WEBINAR

Sirius

What's New and What's Next?

Sirius Latest Technological Advancements and Roadmap

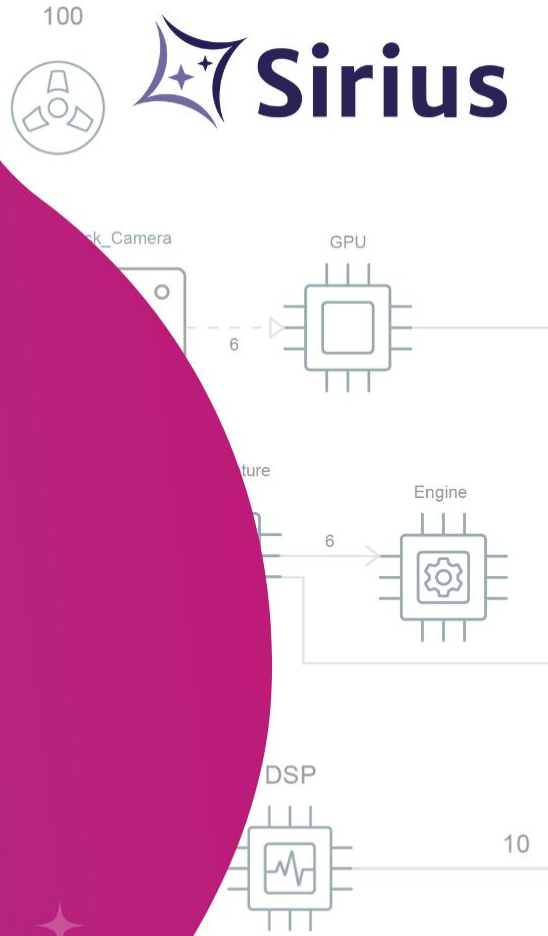
THU | February **29** 2024 | 5PM*

*Europe: 5 PM CET (Paris) | 4 PM UTC+1 (London)
America: 8 AM PDT (San Francisco) | 11 AM EDT (New York)



Speaker

Mélanie BATS
CTO (Obeo)

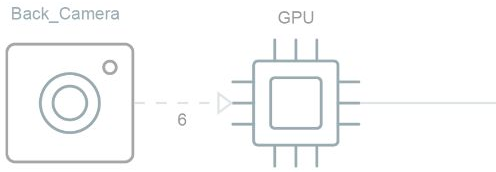


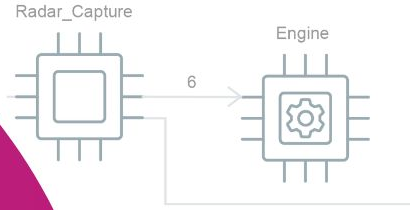
OBEO

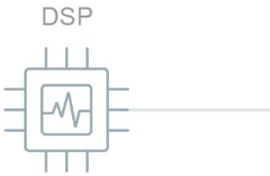
WEBINAR



Sirius









Please note your microphone is muted



Click the Q&A icon and ask your questions 10+ min at the end of the presentation

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Sirius: 1 project
2 flavors: Desktop & Web

Sirius Desktop
What’s new ?

Sirius Desktop releases in 2023

In 2023, Sirius Desktop is still active and well maintained : 7 versions released!

3 major and 4 maintenance versions almost one version every 3 months

7.0.7 (2023-01-19) in Eclipse 2023-03

7.1.0 (2023-03-29)

7.2.0 (2023-06-07) in Eclipse 2023-06

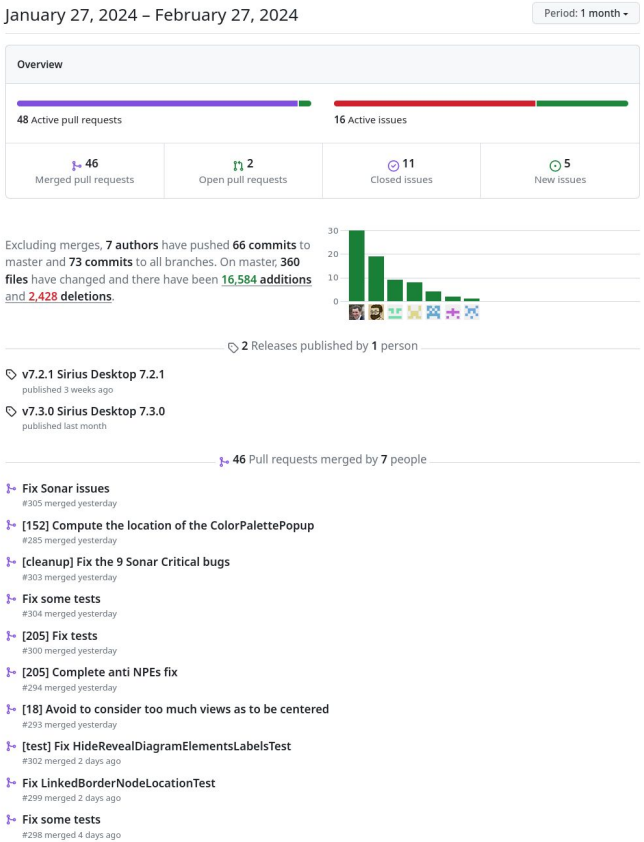
7.0.8 (2023-06-24)

7.1.1 (2023-06-24)

6.6.1 (2023-07-18)

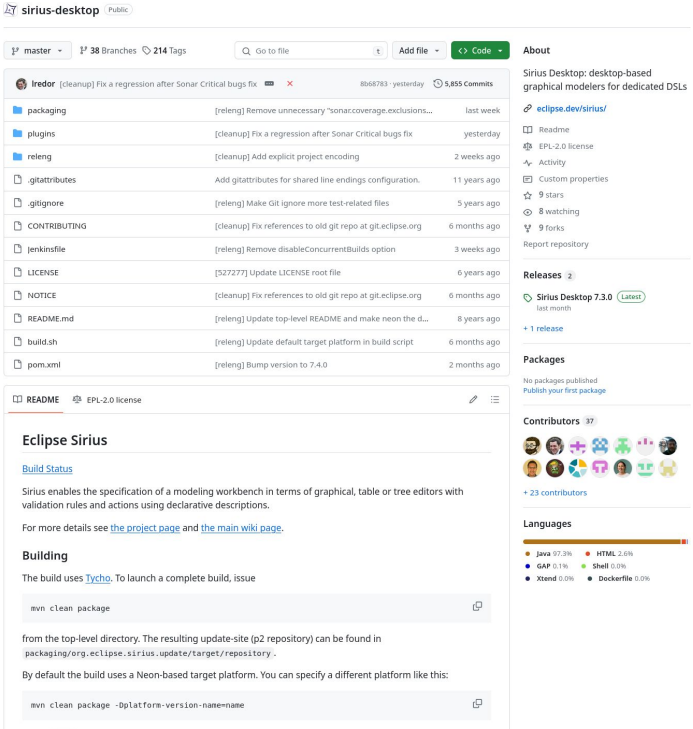
7.2.1 (2023-09-13) in Eclipse 2023-09

7.3.0 (2023-11-24) in Eclipse 2023-12

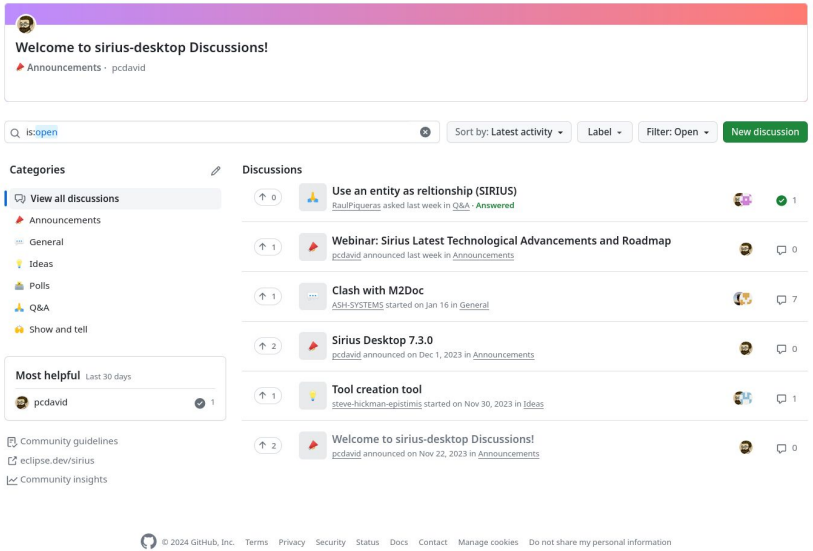


Move to Github

Move to Github: https://github.com/eclipse-sirius/sirius-desktop



Forum to discussions



Dependencies upgrade

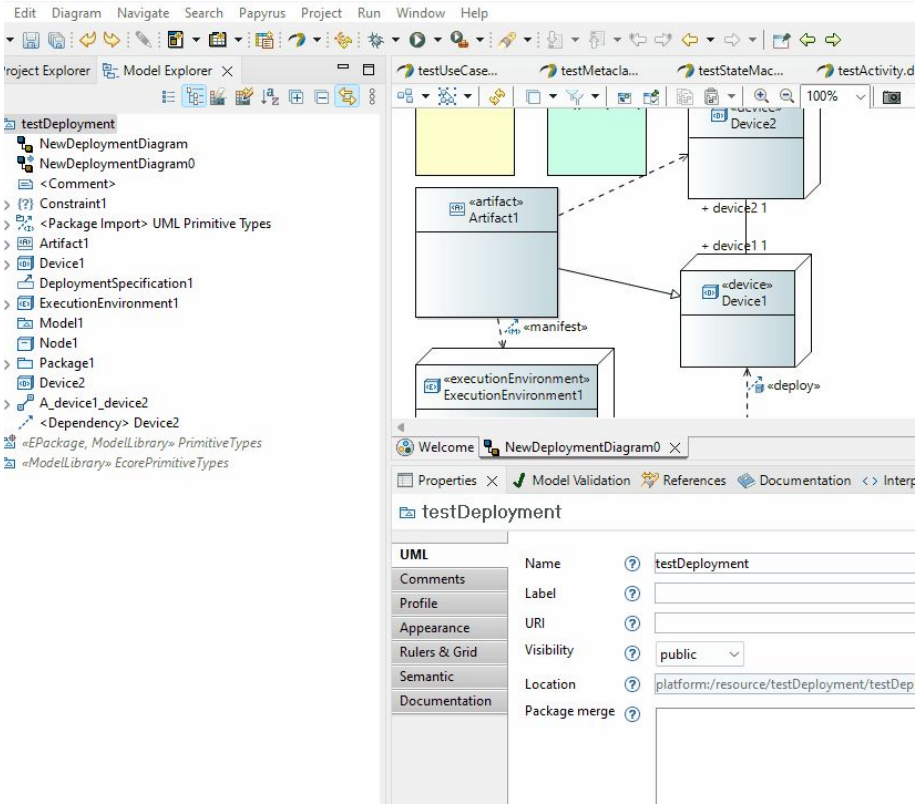
Apache Batik 1.16

Java 17

GEF Classic 3.17

Undo Redo Actions

Allow Undo and Redo Actions from Properties view



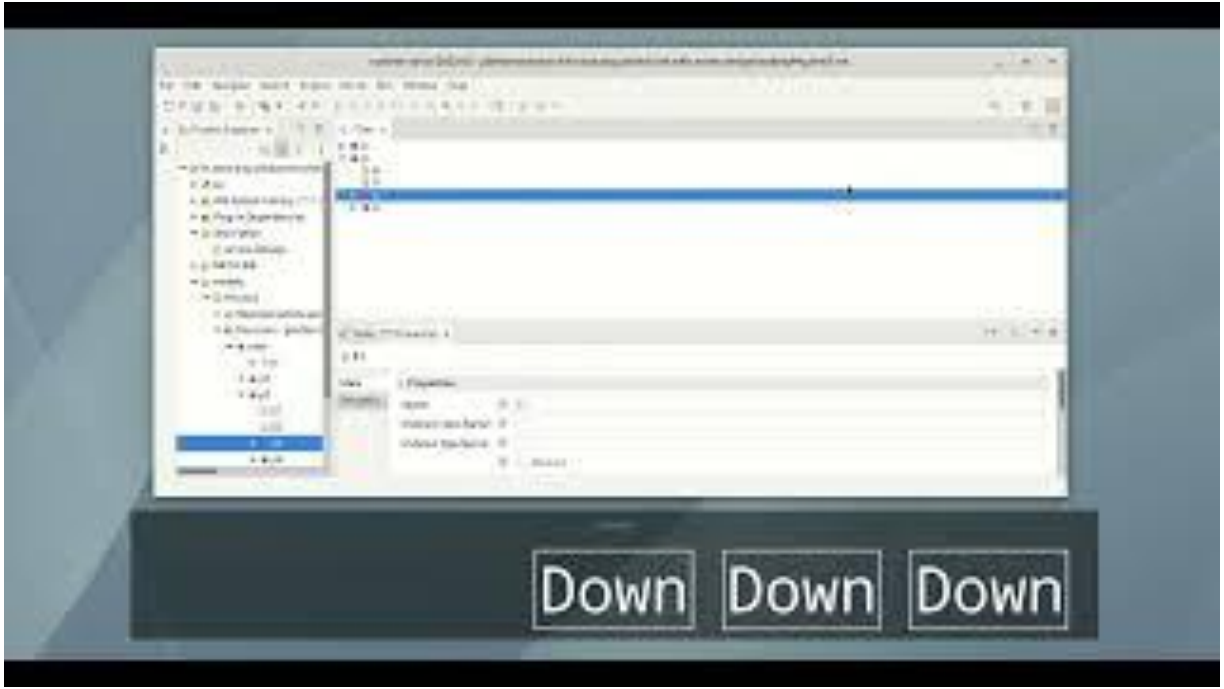
Sirius Desktop

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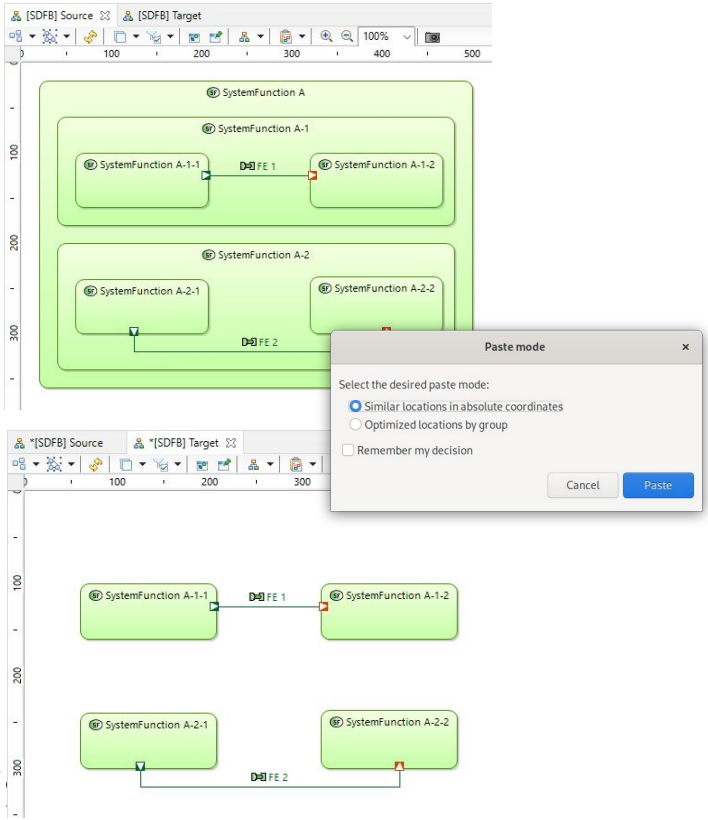
Keyboard shortcut

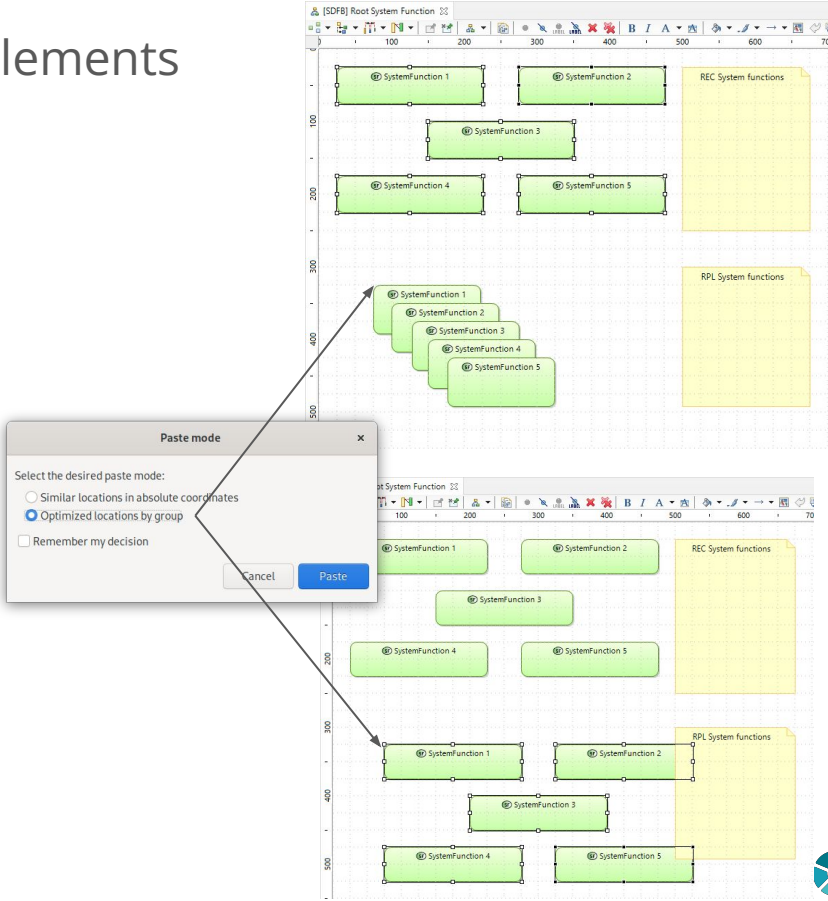
Add support for expanding a tree item using the arrow keys



