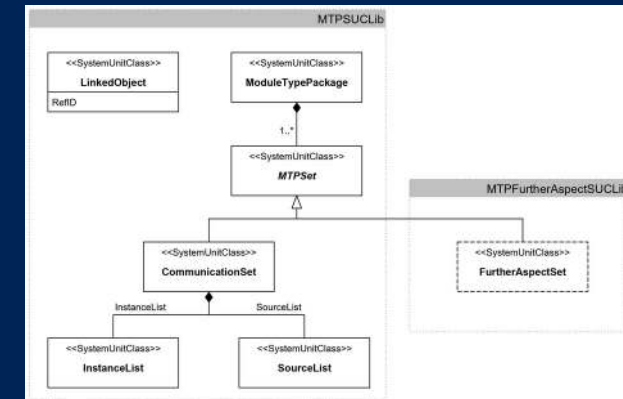
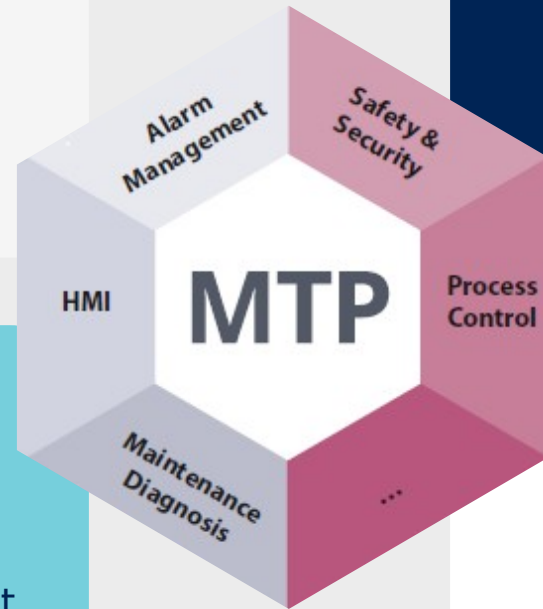
Basics of the MTP

Goal

- Vendor-independent „PEA-driver“
- Static modelling of all PEA-information required for PEA-integration
- Standardized format by UML-diagrams and modelling guidelines

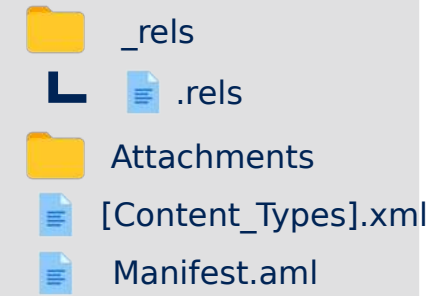
Implementation

- Archive (zip) of different aspect file(s)
- Modelling language is AutomationML
- Root file (Manifest.aml) combines aspect files
- Aspect files contain the PEA information
- References to XML-based data formats

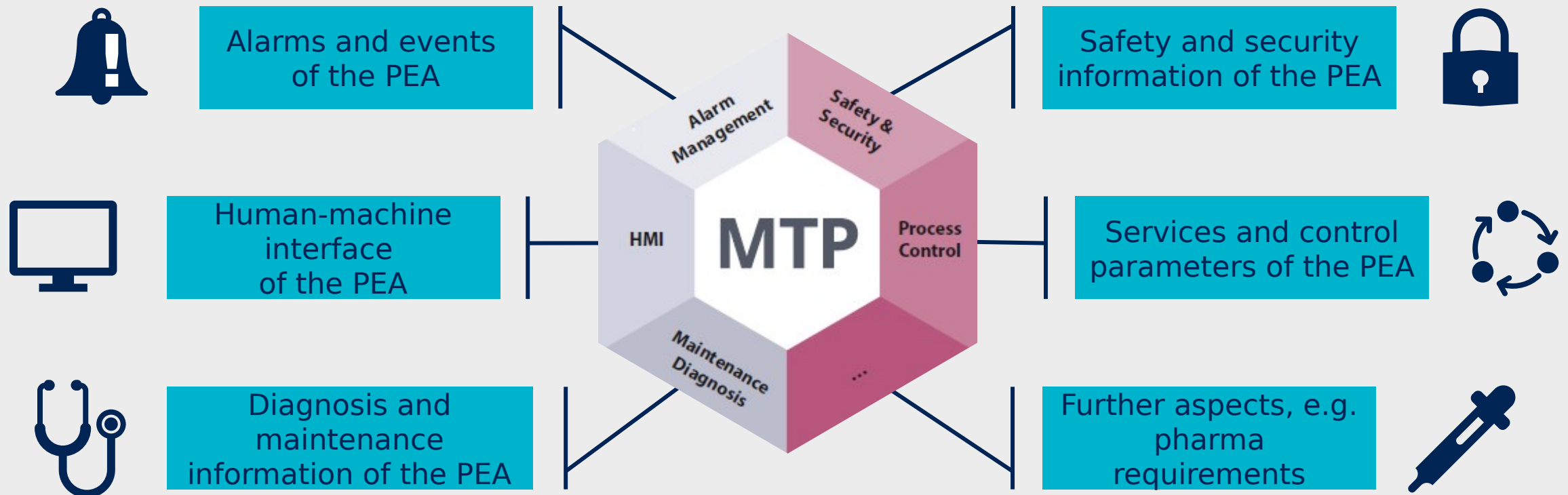


The MTP file

MTPName.mtp

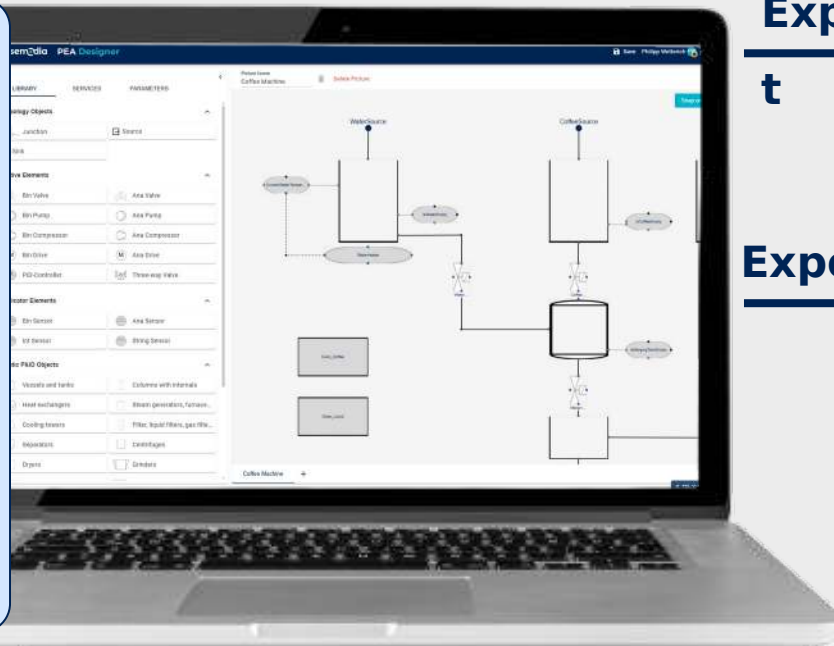
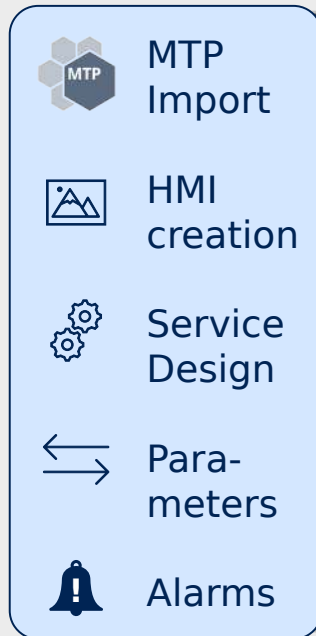