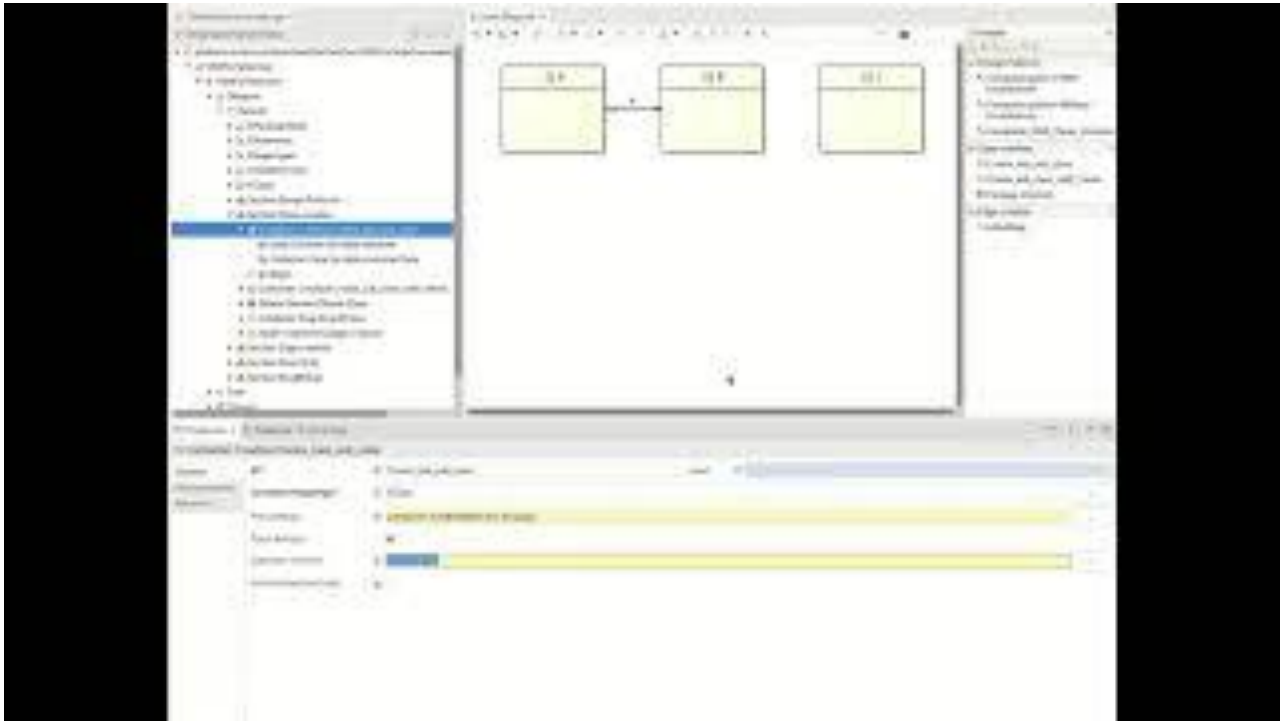
Bounding box mode

Add a new mode to paste layout of elements



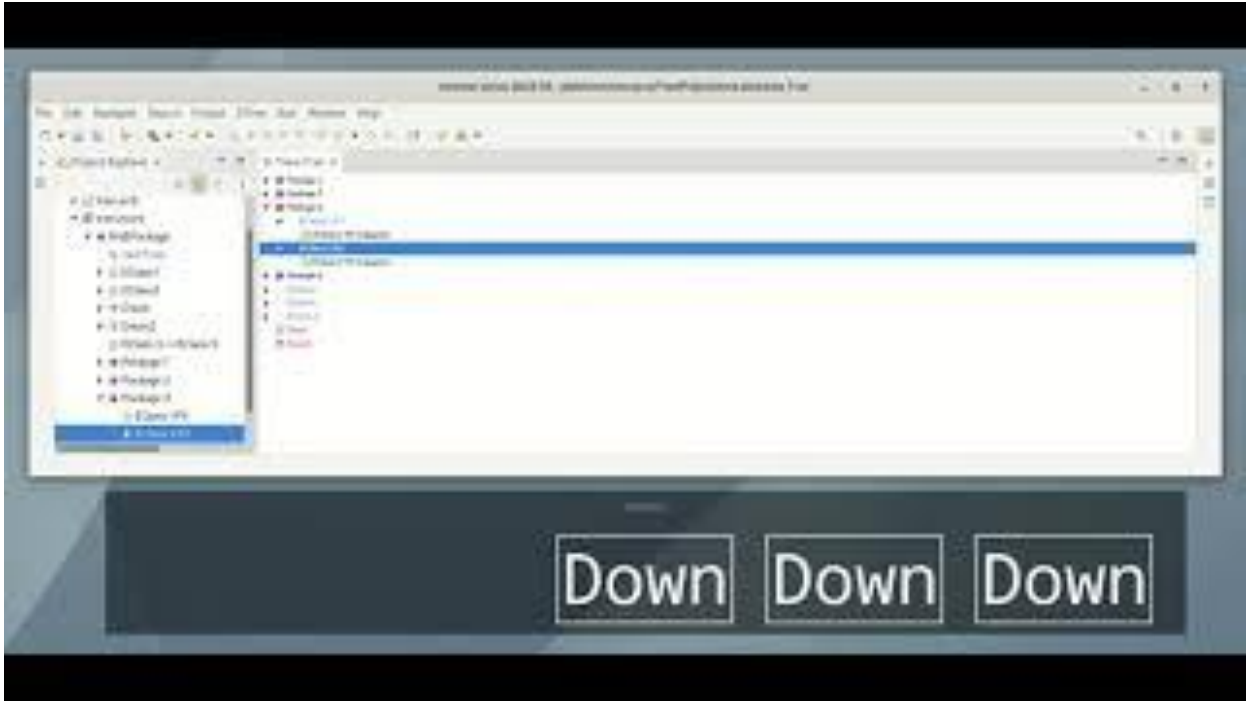


Selection after tool execution

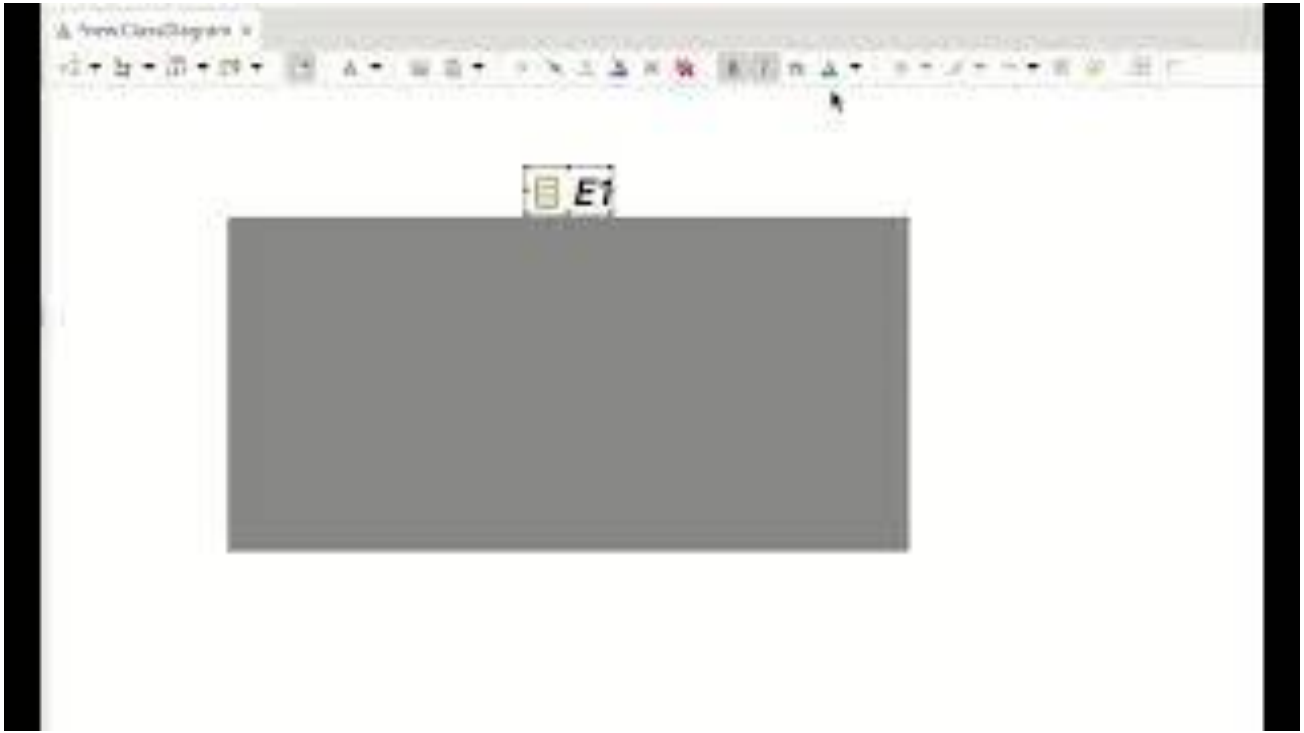


Expand / Collapse trees

Add "expand all" and "collapse all" feature in tree editor



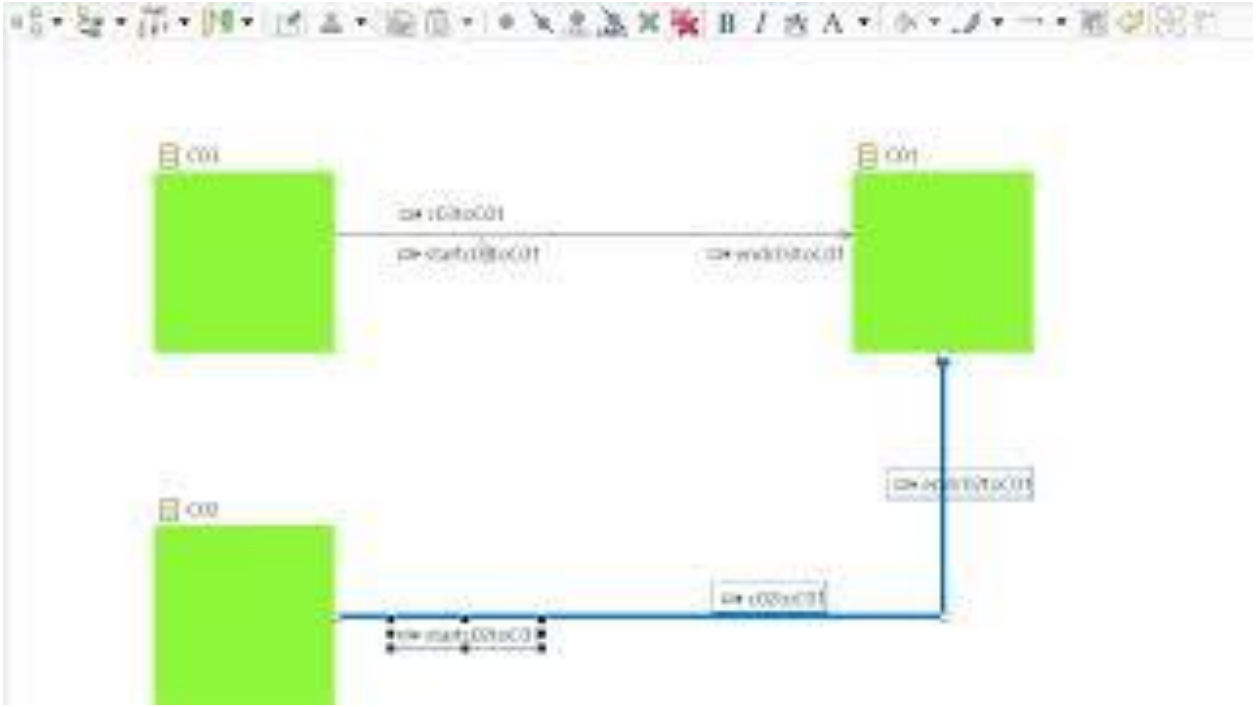
External node label on selection



Sirius Desktop

Align and distribute edges labels

Add align and distribute actions to edge labels

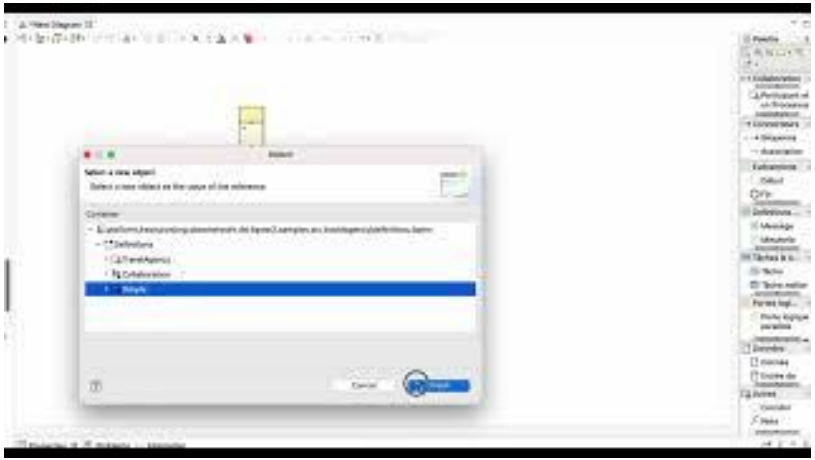


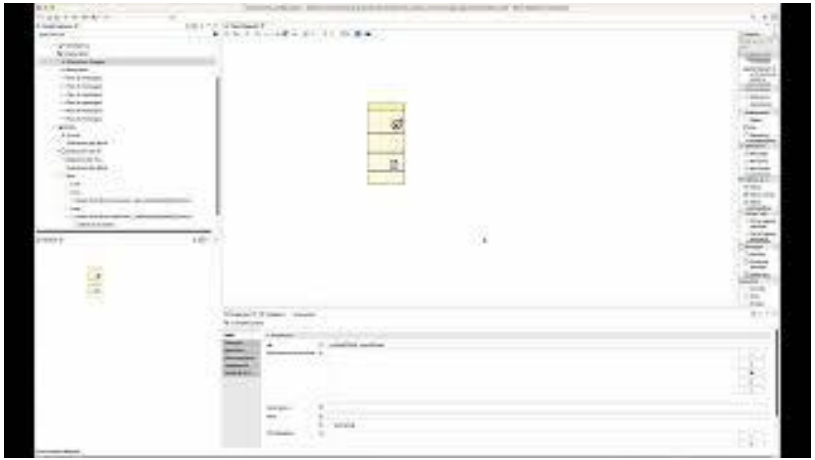
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Layout optimization for compartments

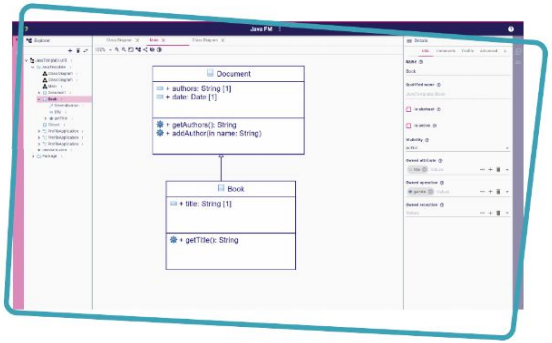




Projects Developed with Obeo

Sirius Desktop

Eclipse Papyrus™

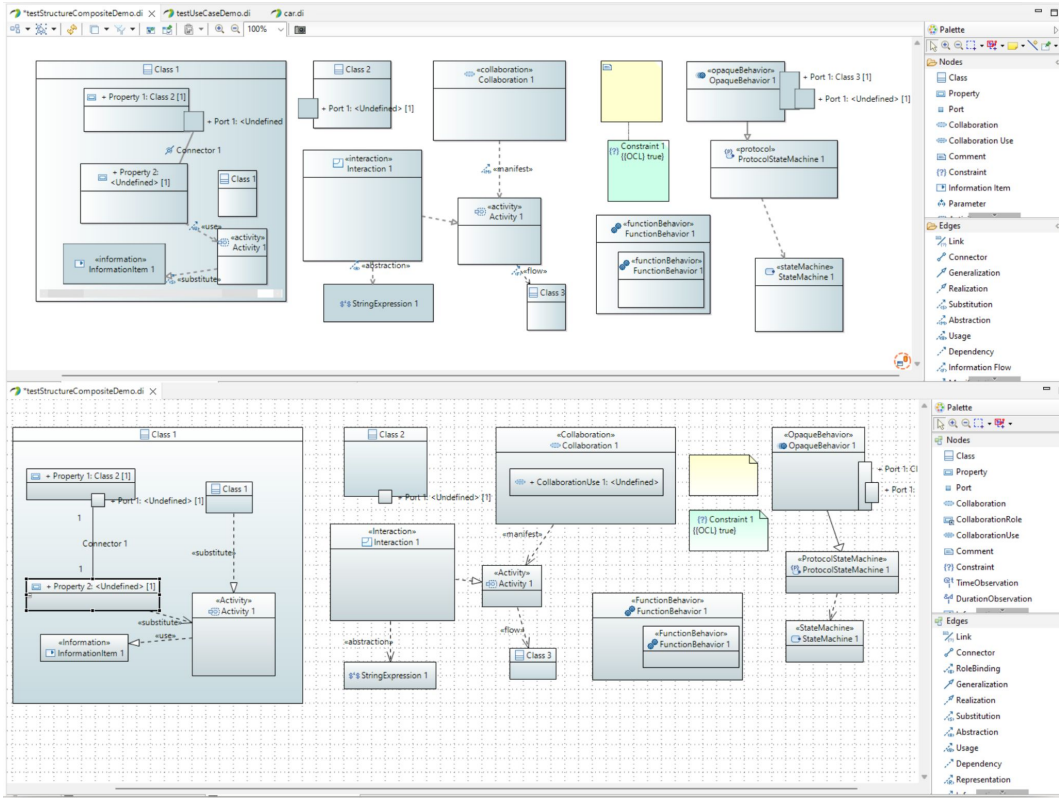


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Papyrus Sirius Desktop



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Sirius Web
What’s new ?

Sirius Web

Your custom modeling solutions to the cloud



Easily create and deploy
modern modeling tools to the Cloud.

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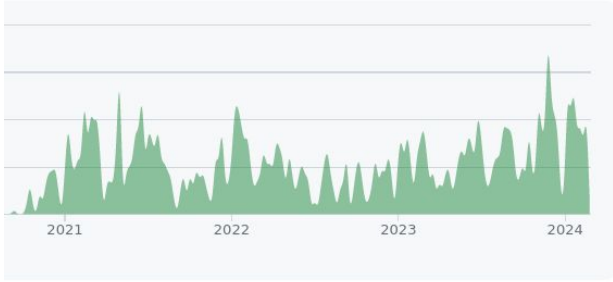
Sirius Web is very active!

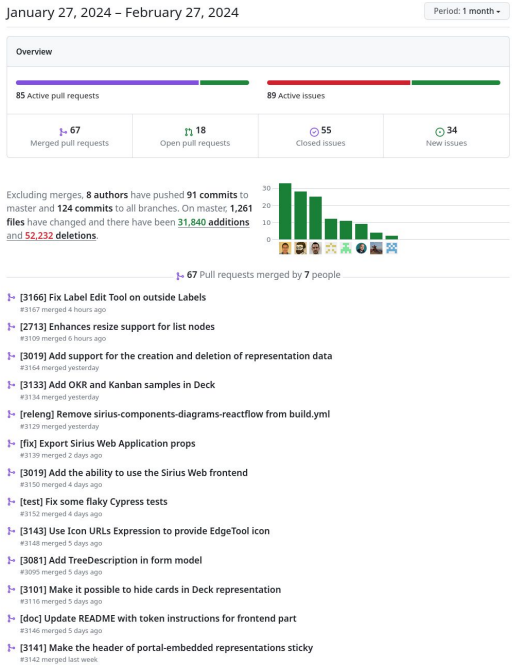
One Github repository : https://github.com/eclipse-sirius/sirius-web

Frequent **releases** : an iteration every 8 weeks

In 2023:

- 2023.1
- 2023.3
- 2023.5
- 2023.7
- 2023.9
- 2023.11
- 2024.1



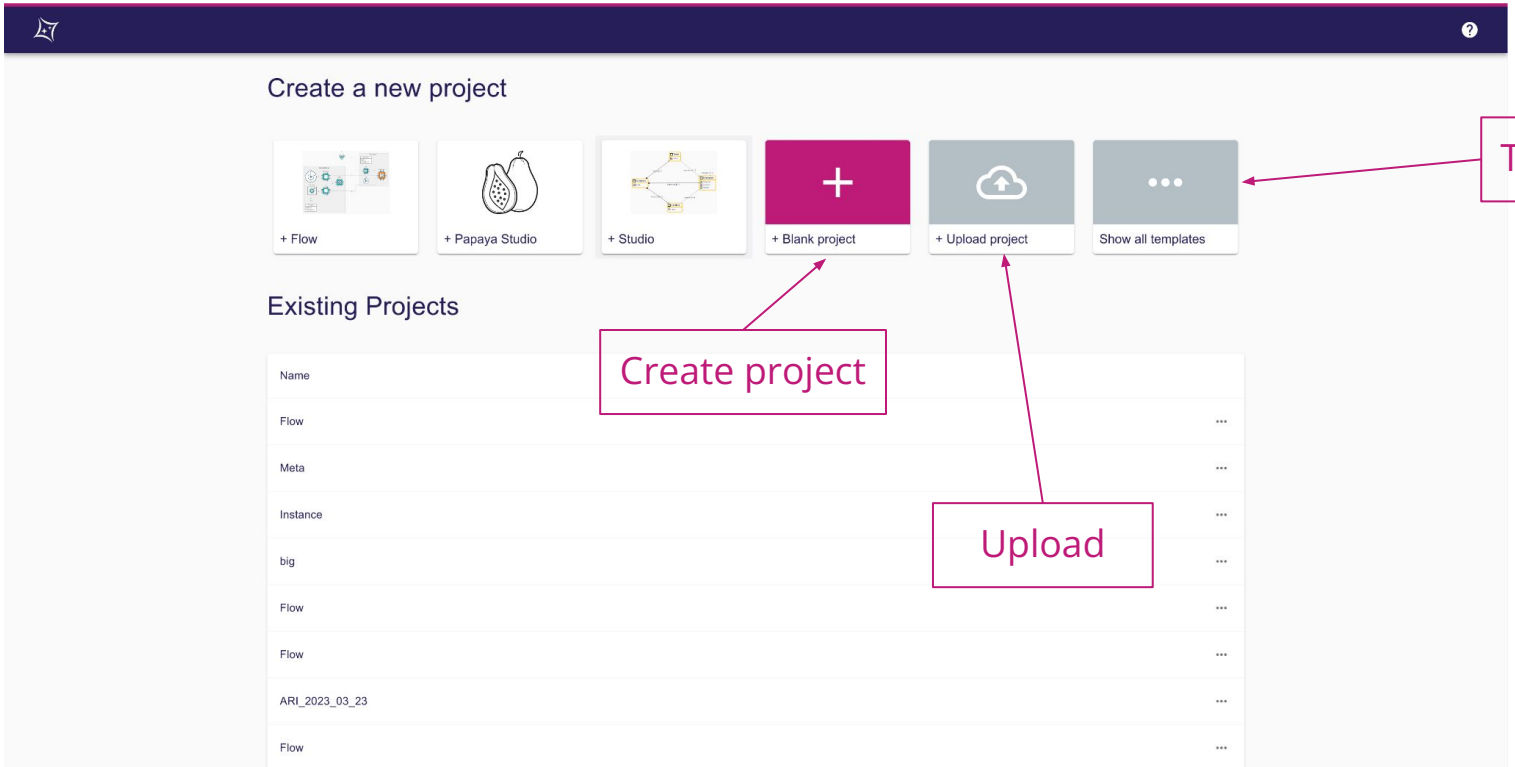


Sirius

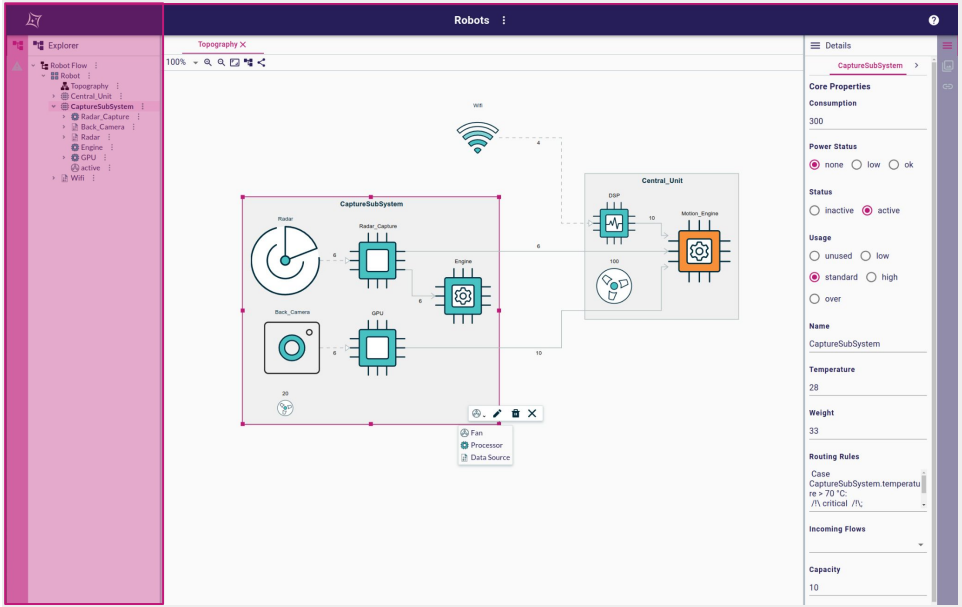
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End users

Templates


Create a new project
+ Flow
+ Papaya Studio
+ Studio
+ Blank project
+ Upload project
Show all templates
Templates
Existing Projects
Name
Flow
Meta
Instance
big
Flow
Flow
ARI_2023_03_23
Flow
Create project
Upload

Explorer



Sirius Web

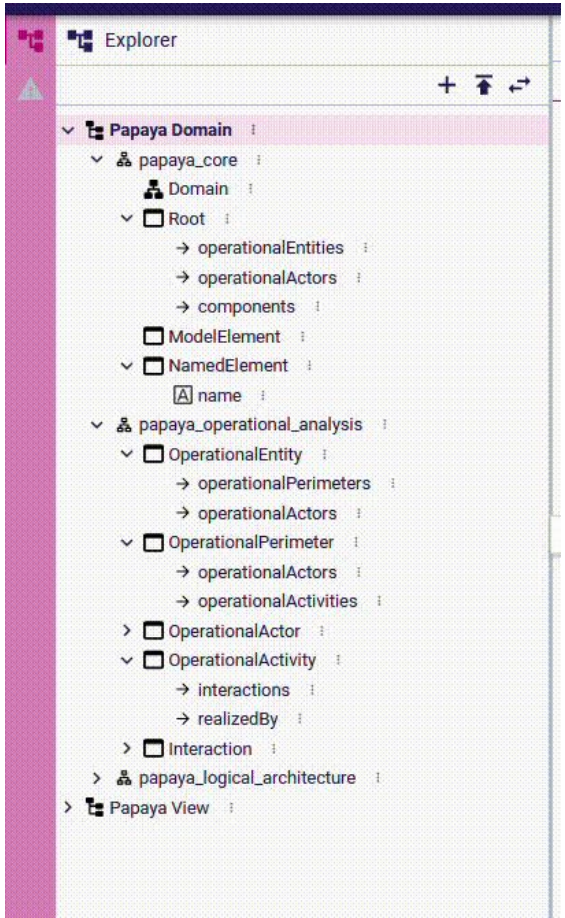
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Link with editor

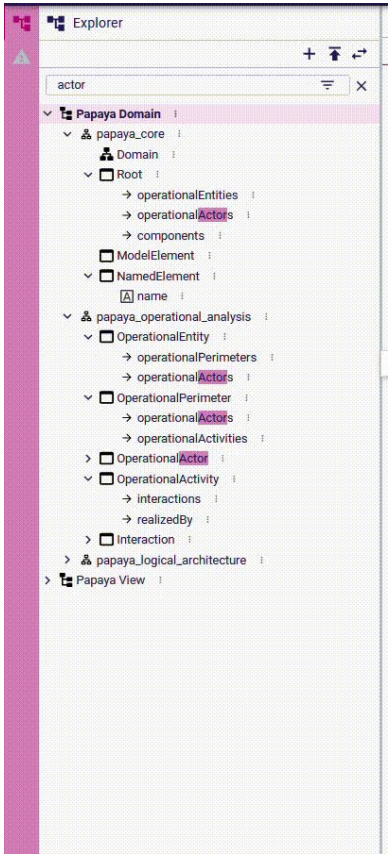


Filter



Sirius Web
Sirius
OBEO

Expand all (! use with caution)



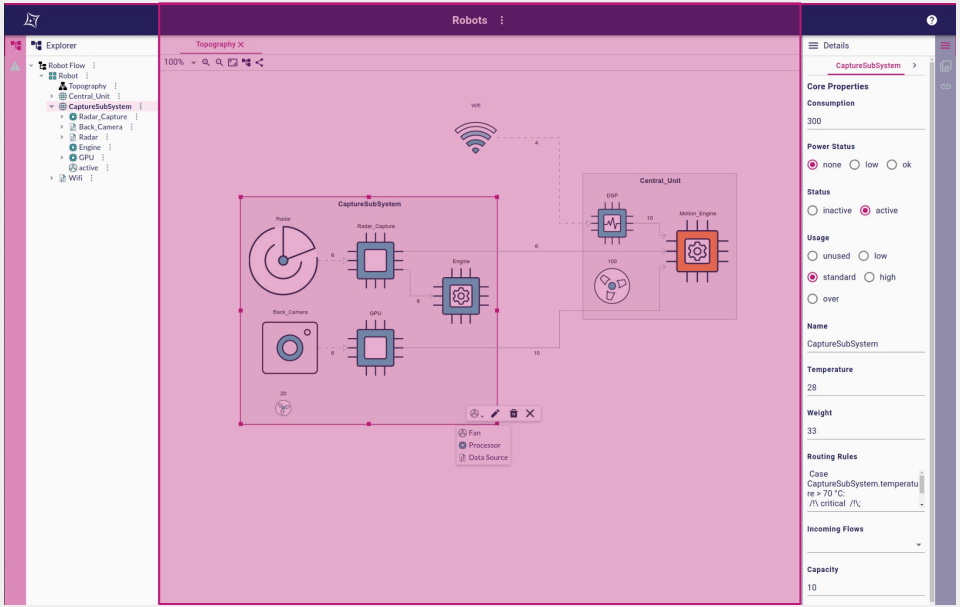
Sirius Web

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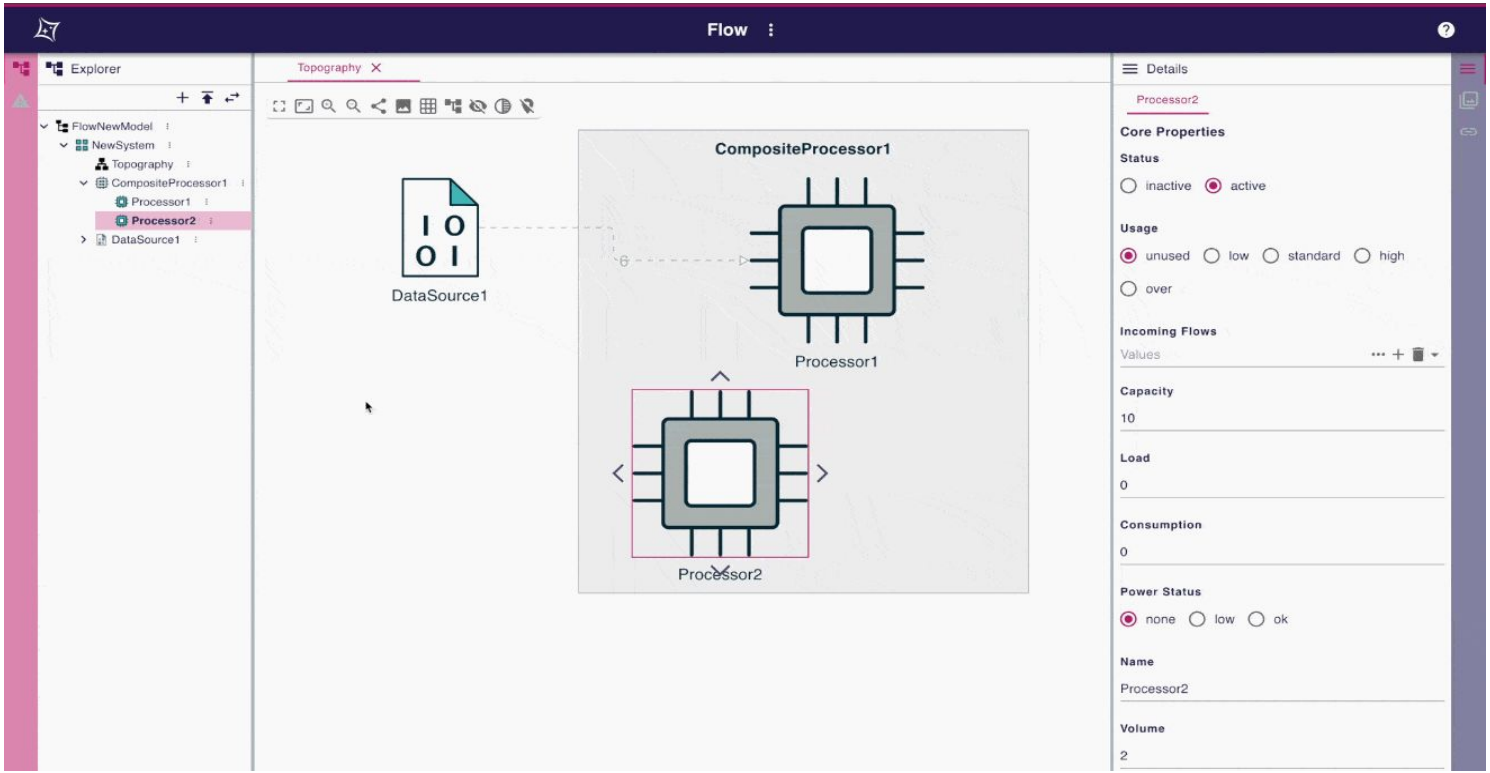
Diagrams



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React Flow!