Structure of the MTP



Application-oriented Engineering

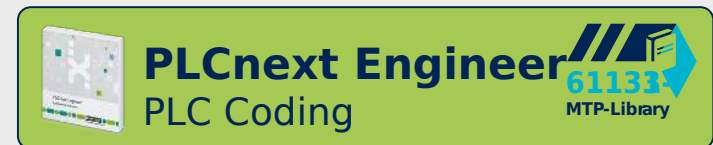
Semodia PEA Designer



Export



Export 61131-3



Cooperation
in your project

Central
Project Data

Versioning
& History

<AutomationML/>

Semodia PEA Designer

<https://app.pea-designer.com/>





Module Type Package engineering for Process Equipment Assemblies, from model structure to export-ready deliverables.

ENGINEERING WORKSPACE

Build complete MTP projects in one place.

Model your PEA, create the HMI, configure services and parameters, and generate consistent deliverables from a single source of truth.

MTP model

Structured module data with reusable project context.

HMI editor

Visual objects, measurements, and process connections.

Exports

Engineering outputs prepared from a single model.

Login

Sign in to access your projects

Email

Password

Sign in

New here? [Create account](#)

► [Forgot password?](#)

or

Sign in with Microsoft



Semodia PEA Designer

<https://app.pea-designer.com/>



Personal Projects



Shared Projects

PEA-Designer Projects

Create, import, and open the PEA models available to you.

+ New Project Import

Personal Workspace

Search...

Name	Modified	Description	Actions
Demo_HS_Merseburg	2026-08-24 09:50		[Icons]
Cocktail-Mixer (3)	2026-08-24 08:58		[Icons]
Cocktail-Mixer (2)	2026-08-24 08:57		[Icons]
WCT	2026-08-20 14:16		[Icons]
WCT	2026-08-20 14:16		[Icons]
Cooling	2026-08-13 09:58		[Icons]
X Flow	2026-08-11 08:16		[Icons]
dosing	2026-08-10 07:29		[Icons]
PID-260094-DynMix1	2026-08-06 06:04		[Icons]
CIP	2026-08-05 14:15		[Icons]

Rows per page: 10 1-10 of 19

Company Workspace

Search...

Name	Modified	Owner	Description	Actions
CoffeeMachine_1.0.2	2026-09-22 05:38	david.hahlweg@semodia.com		[Icons]
an_1127-yokogawa-generic_mtp	2026-09-21 06:48	david.hahlweg@semodia.com		[Icons]
dosing	2026-08-18 10:00	maximilian.stecklina@semodia.com		[Icons]
DrHornMTP-1	2026-06-24 14:04	stephan.hensel@semodia.com		[Icons]
DrHorn Blue Box	2026-06-24 13:23	stephan.hensel@semodia.com		[Icons]