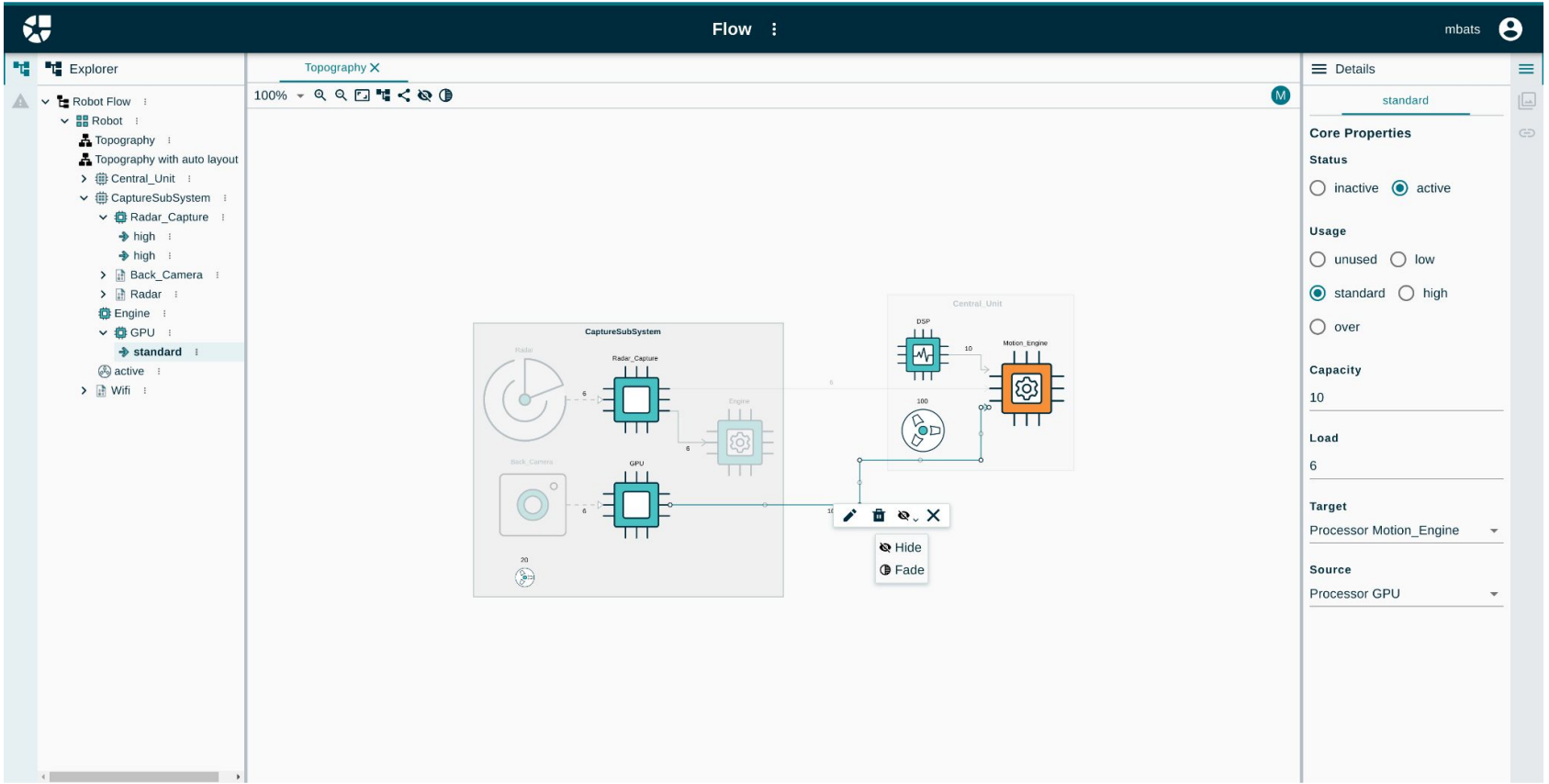


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Hide / Fade

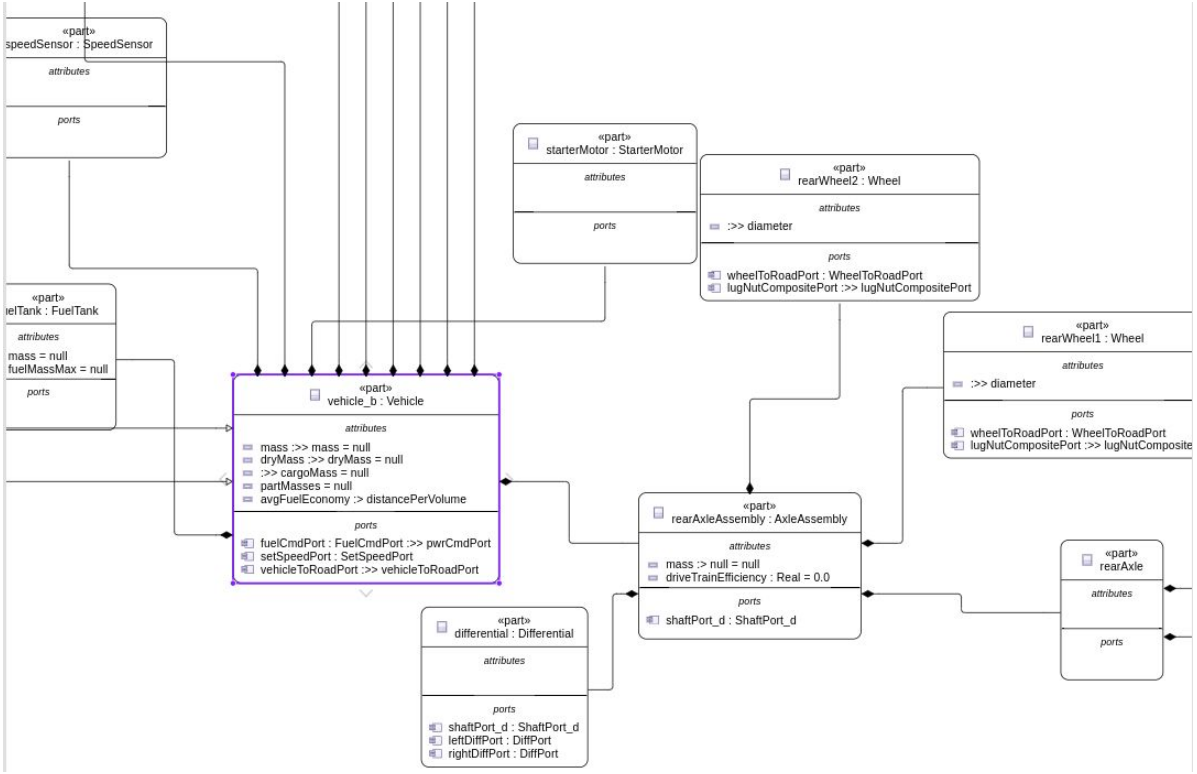


Sirius Web

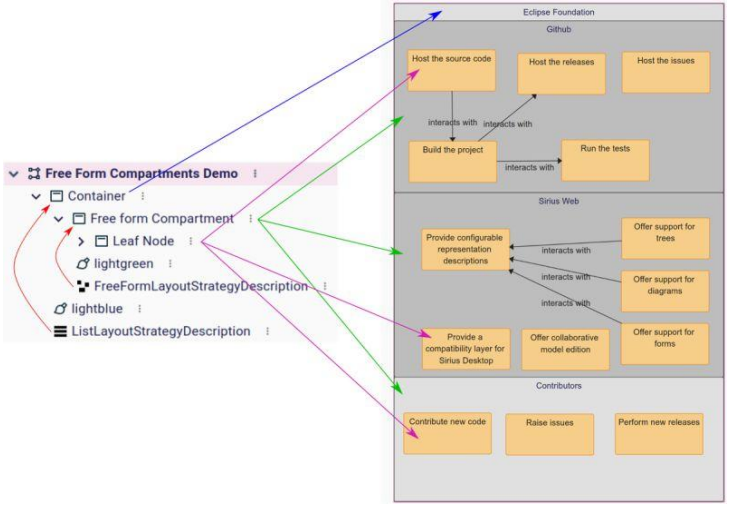
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List Compartments



Free Form Compartments

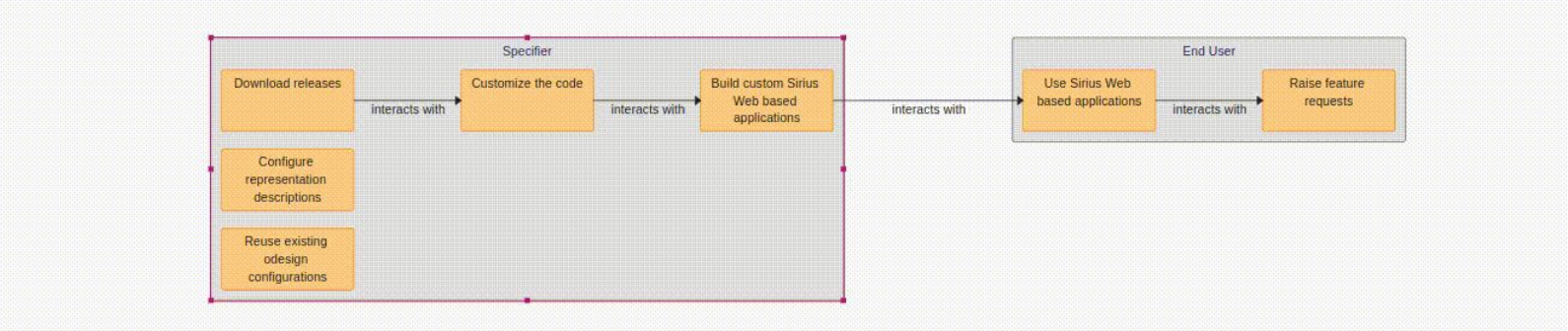


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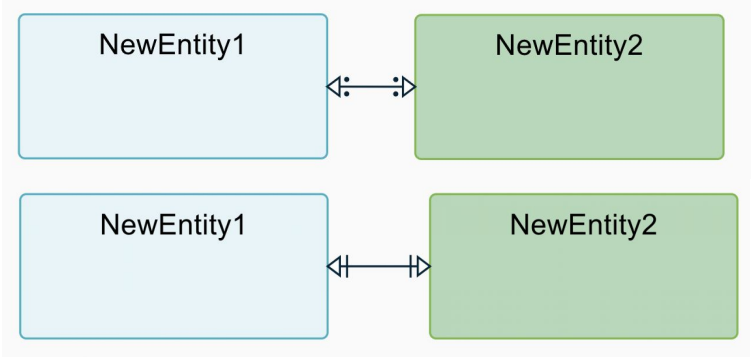
OBEO

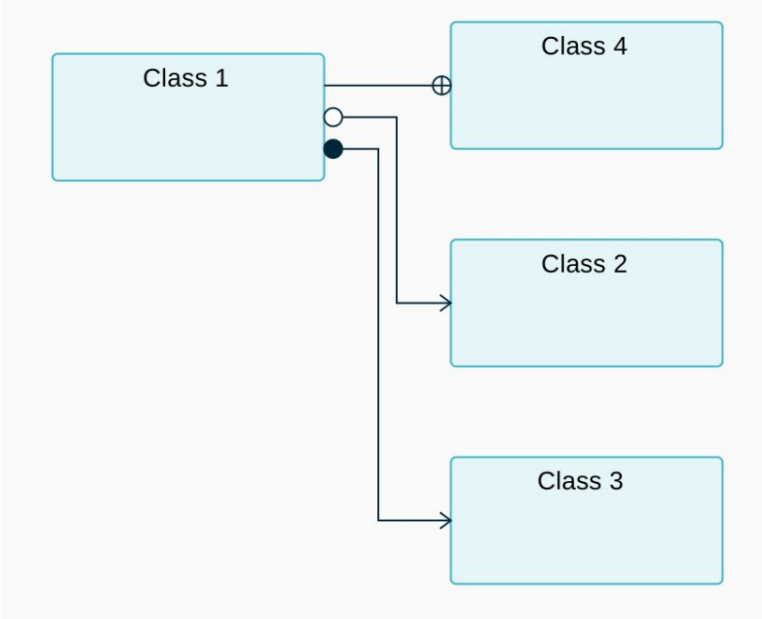
Collapse / Expand



Sirius Web

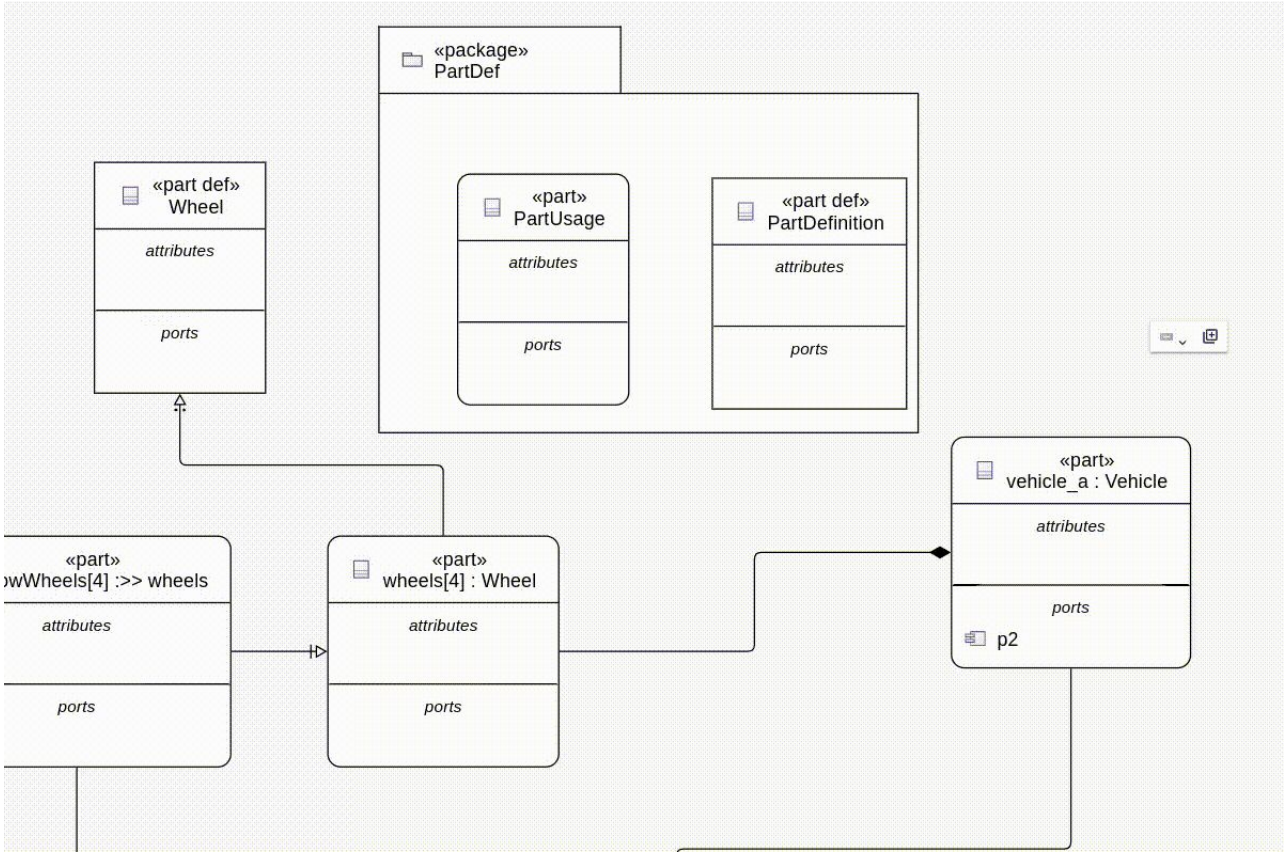
Edge markers





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Drag and Drop

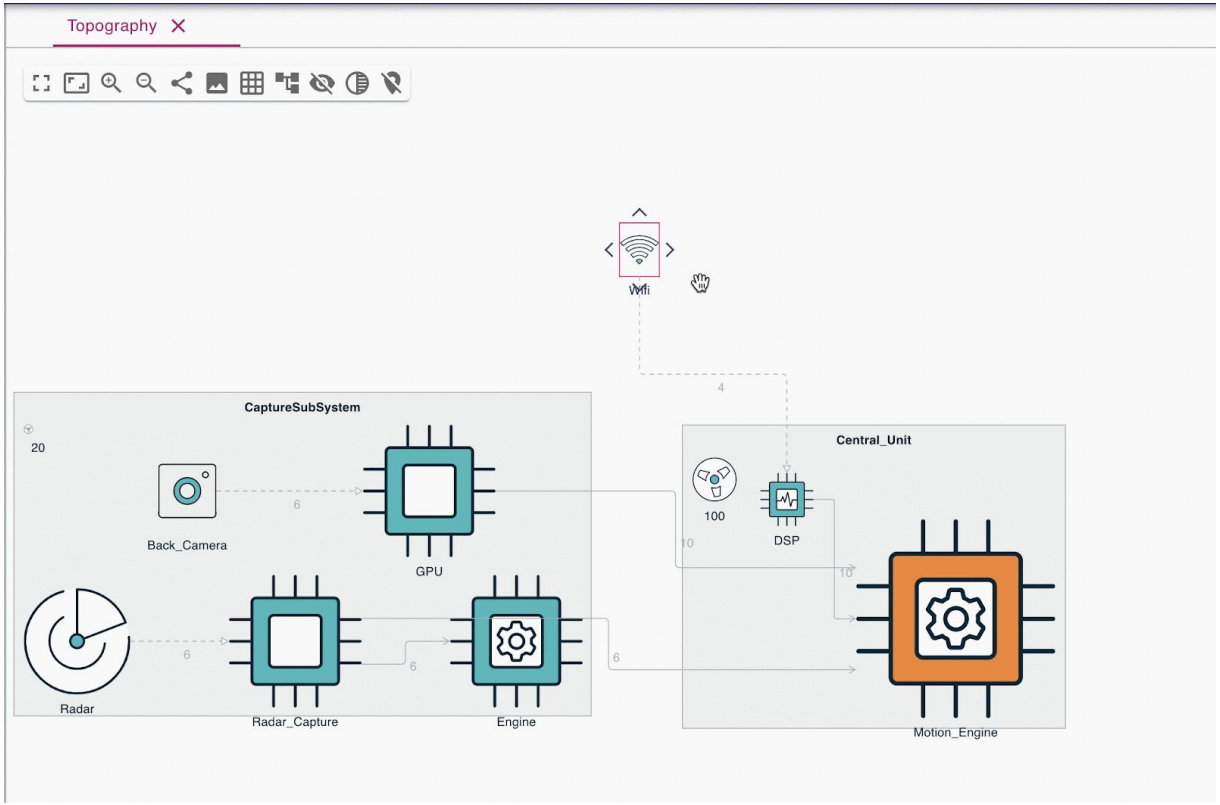


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Pin / Unpin



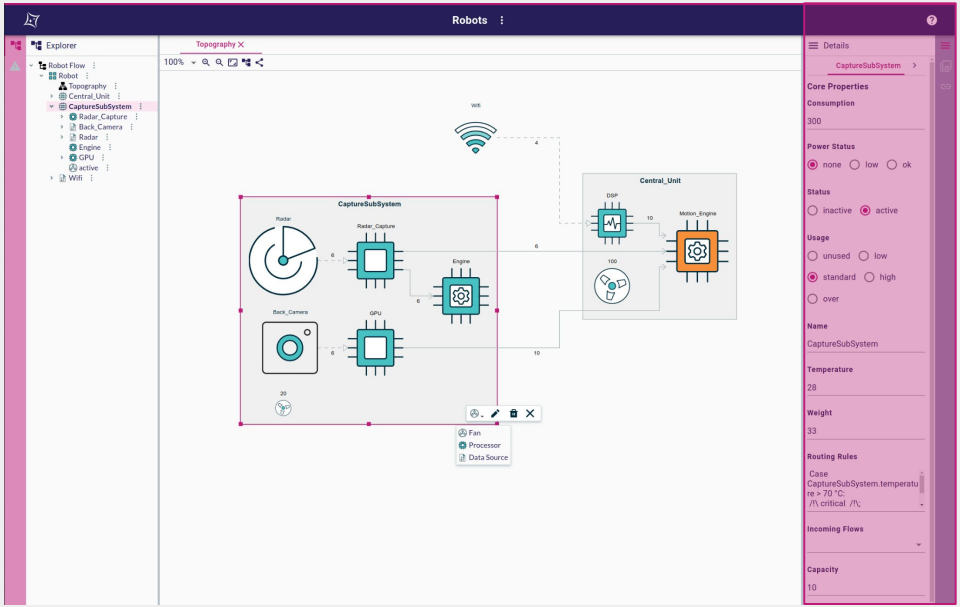
Sirius Web

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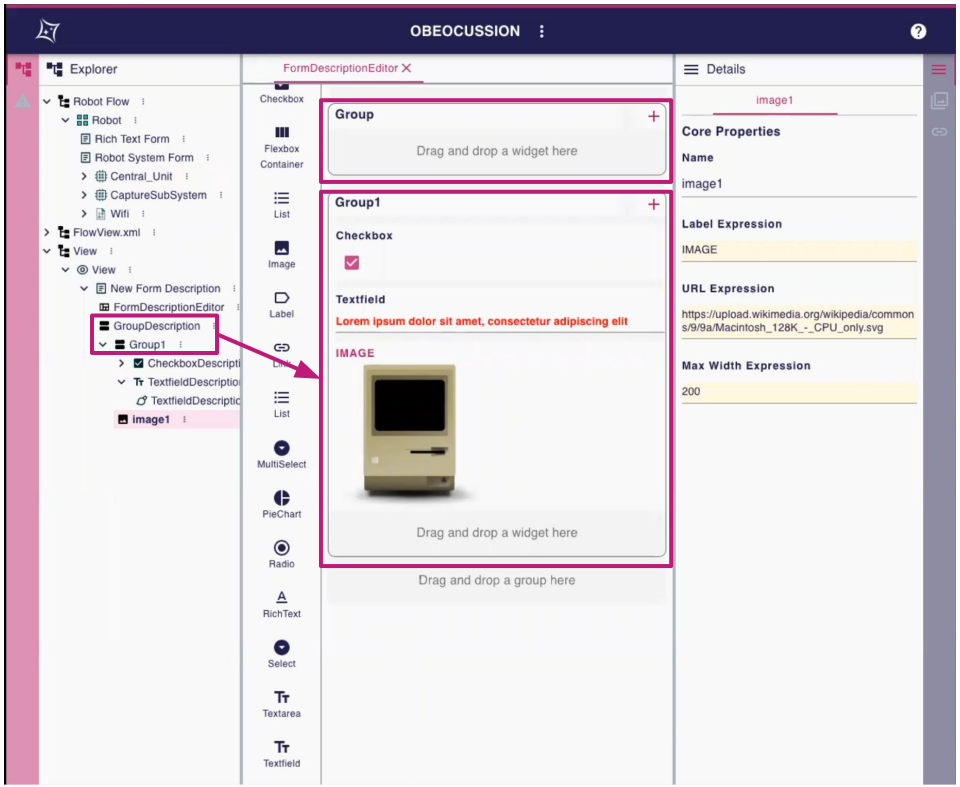
Forms



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Groups

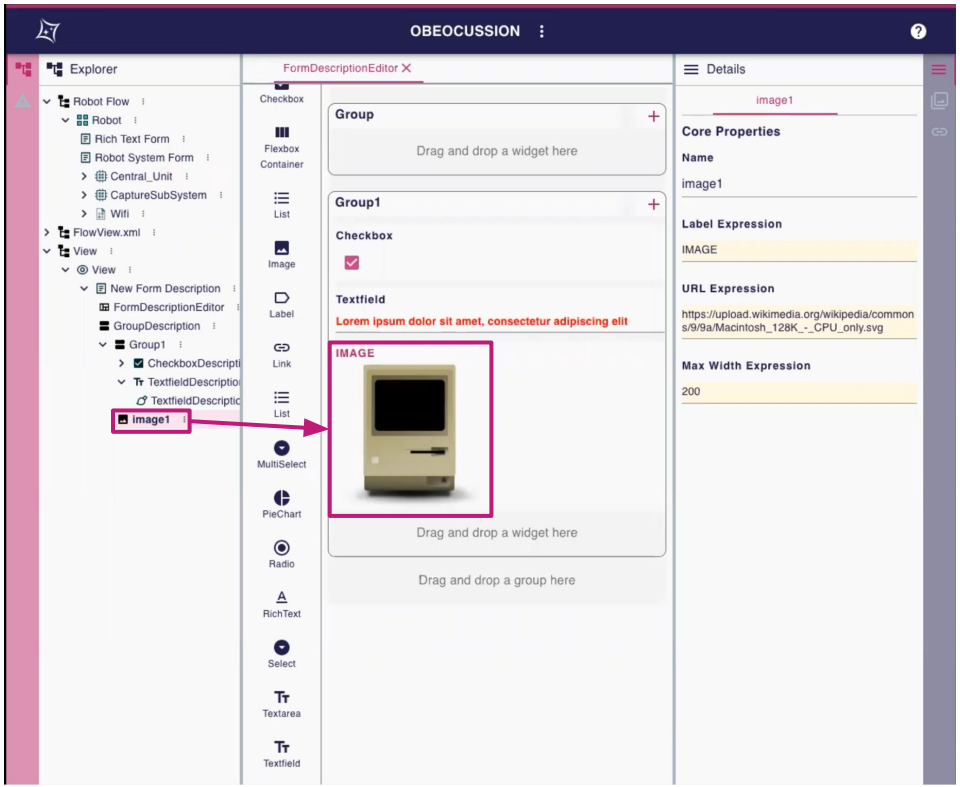


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Image widget

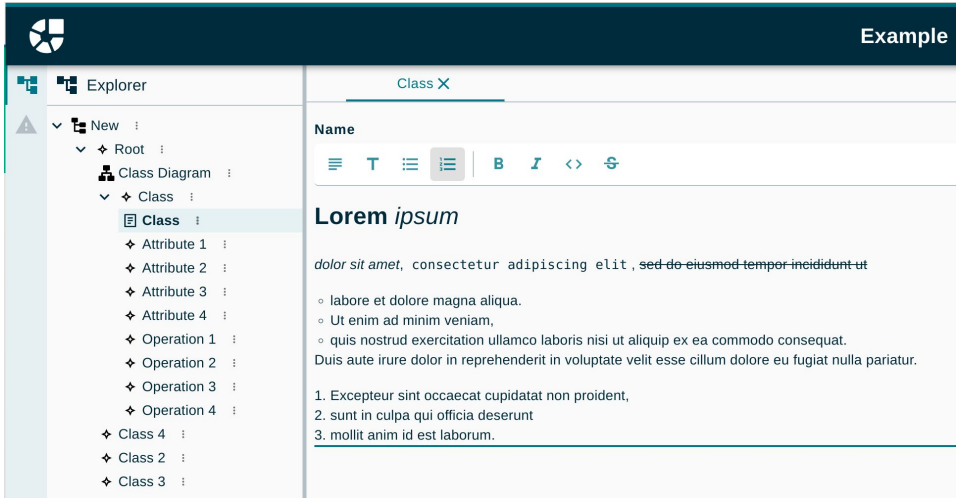


Sirius Web

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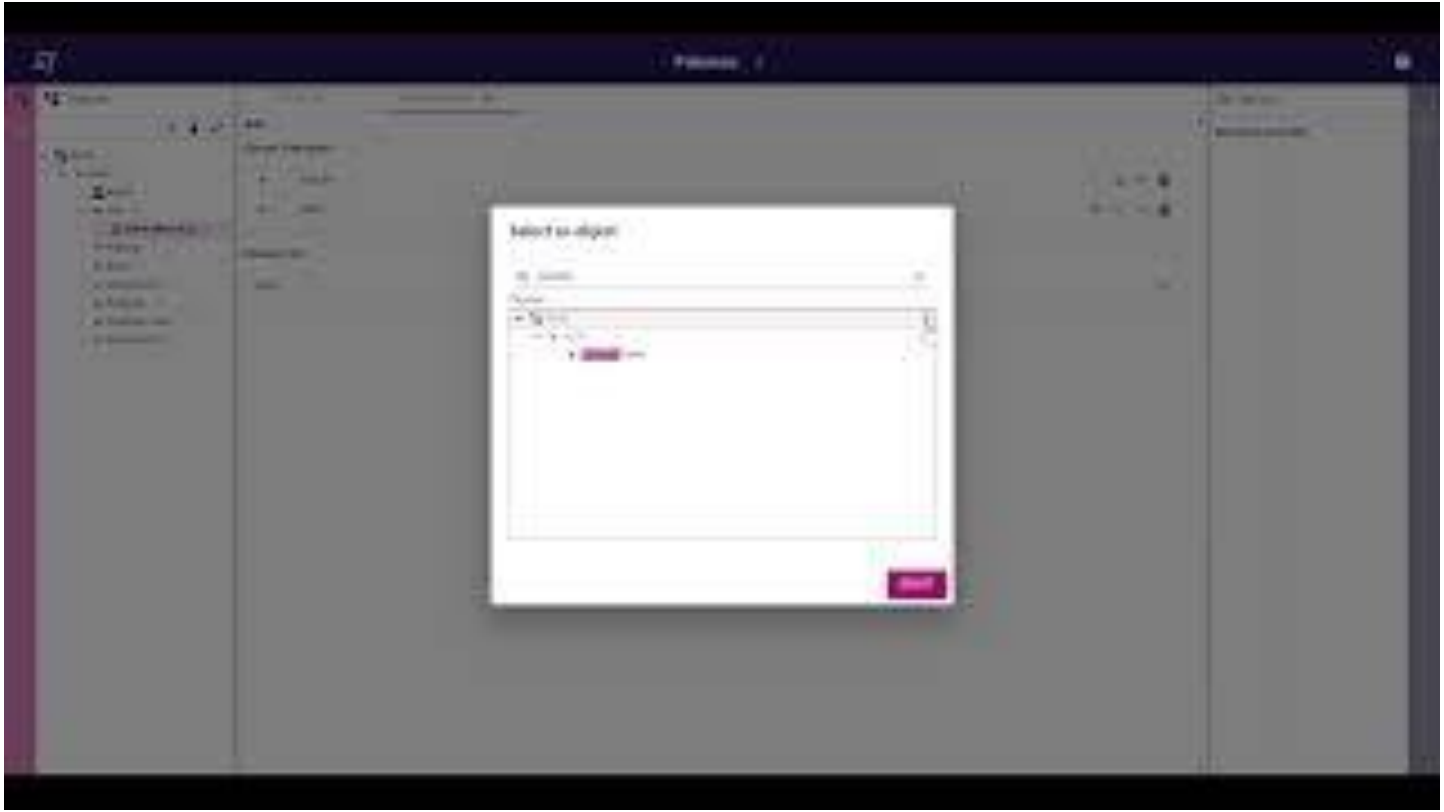
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Rich text widget

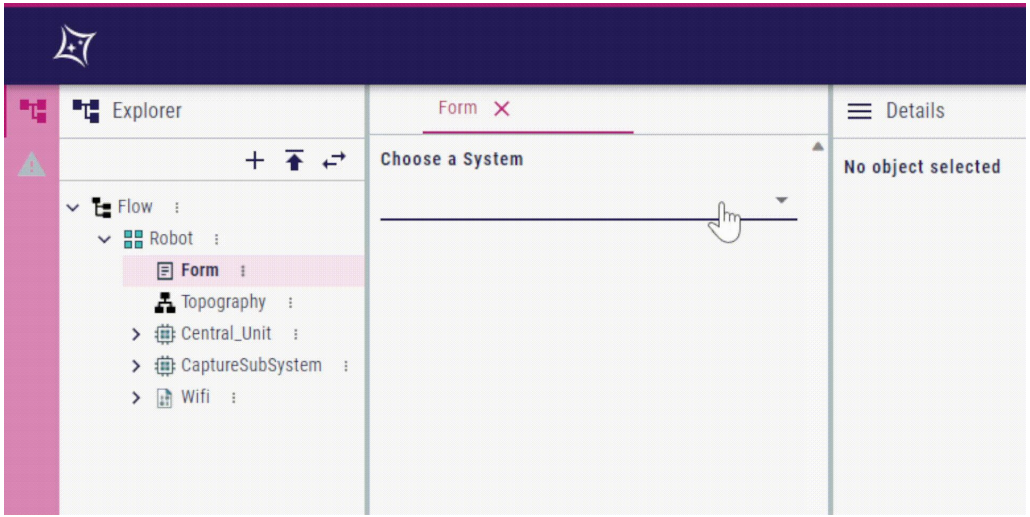


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Reference widget



Icons in Select widget

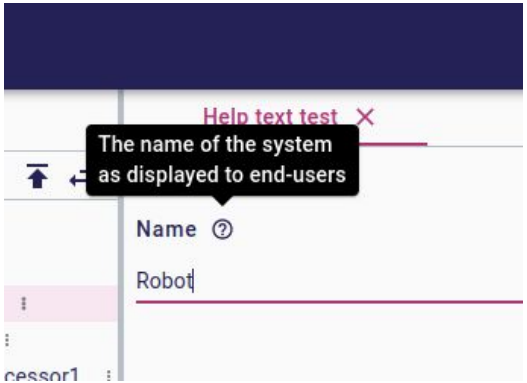


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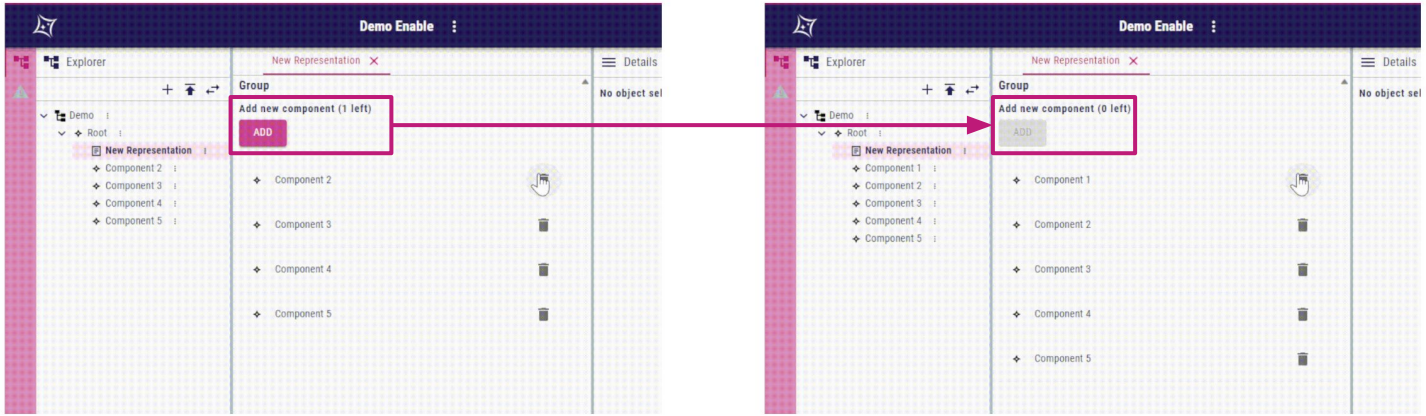
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Tooltip


Help text test
The name of the system
as displayed to end-users
Name
Robot

Enable/disable widget



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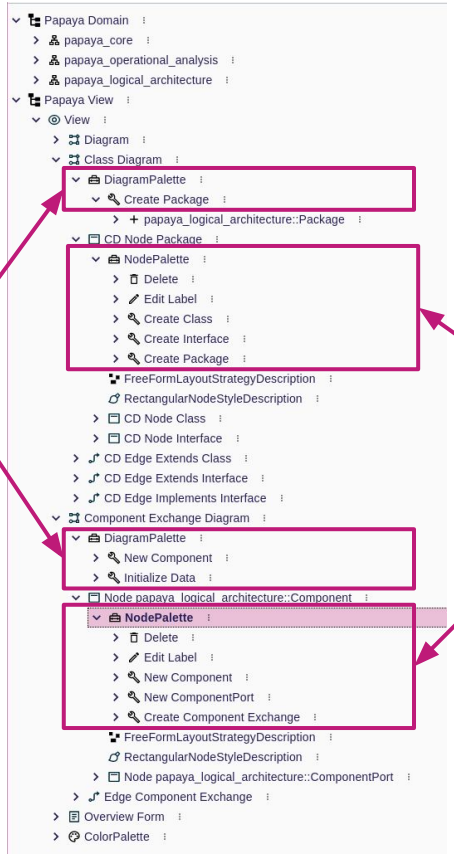
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Studio makers

Explicit Palette

Sirius Web

Diagram Contextual Palette

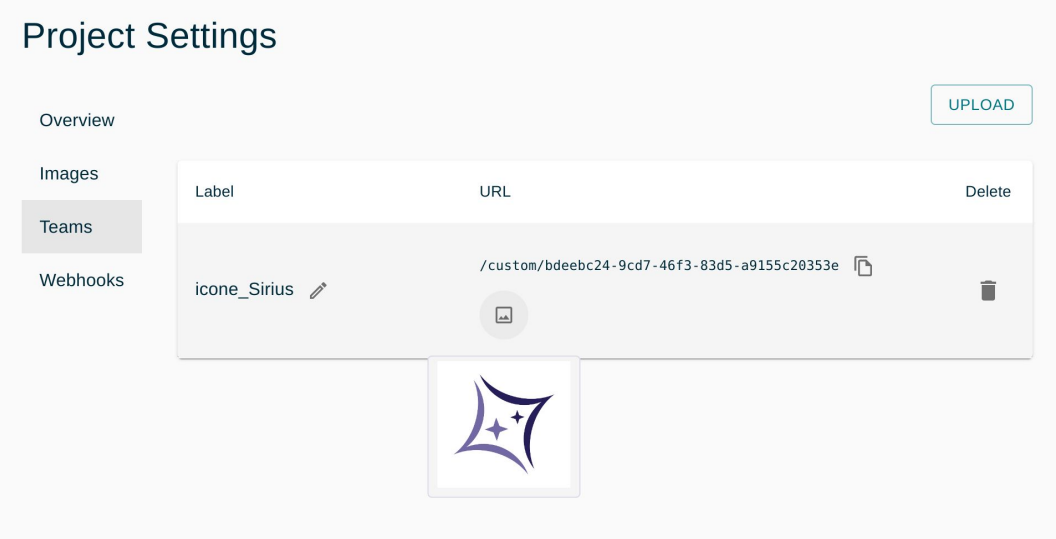


Node Contextual Palette

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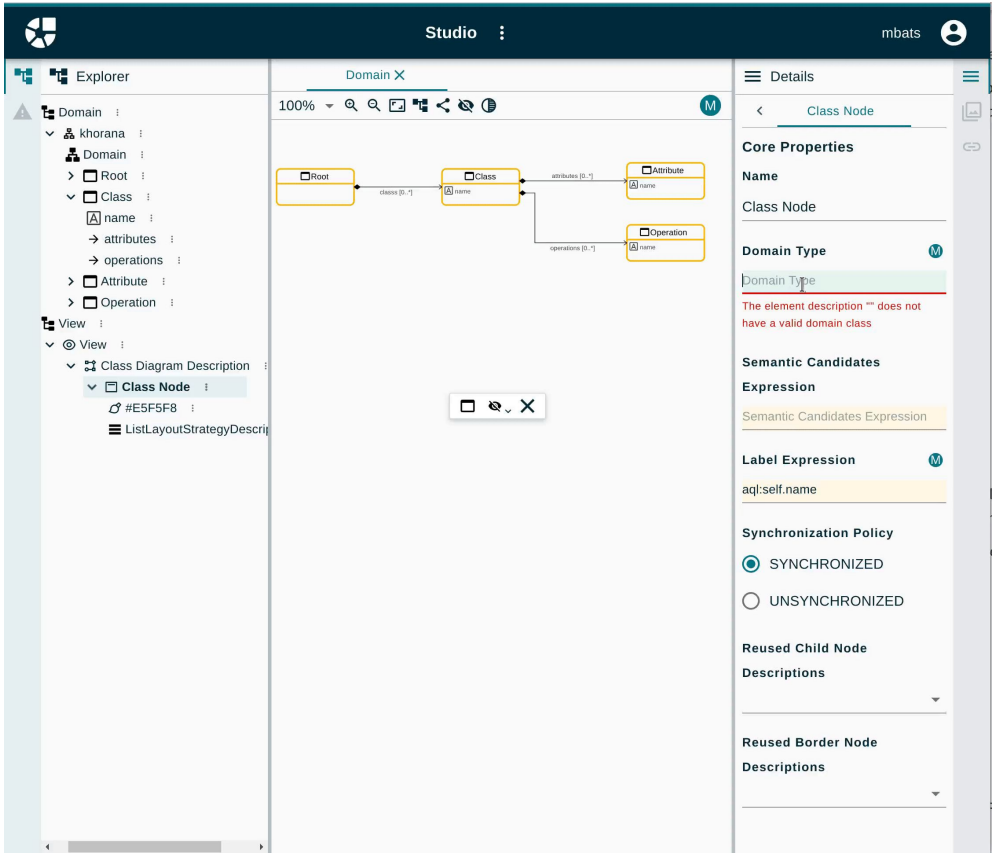
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Provide your images