MTP Import

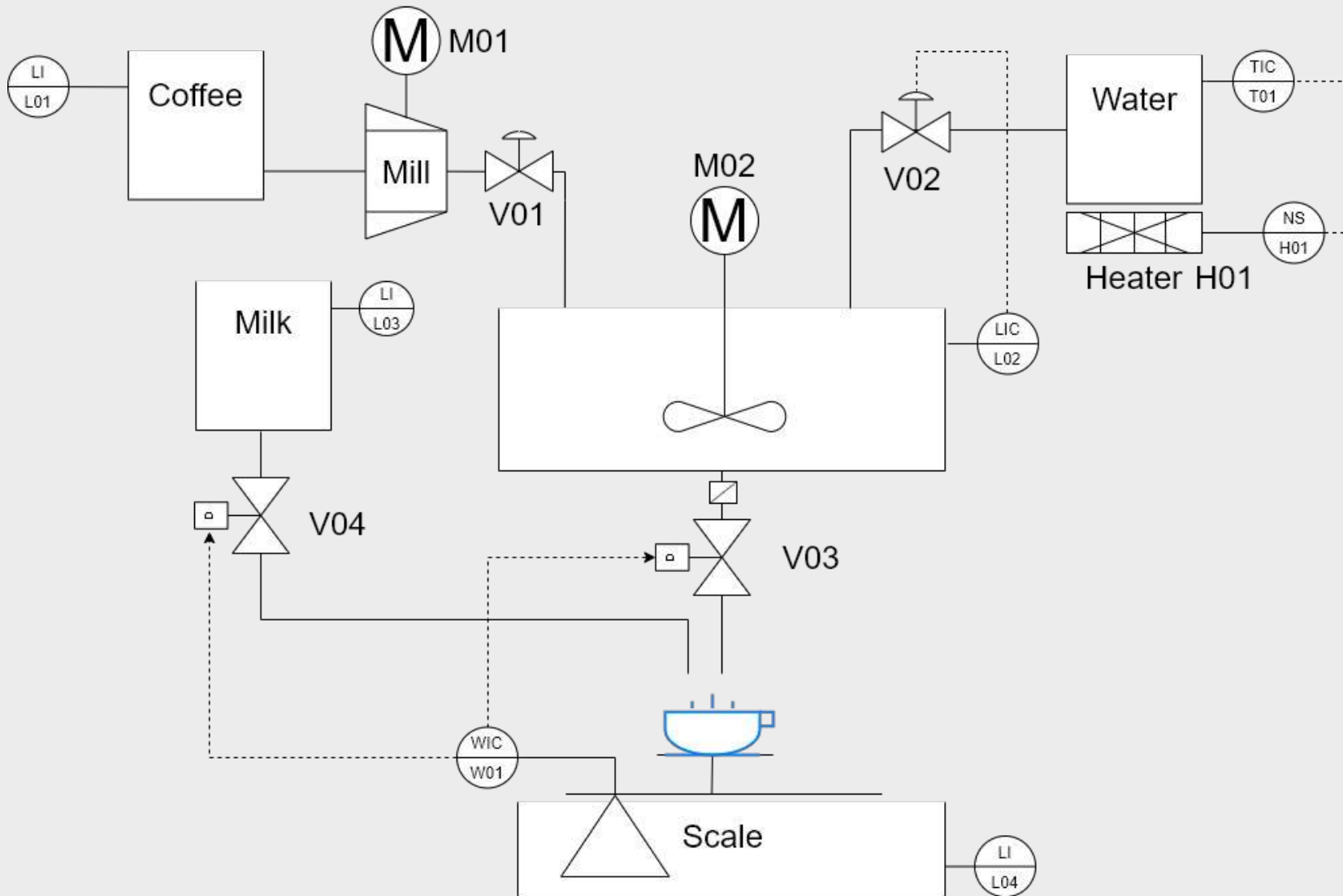
Coffee Machine Example



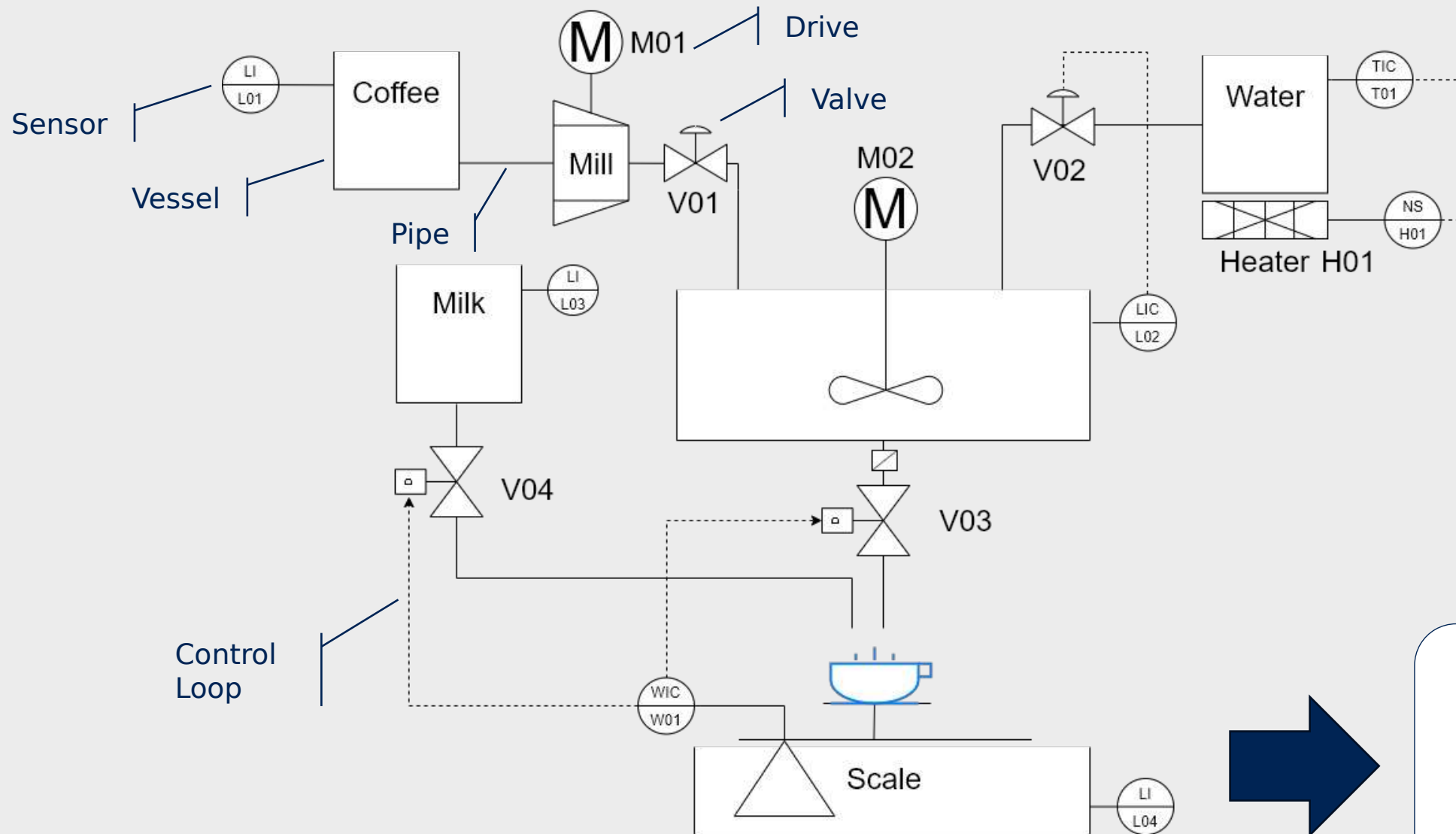
**MTP available as Demo
on the Semodia
Platform:**

**[https://
mtp.semodia.com/](https://mtp.semodia.com/)**

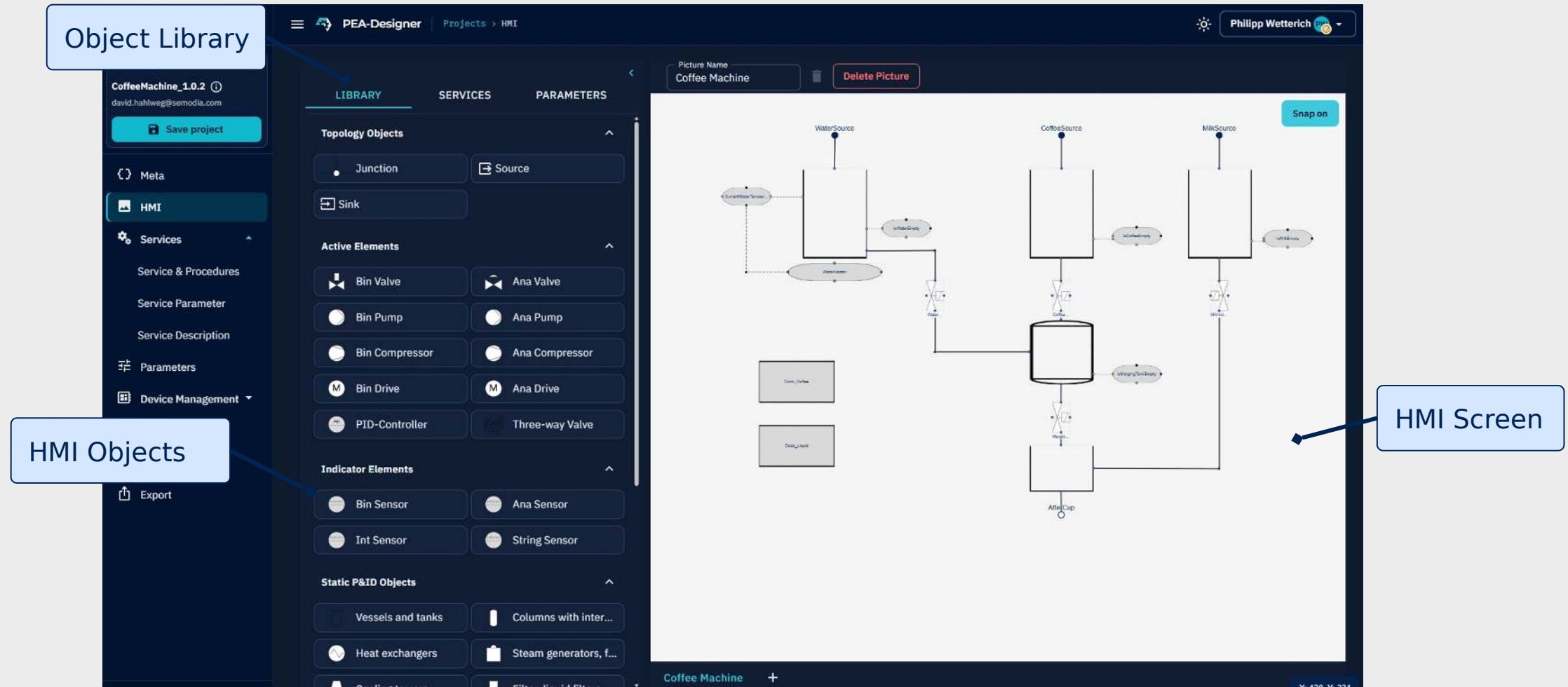
P&ID of a Coffee Machine



P&ID of a Coffee Machine



Human Machine Interface



The screenshot displays the PEA-Designer software interface, which is used for creating Human Machine Interfaces (HMI) for process automation. The interface is divided into several sections:

- Object Library:** Located on the left side, it contains a list of objects categorized by type. The categories include:
 - Topology Objects:** Junction, Sink, Source.
 - Active Elements:** Bin Valve, Ana Valve, Bin Pump, Ana Pump, Bin Compressor, Ana Compressor, Bin Drive, Ana Drive, PID-Controller, Three-way Valve.
 - Indicator Elements:** Bin Sensor, Ana Sensor, Int Sensor, String Sensor.
 - Static P&ID Objects:** Vessels and tanks, Columns with inter..., Heat exchangers, Steam generators, f..., Cooling towers, Filter liquid filters.
- HMI Objects:** A section on the left side of the Object Library, containing a list of HMI-specific objects like Meta, HMI, Services, Service & Procedures, Service Parameter, Service Description, Parameters, and Device Management.
- HMI Screen:** The main workspace on the right, showing a process flow diagram for a "Coffee Machine". The diagram includes components like WaterSource, CoffeeSource, MilkSource, and various valves and pumps. A "Snap on" button is visible in the top right corner of the workspace.

Annotations with blue boxes and arrows point to the "Object Library", "HMI Objects", and "HMI Screen" sections.

Human Machine Interface

The screenshot displays the semodia HMI software interface. On the left, a diagram of a coffee machine is shown with components like WaterSource, Water Tank, Water Heater, and Water Valve. A details panel on the right shows the 'Name' of the Water Tank as 'Water Tank' and its 'ECLASS Number' as '36 03 04 02'. Below the details panel is a button labeled 'Add Parameter Reference'. In the center, an 'InstanceHierarchy' tree is visible, showing a hierarchy of objects including 'Coffee-Machine', 'Water Tank Group', and 'Water Tank'. The 'Water Tank' object is highlighted. On the right, an 'Attributes' panel for 'Water Tank Group/Water Tank' is shown, listing various attributes like Width, Height, X, Y, ZIndex, Rotation, eClassVersion, eClassClassificationClass, eClassIRDI, and RefID. The 'eClassClassificationClass' attribute is highlighted, and its details are shown in a table below.

Attribute details: eClassClassificationClass of Water Tank	
Information	
Identification	
Name	eClassClassificationClass
Value	36030402
Default value	
Data Type	xs:string
Unit	
Constraint	Constraint collection
Relations	
Semantic	Semantic collection
Attribute Type	Drop ...