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AQL completion

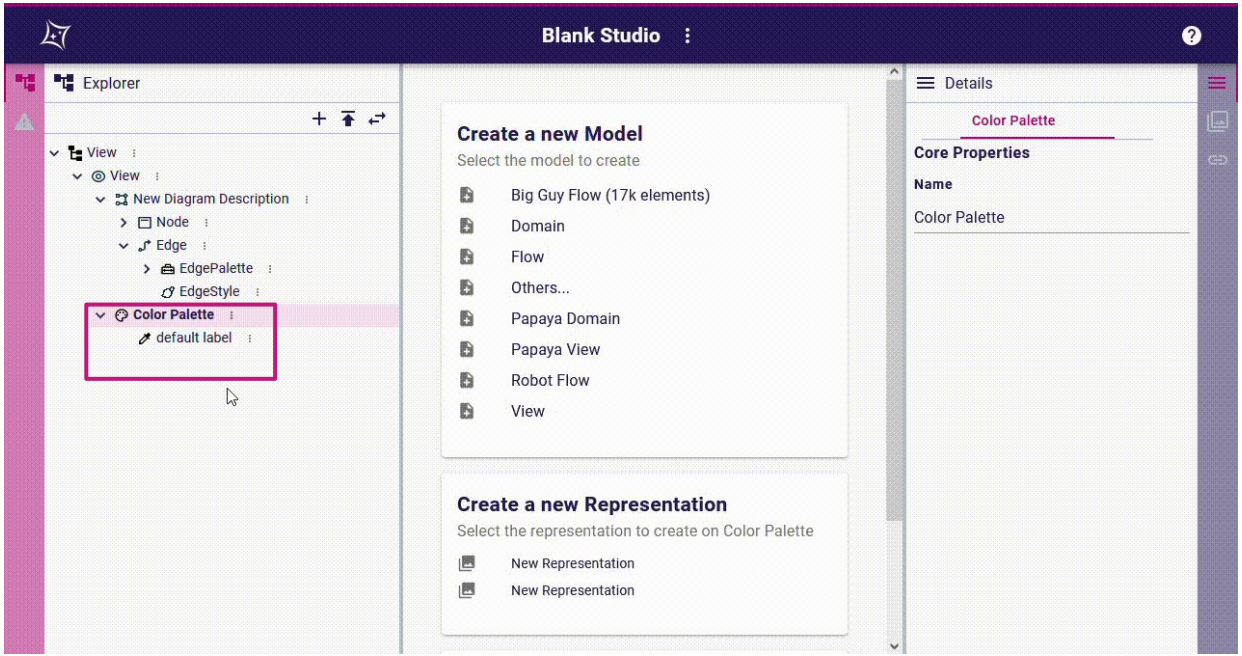


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Color palette

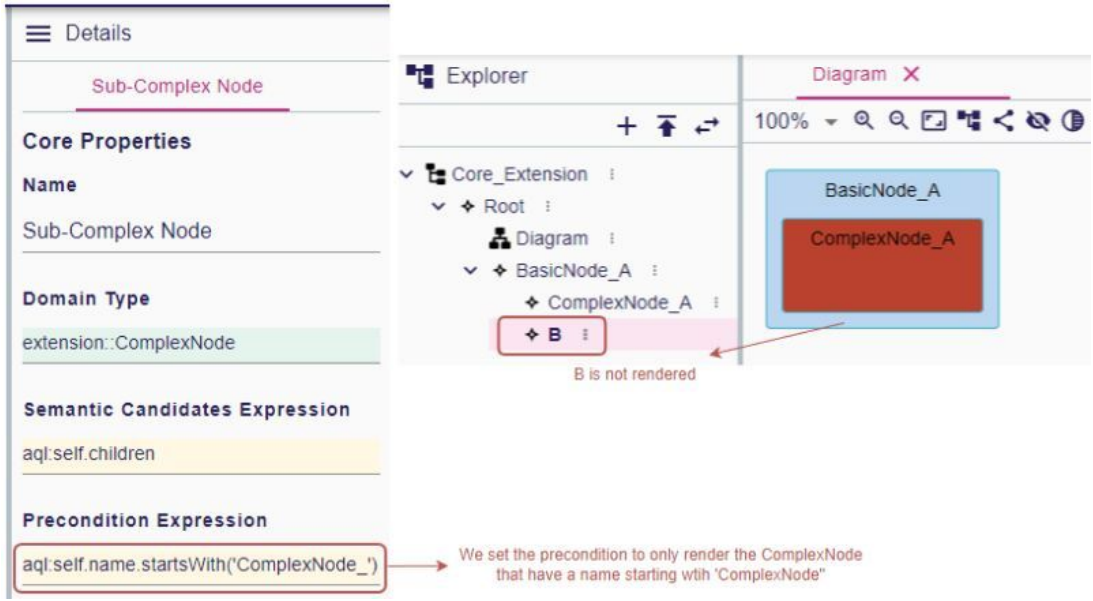


Sirius Web

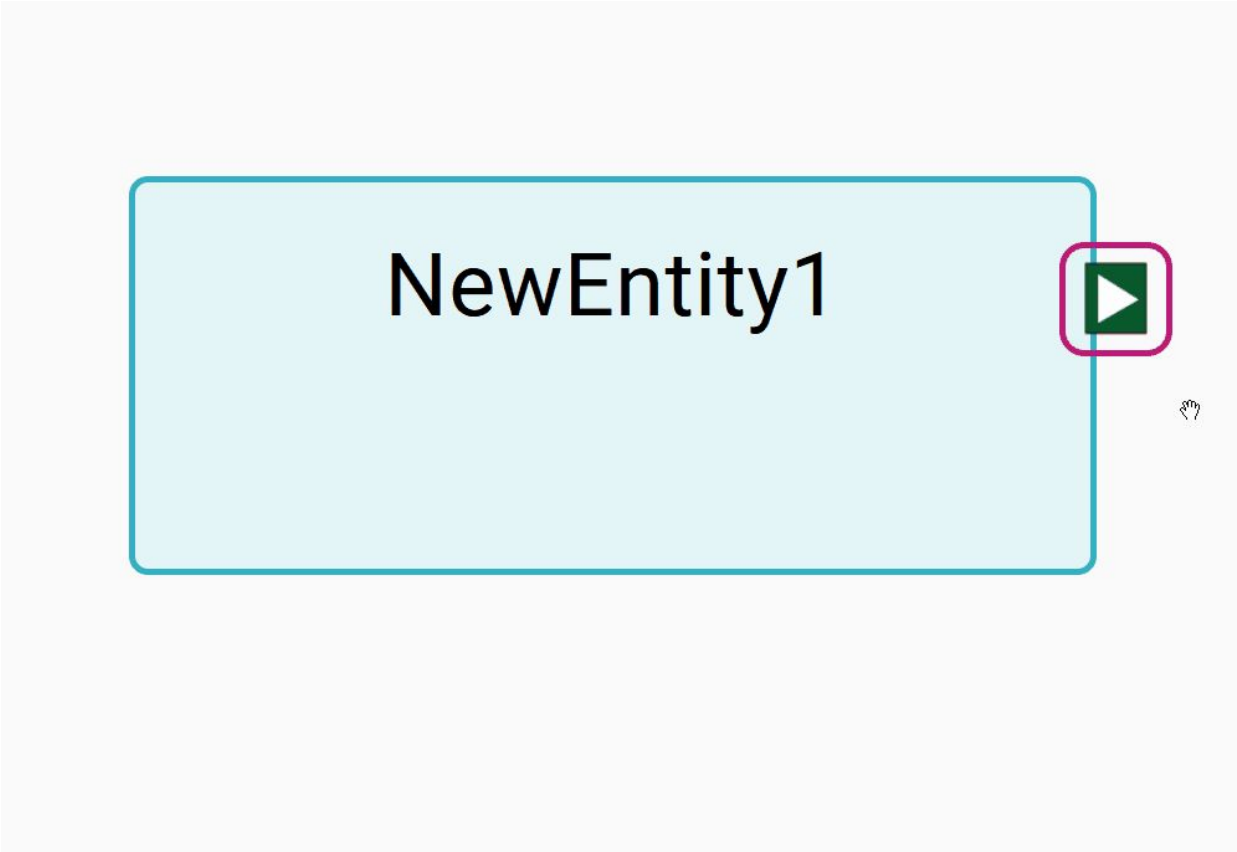
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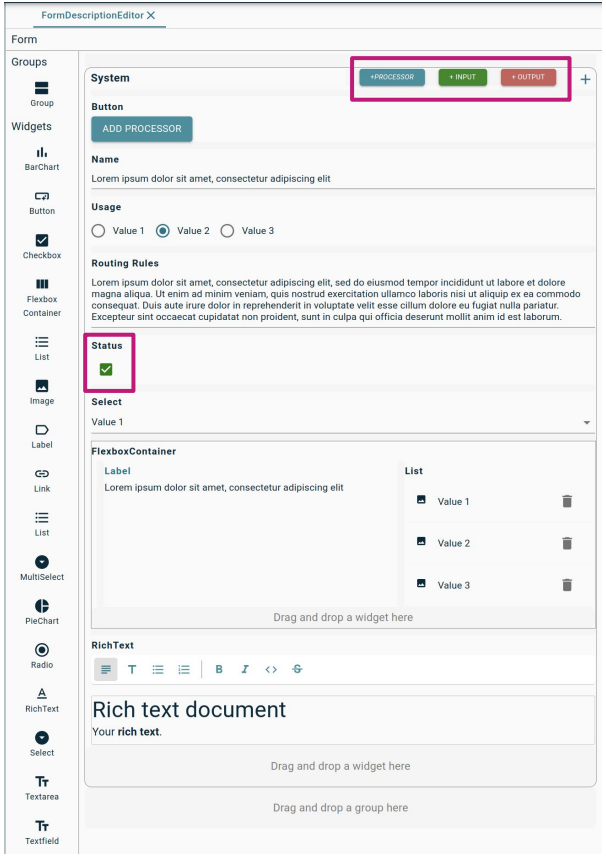
Preconditions



Rotatable border nodes



Style preview in WYSIWYG editor

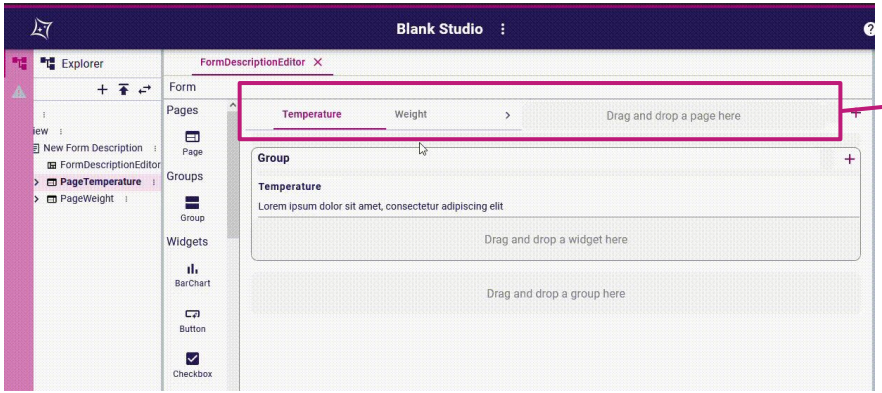


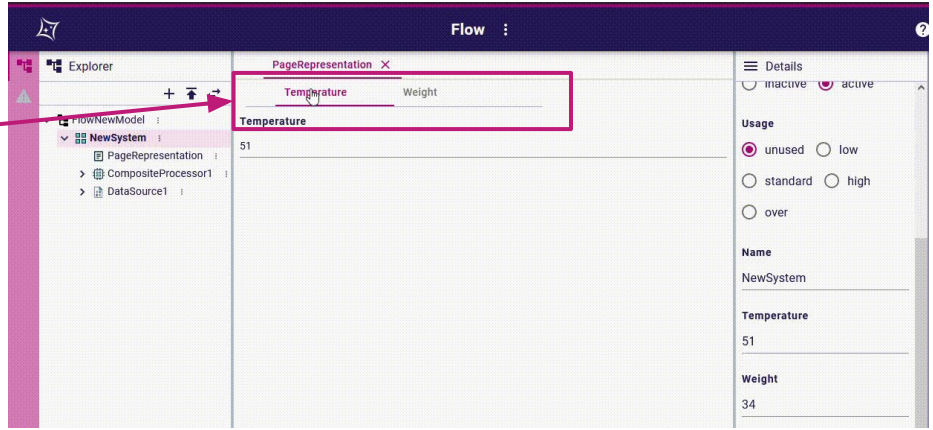
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Multi-pages



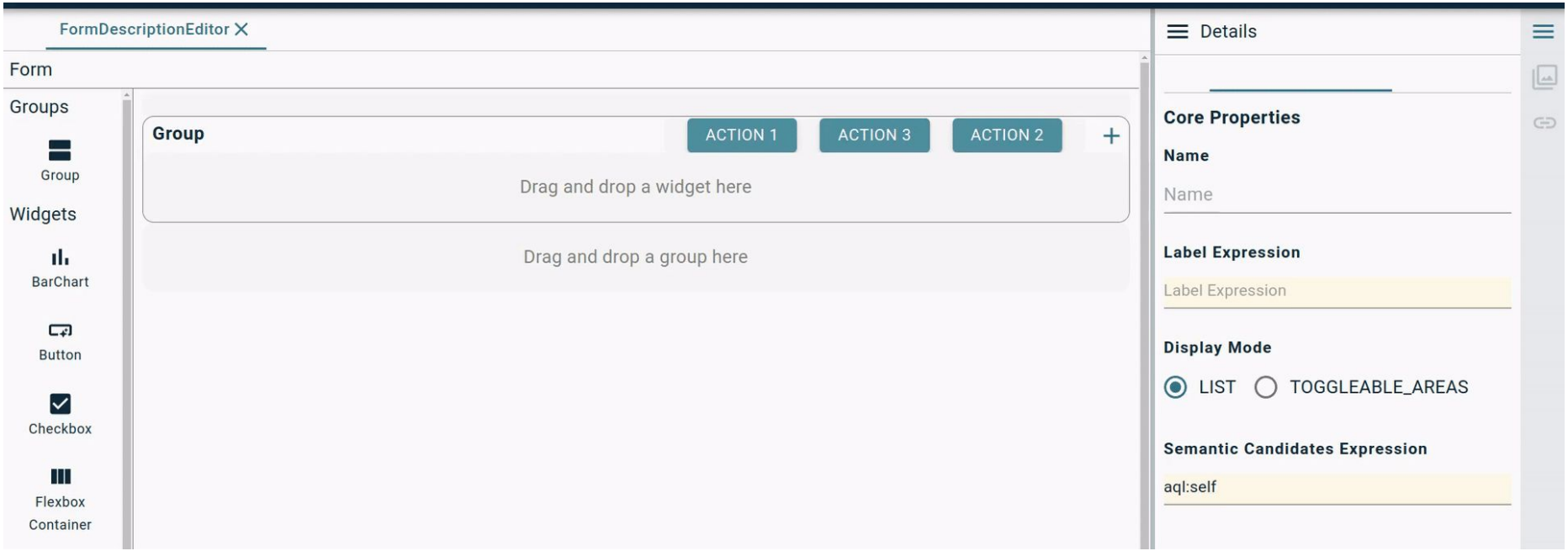


Sirius

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Toolbar actions

Sirius Web



Sirius

OBEO

Developer

Dependencies upgrade

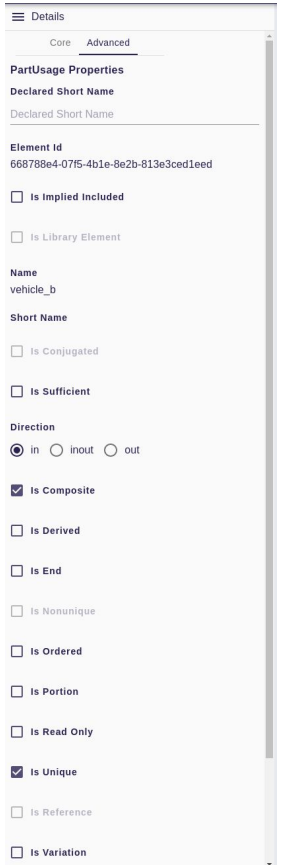
Java 17

Spring Boot 3.1.2

React Flow 11.8.1

Next : Remove Sprotty and Snabbdom

Details view = Form



Sirius Web

Sirius

OBEO

Feedback message





Sirius Web

Sirius

OBEO

Custom widgets



Custom tools



Enhanced Query Capabilities

Query

```
query Viewer {
    viewer {
        editingContext(editingContextId: "5a44f25f-814d-4258-b862-1e78b108fd5d") {
            queryBasedObjects(
                query: "aql:editingContext.contents()"
                variableName: "root"
            ) {
                id
                kind
                label
                queryBasedString(query: "aql:root.containment.name")
            }
        }
    }
}
```

Result

```
{
    "data": {
        "viewer": {
            "editingContext": {
                "queryBasedObjects": [
                    {
                        "id": "02931bee-a184-4266-81f5-6fff2bc4c6cb",
                        "kind": "siriusComponents://semantic?domain=core&entity=Root",
                        "label": "",
                        "queryBasedString": "[BasicNode_A, BasicNode_B]"
                    }
                ]
            }
        }
    }
}
```

API Builder


```
this.diagramBuilderHelper.newEdgeTool()
        .name("Extends Class")
        .targetElementDescriptions(classNodeDescription)
        .body(this.viewBuilderHelper.newChangeContext()
            .expression("aql:semanticEdgeSource")
            .children(this.viewBuilderHelper.newSetValue()
                .featureName("extends")
                .valueExpression("aql:semanticEdgeTarget")
                .build())
            .build())
        .build();
```

Are you still there for...
2024



Sirius

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Sirius Desktop 2024
What’s next ?

Sirius Desktop 7.4.0

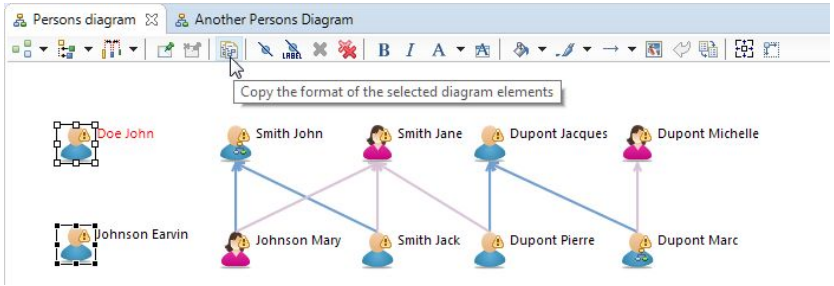
Part of Eclipse 2024-03

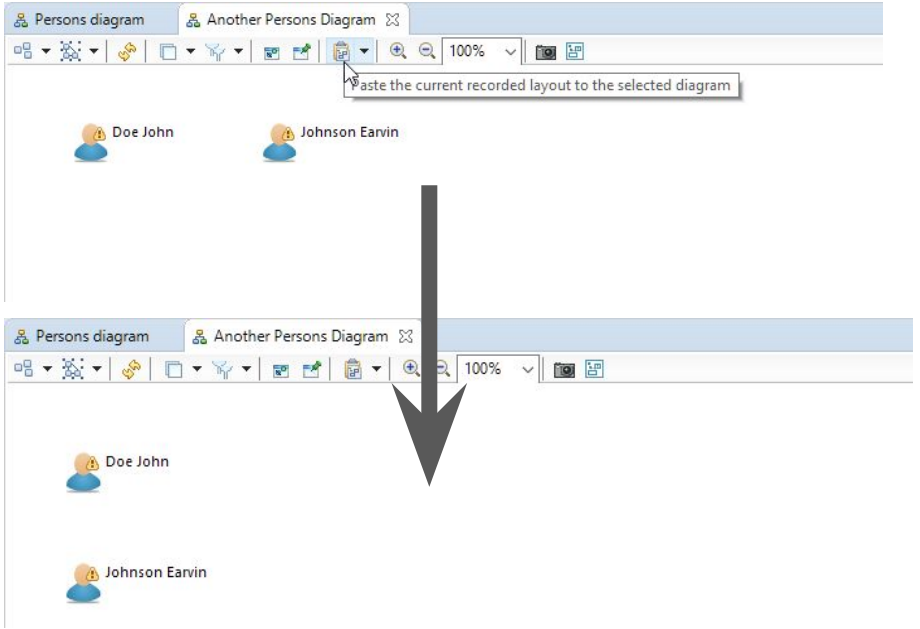


Paste improvements

7.4.0

Support for Copy and Paste style from one diagram to another



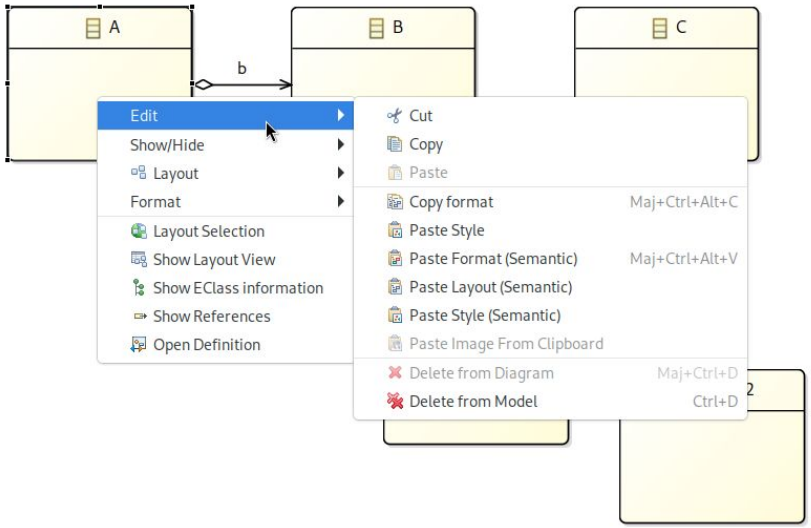


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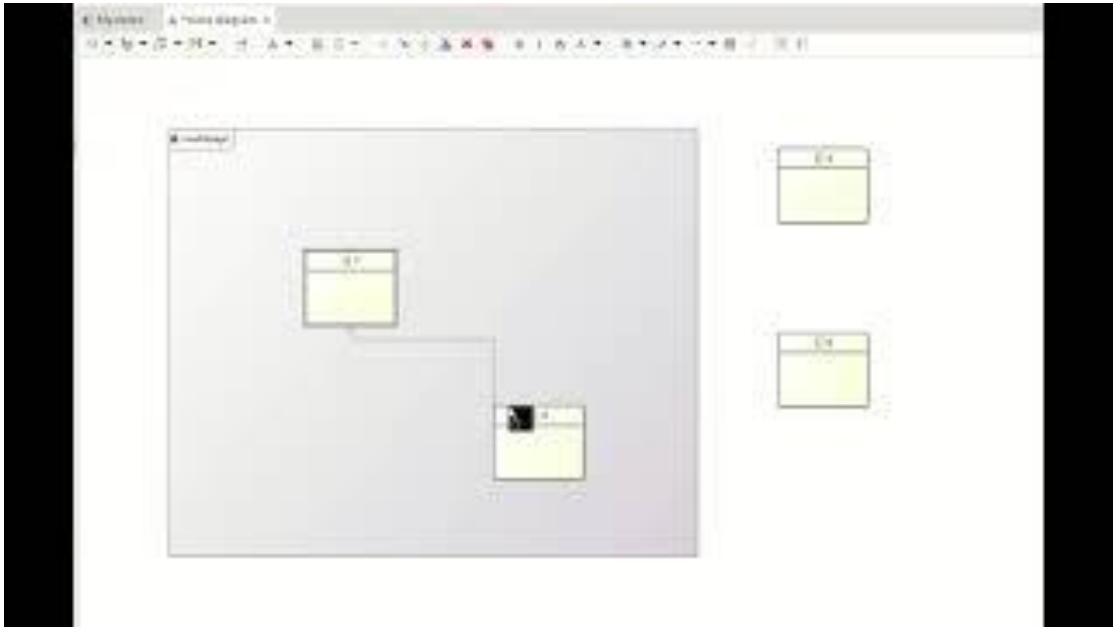
Paste improvements

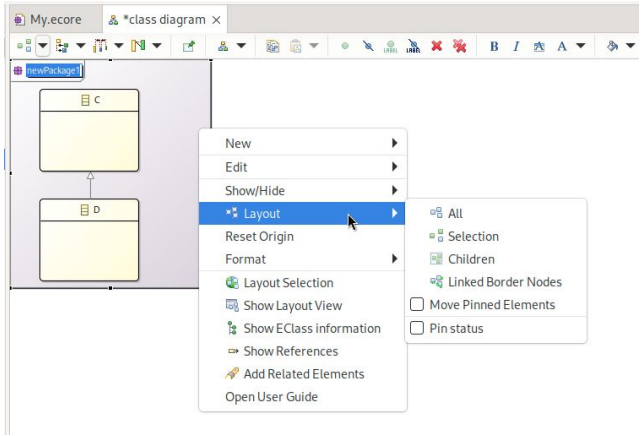
Paste Format, Style and Layout renamed Semantic paste



Layout

7.4.0



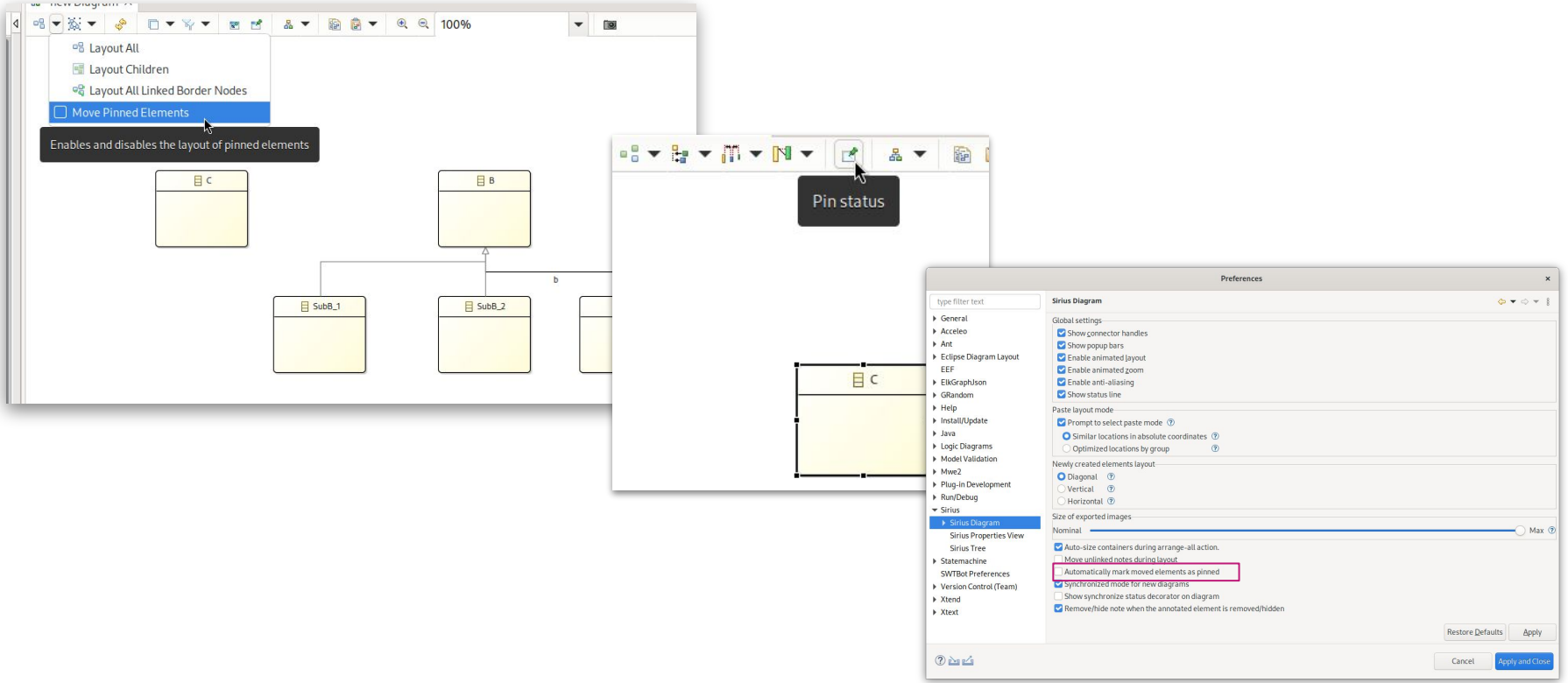


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Pin/Unpin evolutions

7.4.0



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Table

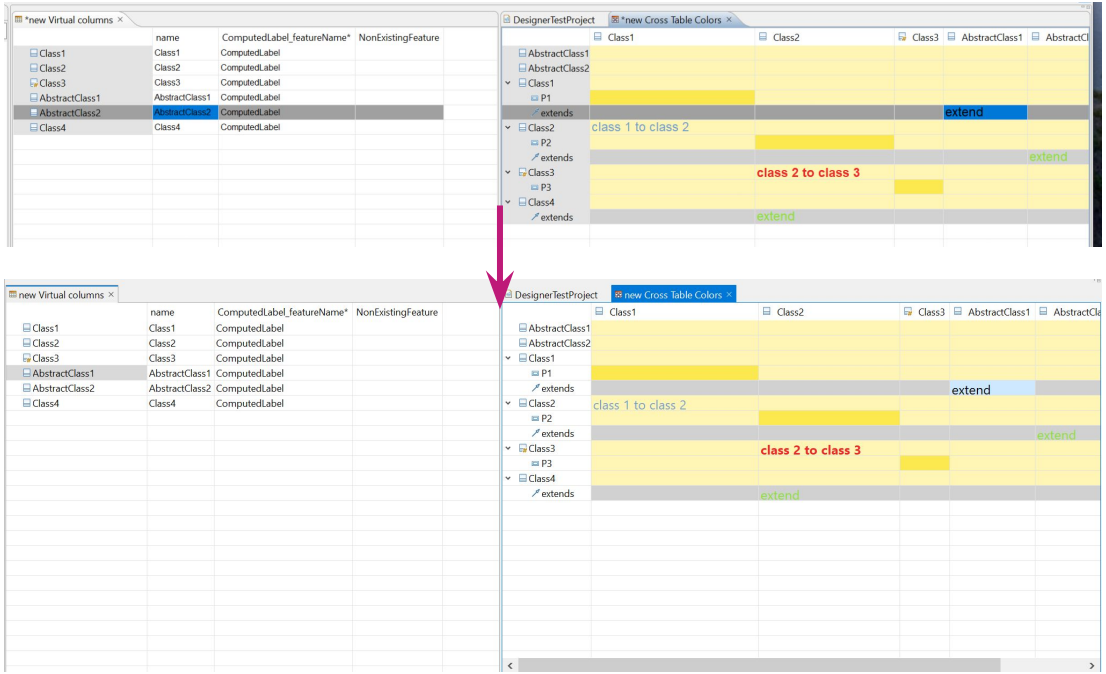
7.4.0

Improved table rendering

- fonts, text size, selection colors

New variables available

- enables more powerful tools



Sirius

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Color

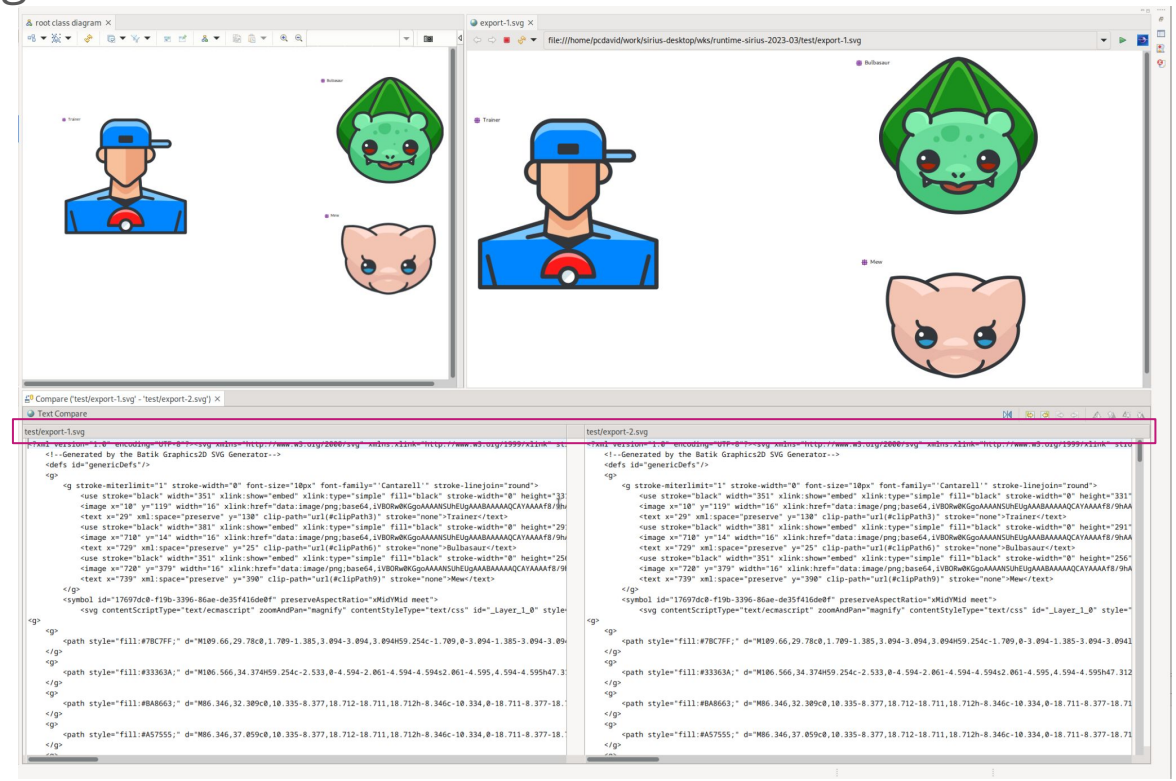
New color selection popup dialog to choose the color (label, fill and line)