Human Machine Interface

HMI represented in AML as text



Visual Interpretation

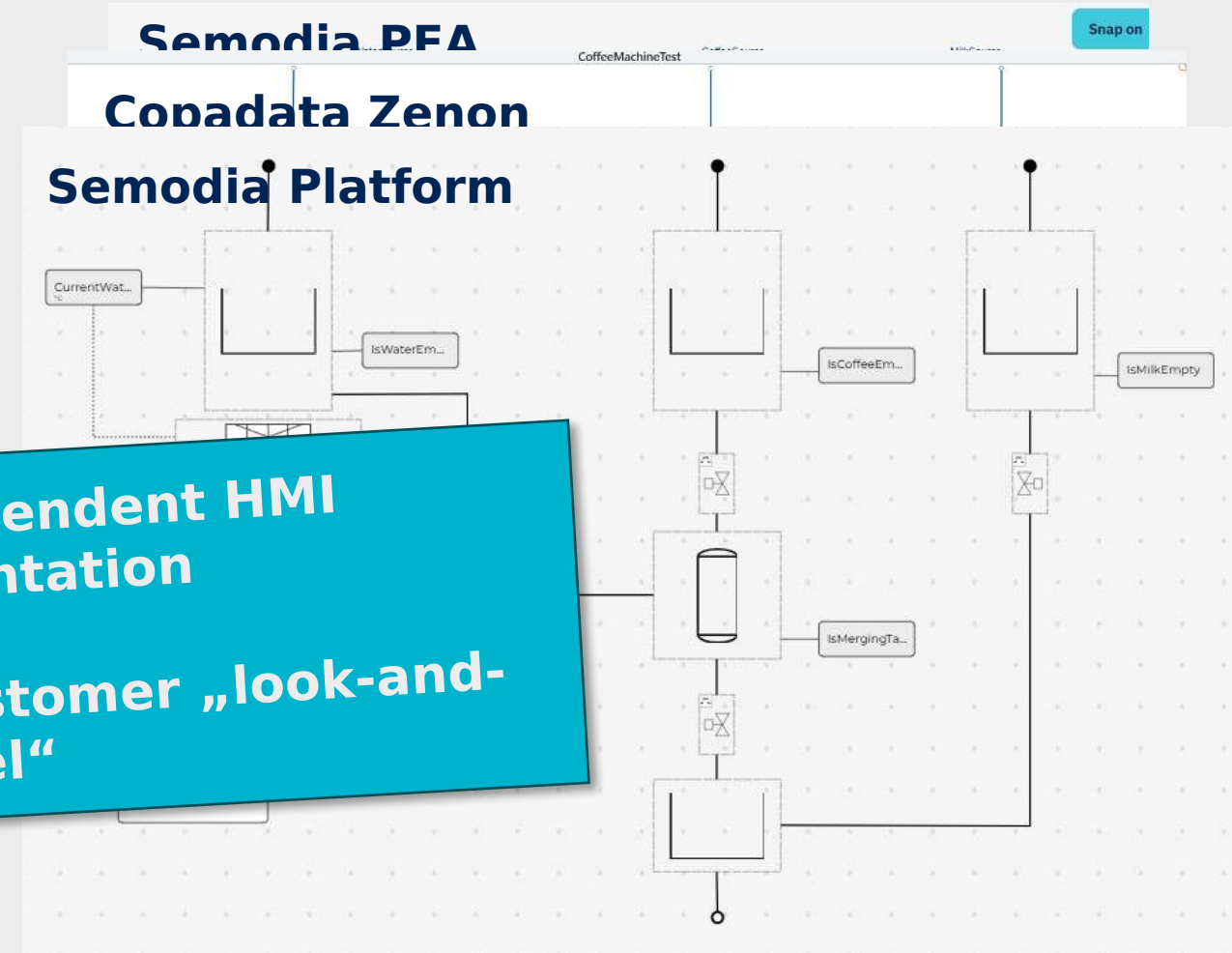
▲ Pictures {Version: }

▲ IE Coffee Machine {Class: Picture Role: AutomationMLBaseRole}

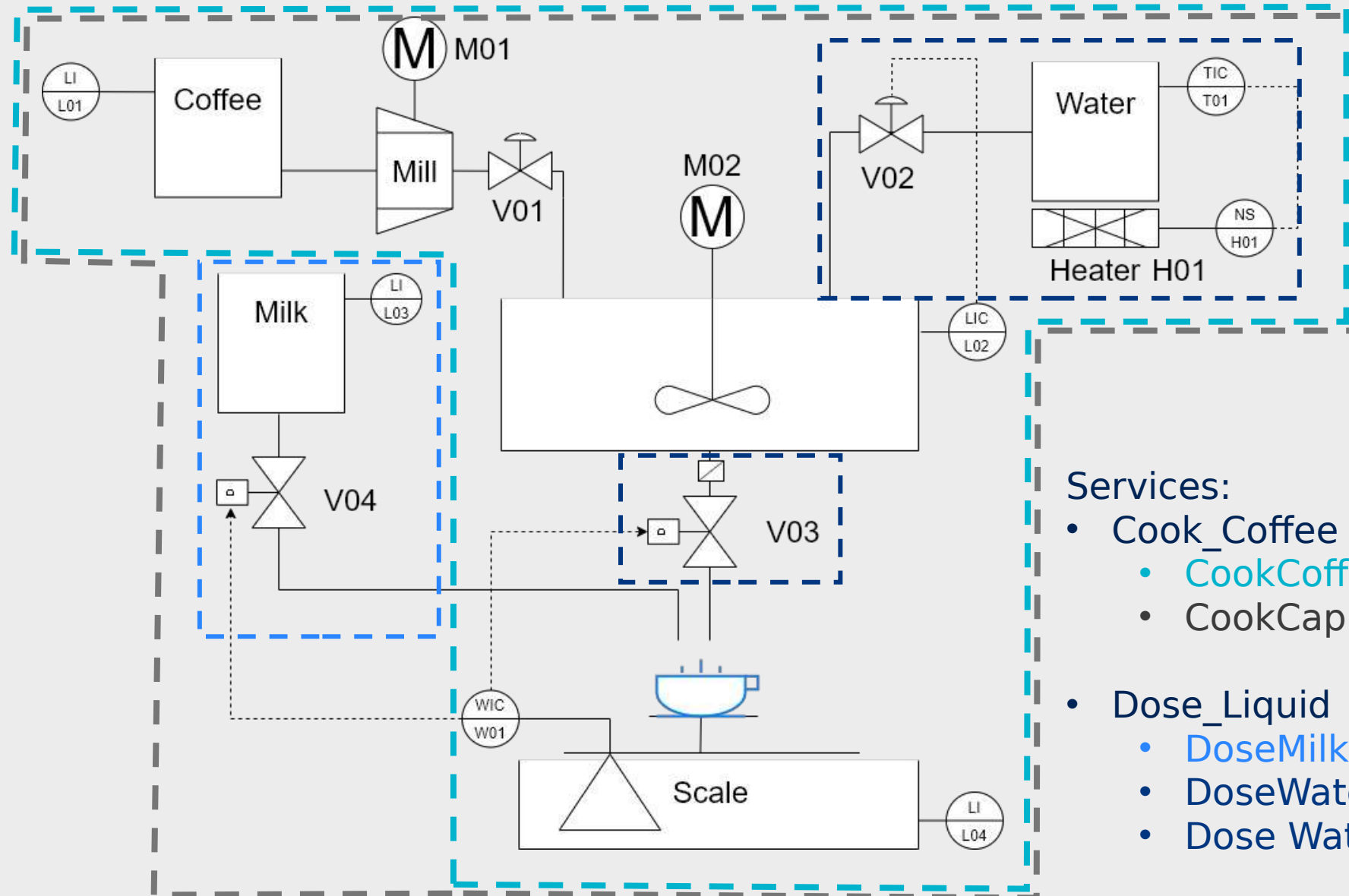
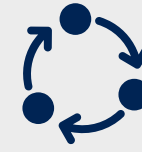
- ▶ IE Water Tank Group {Class: SemanticGroup Role: AutomationMLBaseRole}
- ▶ IE Cook_Coffee {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE CoffeeValve {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE MilkValve {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE Cup {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE Merging Tank {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE Coffee Storage Container {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE Milk Tank {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE MergingTankValve {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE IsMergingTankEmpty {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE IsCoffeeEmpty {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE IsMilkEmpty {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE Dose_Liquid {Class: VisualObject Role: AutomationMLBaseRole}
- ▶ IE CoffeeSource {Class: Source Role: AutomationMLBaseRole}
- ▶ IE MilkSource {Class: Source Role: AutomationMLBaseRole}
- ▶ IE AfterCup {Class: Sink Role: AutomationMLBaseRole}
- ▶ IE Pipe00 {Class: Pipe Role: AutomationMLBaseRole}
- ▶ IE Pipe01 {Class: Pipe Role: AutomationMLBaseRole}
- ▶ IE Pipe02 {Class: Pipe Role: AutomationMLBaseRole, HasDirection}
- ▶ IE Pipe03 {Class: Pipe Role: AutomationMLBaseRole, HasDirection}

Vendor-independent HMI representation

→ reference to customer „look-and-feel“



Services



Services:

- Cook_Coffee
 - CookCoffee
 - CookCappuccino
- Dose_Liquid
 - DoseMilk
 - DoseWater
 - Dose WaterCup

Services



Services & Procedures

Organize services and define the procedures available for each service.

Name the services of your PEA and define the procedures of each service.

Services

Procedures

Cook_Coffee

CookCoffee

☒ self-completing

CookCappuccino

☒ self-completing

+ Add Procedure

Dose_Liquid

DoseMilk

☐ continuous

DoseWater

☐ continuous

DoseWaterCup

☒ self-completing

+ Add Procedure

Services {Version: }

- IE Cook_Coffee {Class: Service Role: AutomationMLBaseRole, HasServicePosition}
 - IE WaterTemperature {Class: ConfigurationParameter Role: AutomationMLBaseRole}
 - IE CookCoffee {Class: Procedure Role: AutomationMLBaseRole}
 - IE CookCappuccino {Class: Procedure Role: AutomationMLBaseRole}
- IE Dose_Liquid {Class: Service Role: AutomationMLBaseRole, HasServiceInteraction, HasServicePosition}
 - IE DoseMilk {Class: Procedure Role: AutomationMLBaseRole}
 - IE DoseWater {Class: Procedure Role: AutomationMLBaseRole}
 - IE DoseWaterCup {Class: Procedure Role: AutomationMLBaseRole}

Service Parameters



Service Parameters

Assign parameters to services and procedures.

Services

2 services

- Cook_Coffee
- Dose_Liquid

Parameters — Cook_Coffee

5 parameters configured

Name	Parameter	Data Type
WaterTemperature	WaterTemperature {Class: AnaServParam Role: AutomationMLBaseRole}	
Amount	Amount {Class: AnaServParam Role: AutomationMLBaseRole}	
Ratio_Milk_Cappuccino	Ratio_Milk_Cappuccino {Class: AnaServParam Role: AutomationMLBaseRole}	
CappuccinoIngredientOrder	CappuccinoIngredientOrder {Class: DIntServParam Role: AutomationMLBaseRole, HasEnumDefinition}	
ErrorEncountered	ErrorEncountered {Class: ReportValue Role: AutomationMLBaseRole}	

RefID Link

Service Parameters



Service Parameters

Assign parameters to services and procedures.

Services
2 services

- Cook_Coffee
- Dose_Liquid

Parameters — Cook_Coffee
5 parameters configured

Name	Parameter	Data Type
WaterTemperature	WaterTemperature {Class: AnaServParam Role: AutomationMLBaseRole}	
Amount	CookCoffee {Class: ProcedureHealthView Role: AutomationMLBaseRole}	
Ratio_Milk_Cappuccino	CookCappuccino {Class: ProcedureHealthView Role: AutomationMLBaseRole}	
CappuccinoIngredientOrder	Ratio_Milk_Cappuccino {Class: AnaServParam Role: AutomationMLBaseRole}	
ErrorEncountered	CappuccinoIngredientOrder {Class: DIntServParam Role: AutomationMLBaseRole, HasEnumDefinition}	

◀ SrcExtAct {Type: IDLinkAttributeType }
◀ VExt {Type: IDLinkAttributeType }
◀ VOp {Type: IDLinkAttributeType }
◀ VInt {Type: IDLinkAttributeType }
◀ VReq {Type: IDLinkAttributeType }
◀ VOut {Type: IDLinkAttributeType }
◀ VFbk {Type: IDLinkAttributeType }
◀ VScIMax {Type: IDLinkAttributeType }
◀ VUnit {Type: IDLinkAttributeType }
◀ VMin {Type: IDLinkAttributeType }
◀ VMax {Type: IDLinkAttributeType }
◀ RefID {Type: RefIDAttributeType }

Attribute details: VMin of WaterTemperature

Information	
Identification	
Name	VMin
Value	
Value	14d6b09d-7e7a-4a3b-b51d-7cdc8453ce87
Default value	70
Data Type	xs:string
Unit	
Constraint	Constraint collection
Relations	
Semantic	Semantic collection

Service

Required Equipment

Procedure CookCoffee



Service Description

Maintain the service-description data for each procedure.

SERVICES

Cook_Coffee

Dose_Liquid

PROCEDURES

CookCoffee

CookCappuccino

REQUIRED EQUIPMENTS

STATES & COMMANDS

Assigned Required Equipments:

CoffeeValve X WaterValve X MergingTankValve X IsCoffeeEmpty X IsWaterEmpty X IsMergingTankEmpty X WaterHeater X

Filter

Filter by type

Show all Show none

Search Name

Select Data Assemblies that are required for this Procedure.

Select	Name	Type
☐	ErrorEncountered	BinView
☒	IsWaterEmpty	BinView
☒	IsCoffeeEmpty	BinView
☐	IsMilkEmpty	BinView
☒	IsMergingTankEmpty	BinView
☐	CurrentWaterTemperature	AnaMon
☒	WaterValve	BinVlv
☒	CoffeeValve	BinVlv
☐	MilkValve	BinVlv
☒	MergingTankValve	BinVlv

```
Services{Version: }
  IE Cook_Coffee { Class: Service Role: AutomationMLBaseRole, HasServicePosition }
    IE WaterTemperature { Class: ConfigurationParameter Role: AutomationMLBaseRole }
  IE CookCoffee { Class: Procedure Role: AutomationMLBaseRole }
    IE Amount { Class: ProcedureParameter Role: AutomationMLBaseRole }
    IE ErrorEncountered { Class: ReportValue Role: AutomationMLBaseRole }
    IE CoffeeValve { Class: RequiredEquipment Role: AutomationMLBaseRole }
    IE WaterValve { Class: RequiredEquipment Role: AutomationMLBaseRole }
    IE MergingTankValve { Class: RequiredEquipment Role: AutomationMLBaseRole }
    IE IsCoffeeEmpty { Class: RequiredEquipment Role: AutomationMLBaseRole }
    IE IsWaterEmpty { Class: RequiredEquipment Role: AutomationMLBaseRole }
    IE IsMergingTankEmpty { Class: RequiredEquipment Role: AutomationMLBaseRole }
    IE WaterHeater { Class: RequiredEquipment Role: AutomationMLBaseRole }
```

Service

Required Equipment

Procedure CookCappuccino



Service Description

Maintain the service-description data for each procedure.

SERVICES

Cook_Coffee

Dose_Liquid

PROCEDURES

CookCoffee

CookCappuccino

REQUIRED EQUIPMENTS

STATES & COMMANDS

Assigned Required Equipments:

CoffeeValve ✕ WaterValve ✕ MilkValve ✕ MergingTankValve ✕ IsCoffeeEmpty ✕ IsWaterEmpty ✕ IsMilkEmpty ✕

Filter

Filter by type Show all Show none Search Name

Select Data Assemblies that are required for this Procedure.

Select	Name	Type
☐	ErrorEncountered	BinView
☒	IsWaterEmpty	BinView
☒	IsCoffeeEmpty	BinView
☒	IsMilkEmpty	BinView
☒	IsMergingTankEmpty	BinView
☐	CurrentWaterTemperature	AnaMon
☒	WaterValve	BinVlv
☒	CoffeeValve	BinVlv
☒	MilkValve	BinVlv
☒	MergingTankValve	BinVlv

IE CookCappuccino {Class: Procedure Role: AutomationMLBaseRole}

▶ IE Amount {Class: ProcedureParameter Role: AutomationMLBaseRole}

▶ IE Ratio_Milk_Cappuccino {Class: ProcedureParameter Role: AutomationMLBaseRole}

▶ IE CappuccinoIngredientOrder {Class: ProcedureParameter Role: AutomationMLBaseRole}

▶ IE ErrorEncountered {Class: ReportValue Role: AutomationMLBaseRole}

▶ IE CoffeeValve {Class: RequiredEquipment Role: AutomationMLBaseRole}

▶ IE WaterValve {Class: RequiredEquipment Role: AutomationMLBaseRole}

▶ IE MilkValve {Class: RequiredEquipment Role: AutomationMLBaseRole}

▶ IE MergingTankValve {Class: RequiredEquipment Role: AutomationMLBaseRole}

▶ IE IsCoffeeEmpty {Class: RequiredEquipment Role: AutomationMLBaseRole}

▶ IE IsWaterEmpty {Class: RequiredEquipment Role: AutomationMLBaseRole}

▶ IE IsMilkEmpty {Class: RequiredEquipment Role: AutomationMLBaseRole}

▶ IE IsMergingTankEmpty {Class: RequiredEquipment Role: AutomationMLBaseRole}

▶ IE WaterHeater {Class: RequiredEquipment Role: AutomationMLBaseRole}

Parameters

Parameters

Create, search, and maintain the data assemblies used by the project.

[+ Add Parameter](#) All Parameter Types

Name	Type	Origin	Usage	Actions
Amount	Parameter Element		Service Parameter: CookCoffee, CookCappuccino	Details Delete
CappuccinoIngredientOrder	Parameter Element		Service Parameter: CookCappuccino	Details Delete
CoffeeValve	Valve		HMI: CoffeeValve Req. Equipment: CookCoffee, CookCappuccino	Details Delete
Cook_Coffee	Service Control		HMI: Cook_Coffee Service: Cook_Coffee	Details Delete
CookCappuccino	Procedure Health View		Procedure: CookCappuccino	Details Delete
CookCoffee	Procedure Health View		Procedure: CookCoffee	Details Delete
CupSize	Parameter Element		Service Parameter: DoseWaterCup	Details Delete
CurrentWaterTemperature	Indicator		HMI: CurrentWaterTemperature	Details Delete
Dose_Liquid	Service Control		HMI: Dose_Liquid Service: Dose_Liquid	Details Delete
DoseMilk	Procedure Health View		Procedure: DoseMilk	Details Delete
DoseWater	Procedure Health View		Procedure: DoseWater	Details Delete
DoseWaterCup	Procedure Health View		Procedure: DoseWaterCup	Details Delete
ErrorEncountered	Indicator		Report Value: CookCoffee, CookCappuccino, DoseMilk, DoseWater, DoseWaterCup	Details Delete
IsCoffeeEmpty	Indicator		HMI: IsCoffeeEmpty Req. Equipment: CookCoffee, CookCappuccino	Details Delete
IsMergingTankEmpty	Indicator		HMI: IsMergingTankEmpty Req. Equipment: CookCoffee, CookCappuccino, DoseWater, DoseWaterCup	Details Delete
IsMilkEmpty	Indicator		HMI: IsMilkEmpty Req. Equipment: CookCappuccino, DoseMilk	Details Delete

DataAssemblies {Version: }

- ▶ [IE](#) [PealInformationLabel](#) {Class: PealInformationLabel Role: AutomationMLBaseRole}
- ▶ [IE](#) [ErrorEncountered](#) {Class: BinView Role: AutomationMLBaseRole, MissedValueFlag}
- ▶ [IE](#) [IsWaterEmpty](#) {Class: BinView Role: AutomationMLBaseRole}
- ▶ [IE](#) [IsCoffeeEmpty](#) {Class: BinView Role: AutomationMLBaseRole}
- ▶ [IE](#) [IsMilkEmpty](#) {Class: BinView Role: AutomationMLBaseRole}
- ▶ [IE](#) [IsMergingTankEmpty](#) {Class: BinView Role: AutomationMLBaseRole}
- ▶ [IE](#) [CurrentWaterTemperature](#) {Class: AnaMon Role: AutomationMLBaseRole}
- ▶ [IE](#) [WaterValve](#) {Class: BinVlv Role: AutomationMLBaseRole}
- ▶ [IE](#) [CoffeeValve](#) {Class: BinVlv Role: AutomationMLBaseRole}
- ▶ [IE](#) [MilkValve](#) {Class: BinVlv Role: AutomationMLBaseRole}
- ▶ [IE](#) [MergingTankValve](#) {Class: BinVlv Role: AutomationMLBaseRole}
- ▶ [IE](#) [WaterHeater](#) {Class: BinManInt Role: AutomationMLBaseRole}
- ▶ [IE](#) [Amount](#) {Class: AnaServParam Role: AutomationMLBaseRole}
- ▶ [IE](#) [Cook_Coffee](#) {Class: ServiceControl Role: AutomationMLBaseRole}
- ▶ [IE](#) [LiquidDifference](#) {Class: AnaView Role: AutomationMLBaseRole}
- ▶ [IE](#) [Dose_Liquid](#) {Class: ServiceControl Role: AutomationMLBaseRole}
- ▶ [IE](#) [WaterTemperature](#) {Class: AnaServParam Role: AutomationMLBaseRole}
- ▶ [IE](#) [CookCoffee](#) {Class: ProcedureHealthView Role: AutomationMLBaseRole}
- ▶ [IE](#) [CookCappuccino](#) {Class: ProcedureHealthView Role: AutomationMLBaseRole}
- ▶ [IE](#) [Ratio_Milk_Cappuccino](#) {Class: AnaServParam Role: AutomationMLBaseRole}
- ▶ [IE](#) [CappuccinoIngredientOrder](#) {Class: DIntServParam Role: AutomationMLBaseRole, HasEnumDefinitic}
- ▶ [IE](#) [DoseMilk](#) {Class: ProcedureHealthView Role: AutomationMLBaseRole}
- ▶ [IE](#) [DoseWater](#) {Class: ProcedureHealthView Role: AutomationMLBaseRole}
- ▶ [IE](#) [DoseWaterCup](#) {Class: ProcedureHealthView Role: AutomationMLBaseRole}
- ▶ [IE](#) [CupSize](#) {Class: AnaServParam Role: AutomationMLBaseRole}

Alarms



Open Project

CoffeeMachine_1.0.2 ⓘ

david.hahlweg@semodia.com

Save project

Meta

HMI

Services

Service & Procedures

Service Parameter

Service Description

Parameters

Device Management

Alarms

Settings

Alarms

Define alarm groups, triggers, acknowledgement behavior, and severity.

DataAssemblies

Alarm Groups

Create Pea Alarm

Amount

CappuccinoIngredientOrder

CoffeeValve

Cook_Coffee

CookCappuccino

CookCoffee

CupSize

CurrentWaterTemperature

Dose_Liquid

Alarm	Message	TriggerValue	Severity	AckRequired	IsManaged	OnDelayTime (s)
▼ DataAssembly: IsWaterEmpty						
IsWaterEmpty.V	View/Edit	false ▼	100 ▲▼	☒	☐	

InstanceHierarchy

Attributes : IsWaterEmpty_AlarmGroup/IsWaterEmpty.V

InstanceHierarchy

Attributes : IsWaterEmpty_AlarmGroup/IsWaterEmpty.V

Attribute details: AckRequired of IsWaterEmpty.V

Information	✕
Identification	⌵
Name	AckRequired
Value	⌵
Default value	☐
Data Type	xs:boolean

Exports

Export

Generate and download the engineering outputs enabled for this project.

Local files

Download the project and its service-description deliverables.



Download MTP file

Download service description (PDF)

Download service description (JSON)

Download PROFINET mapping (JSON)

Semodia Platform

Upload the current project for sharing or deployment.



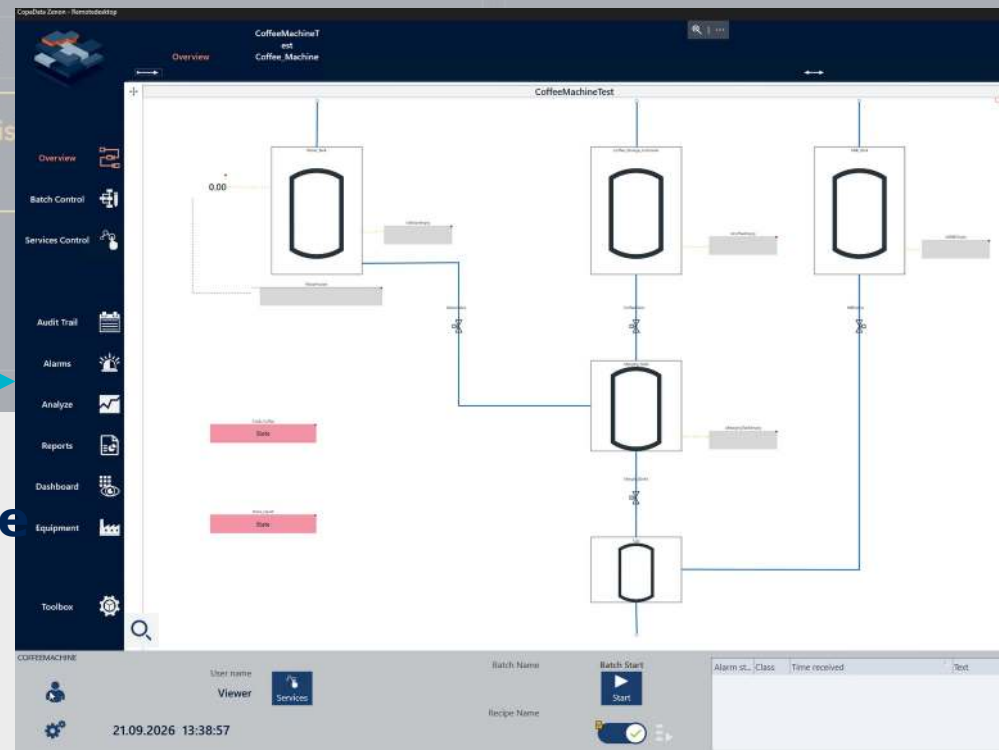
PLCnext

Download the generated PLCnext project files.



No API key is settings.

**MTP file for integration into the
Process Orchestration Layer**



Exports

Export

Generate and download the engineering outputs enabled for this project.

Local files

Download the project and its service-description deliverables.



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Download service description (PDF)

Download service description (JSON)

Download PROFINET mapping (JSON)

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No API key is configured. Add one in company settings.

PLCnext

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Download PLCnext project

Generate procedure ST code

**API for MTP
file management**



Exports

Export

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No API key is configured. Add one in company settings.

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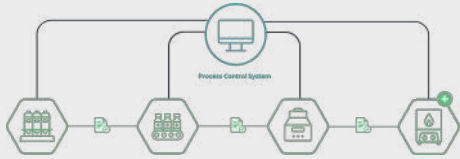
Download PLCnext project

Generate procedure ST code

XML export for
PLC Coding



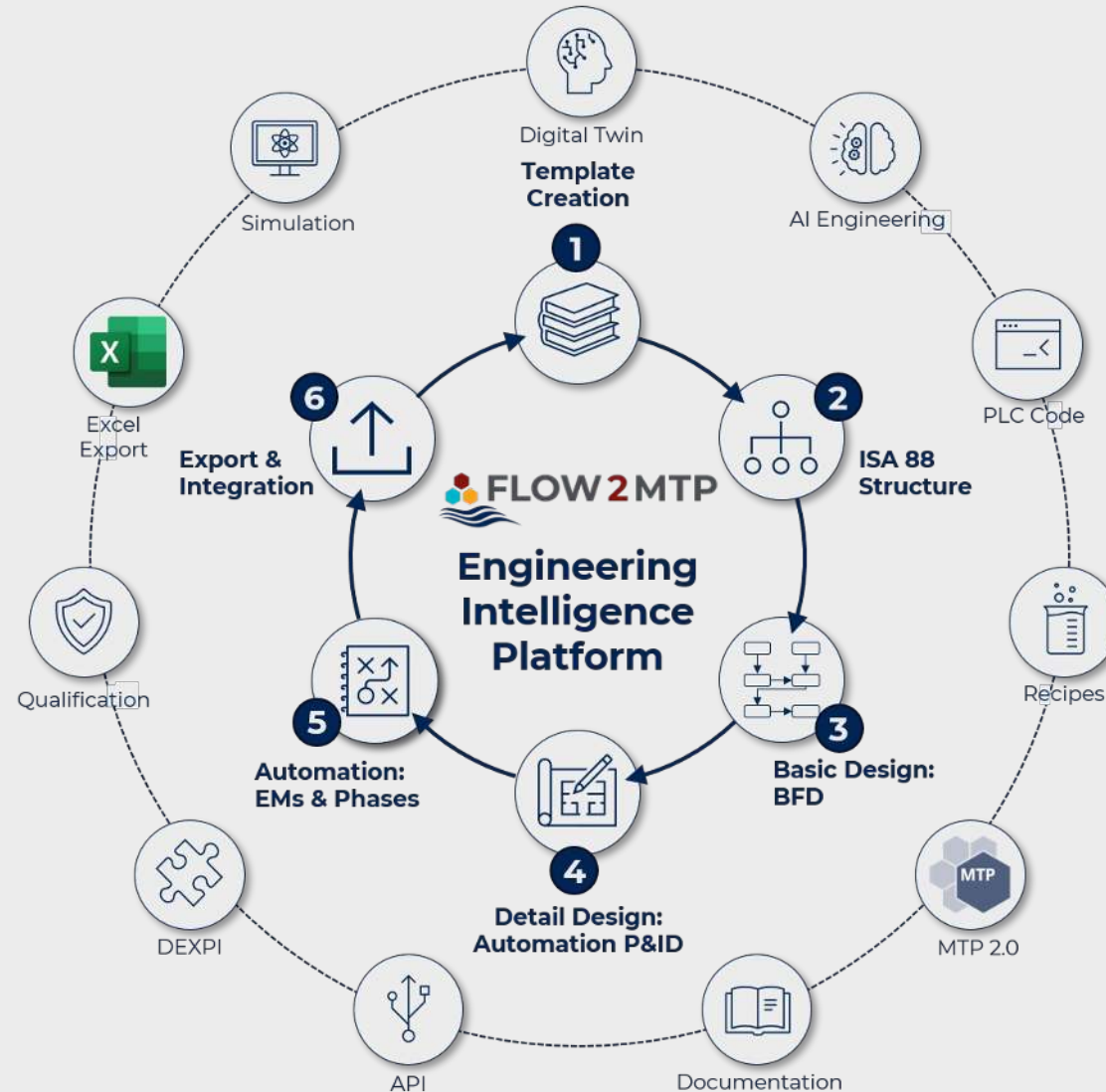
Conclusion



- Modular Plants require **semantic information models**
- AutomationML is the **semantic Backbone** of the Module Type Package
- PEA Designer offers **user-friendly interaction** with MTPs (and AML):
 - HMI creation
 - Service Design
 - Alarms
 - Exports for Orchestration and Controller Logic

Outlook

Integrated Engineering with FLOW2MTP



One Engineering Model.
Unlimited Possibilities.



Create once. Automate everywhere.
Deliver faster, with higher quality,
less effort and lower costs.

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