Diagram Export as SVG

7.4.0

Stable as long as resources are the same

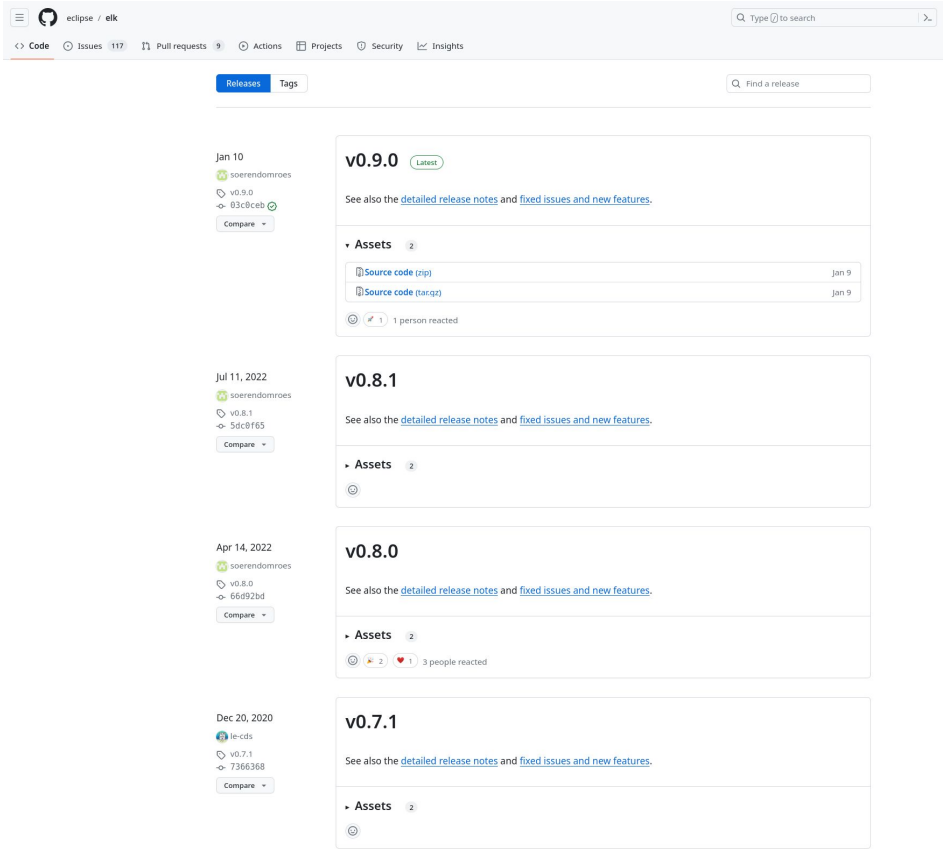


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ELK 0.7.1 to 0.9.0

7.4.0

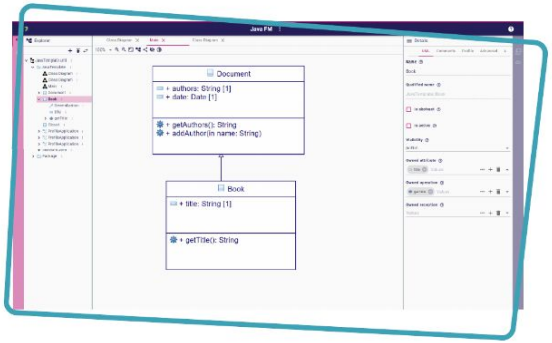


Sirius

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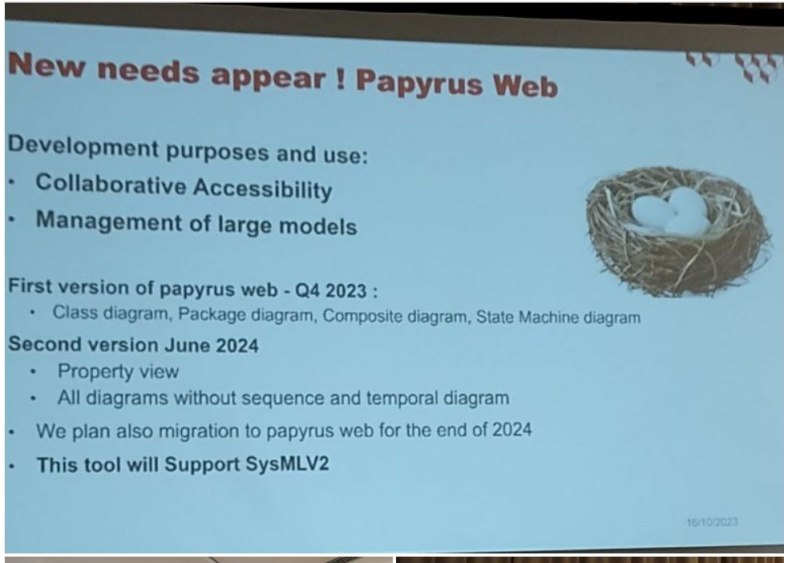
Projects Developed with Obeo

Eclipse Papyrus™

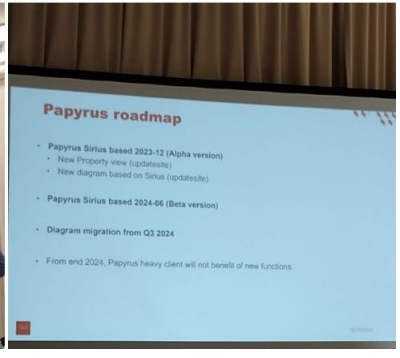


UNIFIED MODELING UML®

Papyrus





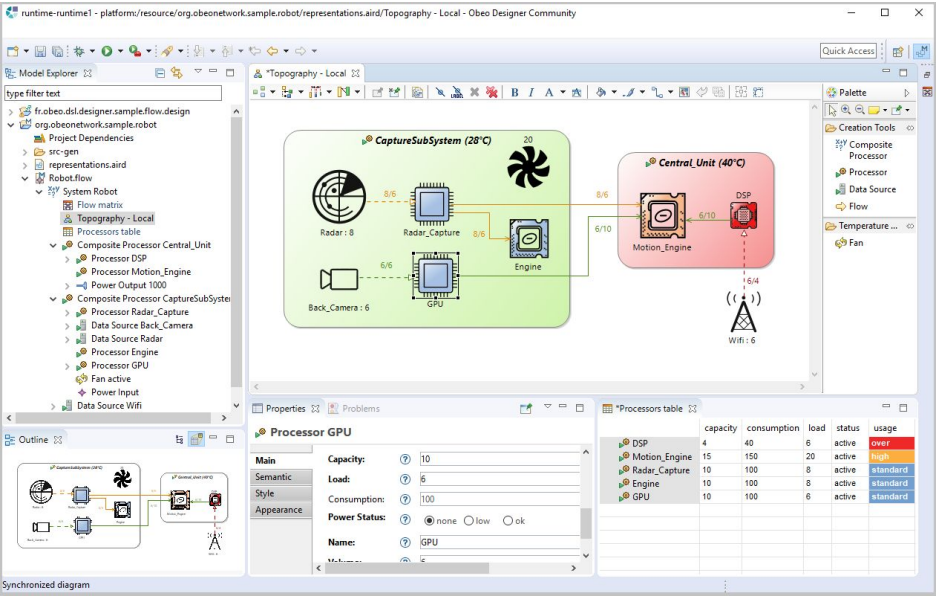


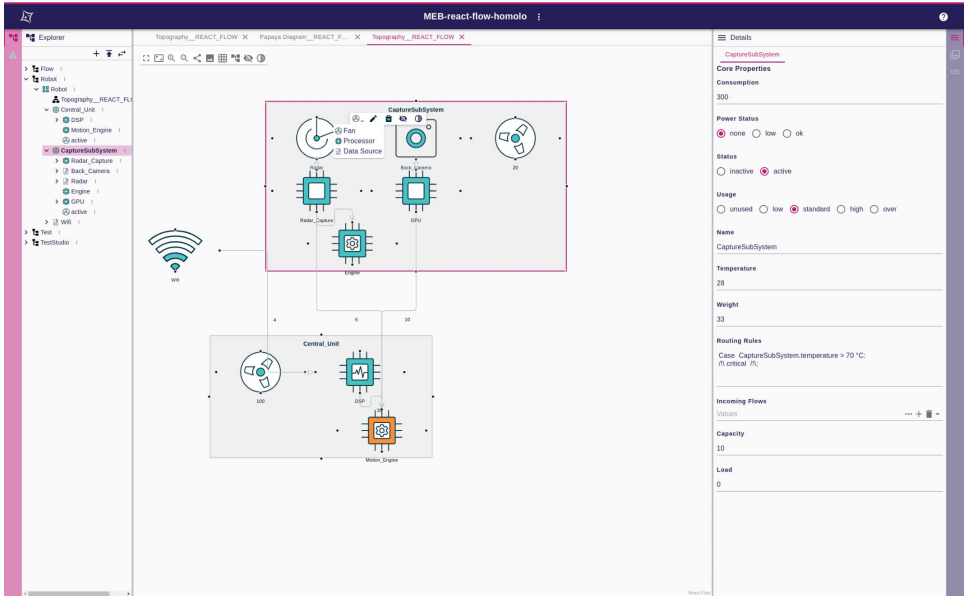
Sirius

OBEO

Sirius Web 2024
What’s next ?

Sirius Desktop vs Sirius Web





Sirius

OBEO

Diagrams

		Desktop	Web
Selection			
	Views synchronization (explorer, properties...)	ok	ok
	Viewport animation	ko	ok
	Multi selection	partial	2024.5
General Tools			
	Zoom in/out	ok	ok
	Full screen	ko	ok
	Edit mode	ok	partial
	Undo/Redo	ok	2024
	Copy/Paste	ok	2024

Sirius

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		Desktop	Web
Palette			
	Fixed palette	ok	ko
	Contextual palette	ok	ok
	CRUD	ok	ok
	Magic connector	ko	ok
	Hide / Fade	partial	partial
	Collapse / Expand	ko	ok
	Drop	ok	ok
	Custom tool	ko	ok

		Desktop	Web
Style			
	Edit graphical properties	ok	ko
	Default shapes	ok	ok
	Compartments (List / Free form)	ok	ok
	Custom shapes	partial	ok

		Desktop	Web
Share			
	One link share	ko	ok
	Export project	ok	ok
	Export model	ok	ok
	Export diagram	ok	ok
	Export diagram as image	ok	ok
Outline		ok	2024

		Desktop	Web
Layout			
	Arrange-all	ok	ok
	Auto size	ok	ok
	Ruler and grid	ok	ok
	Align / Distribute	ok	2024.3
	Pin	ok	partial
	Copy/Paste format	ok	ko
	Edge style	ok	partial
	Edge bendpoints	ok	partial
	Assisted layout	ko	partial

OCP

Obeo Cloud Platform

Enterprise features for your modeling tool

Users Management

Control who can connect

With Obeo Studio, only users authorized by the administrator can access the hosted projects and their contained models.

Once connected, any user is able to create a project and share it with other users.



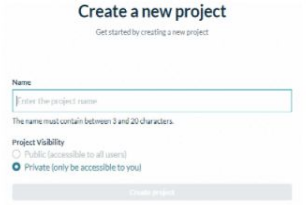


Indicators of Active Users

View in real-time who is working on a diagram

Visual indicators show you in real-time the other users who are currently working on the same diagram as you.

Indicators also show you who is on the objects that you are editing and which properties are currently changing.



Public/Private Projects

Control who can access your projects

By default, a project created by a user is only visible to him (private).

To share a project with other users, its owner can make it public and/or define access rights.

LDAP Authentication

Rely on your internal access directory

To control users' login and password, you can connect to your internal access directory managed with LDAP.

It guarantees secured management of how users can connect to OCP Modeler.



Teams

Define role-based access control

Permissions on a project (read, write, admin) are defined by creating teams.

It allows the administrators of a project to manage users depending of roles shared by a set of other users (rather than defining the permissions at the individuals' level).



Powered by Sirius Web

Eclipse Sirius is an open-source technology that dramatically reduces the time and effort for creating domain-specific modeling workbenches.

With **Obeo Studio** modeling tools are defined with Sirius Web, the web-based flavor of Sirius, deployed to the Cloud, and then rendered in a web browser.

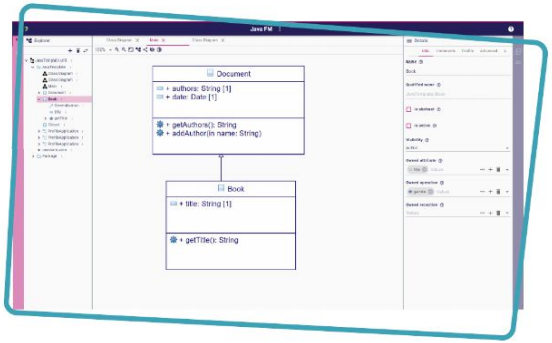
Learn more about Sirius Web

Sirius

OBEO

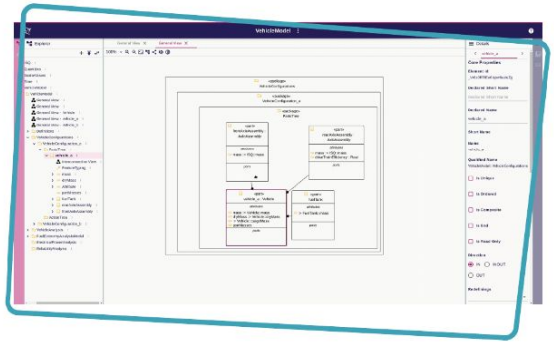
Projects Developed with Obeo

Eclipse Papyrus™



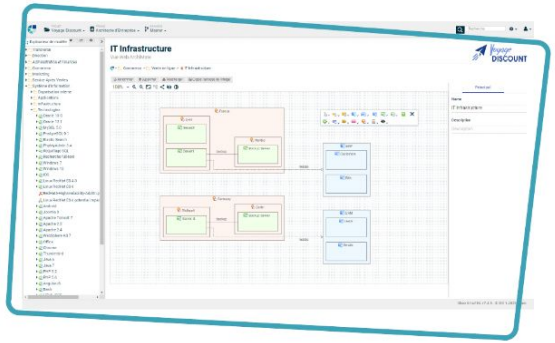
UNIFIED MODELING UML®

Eclipse SysON



OMG SYSTEMS MODELING LANGUAGE SysML™

Obeo SmartEA®



ARCHIMATE®

Sirius

OBEO

Eclipse SysON

Sirius Web

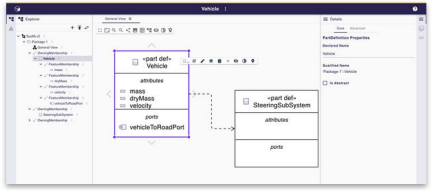
SysON

FEATURES ROADMAP SUPPORT SOURCE CODE

THE NEXTGEN SYSML MODELING TOOL

Edit SysML v2 models with Eclipse SysON, an open-source and web-based MBSE modeling tool.

SOURCE CODE



Standard Compliant

SysON aims at providing an implementation of the OMG's specification **SysML v2**: language concepts, REST API, and interoperability textual format

Web-Based

Graphical, form-based and tabular structured editors that can be used from a web browser, without any specific installation on user's desktop

Open-Source

Hosted in the Eclipse community, SysON aims to catalyze industrial collaboration, accelerate innovation, and foster the adoption of SysMLv2

WHY

SysML was created in 2005 as a standard for model-based systems engineering (MBSE) to elevate the role of models as primary tools for communication and documentation.

With system complexity continuing to escalate exponentially, and Digital Engineering emerging as a pivotal pillar to address an ever-challenging world, SysML 2.0 has been specified as the next-generation systems modeling language to improve precision, expressiveness, and usability.

SysON's objective is to provide System Engineers with super easy access to this new standard, at minimal cost and great ease of use, with the guarantee of interoperability with other open-source MBSE tools notably Capella and Papyrus.

This will be achieved through three means: the support of the SysML 2.0 standard, the use of state-of-the-art web technologies, and an open-source approach.

Sirius

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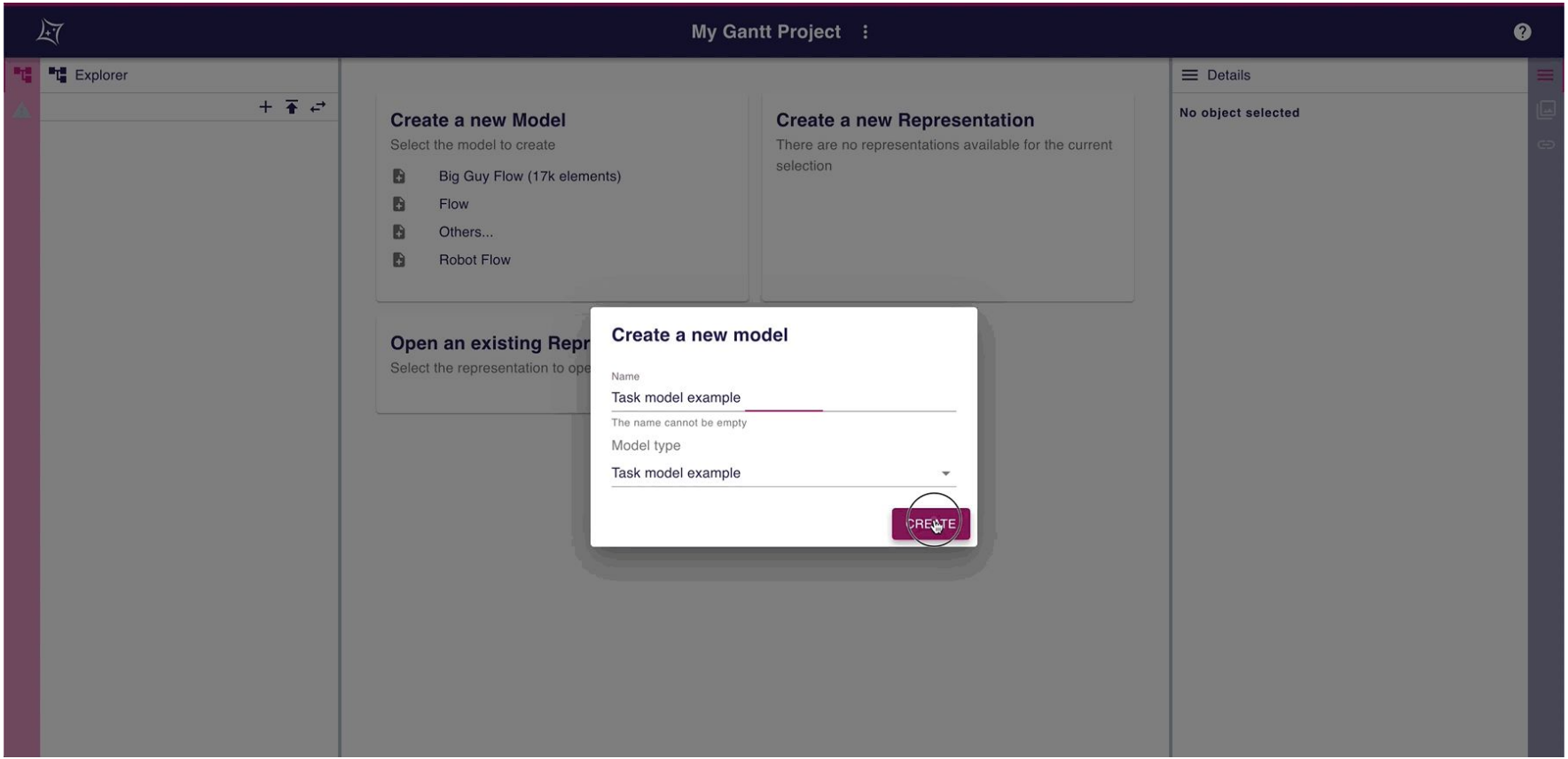
Sirius Web / OCP
Roadmap

Q1/Q2 2024

2024.3

2024.5

Gantt

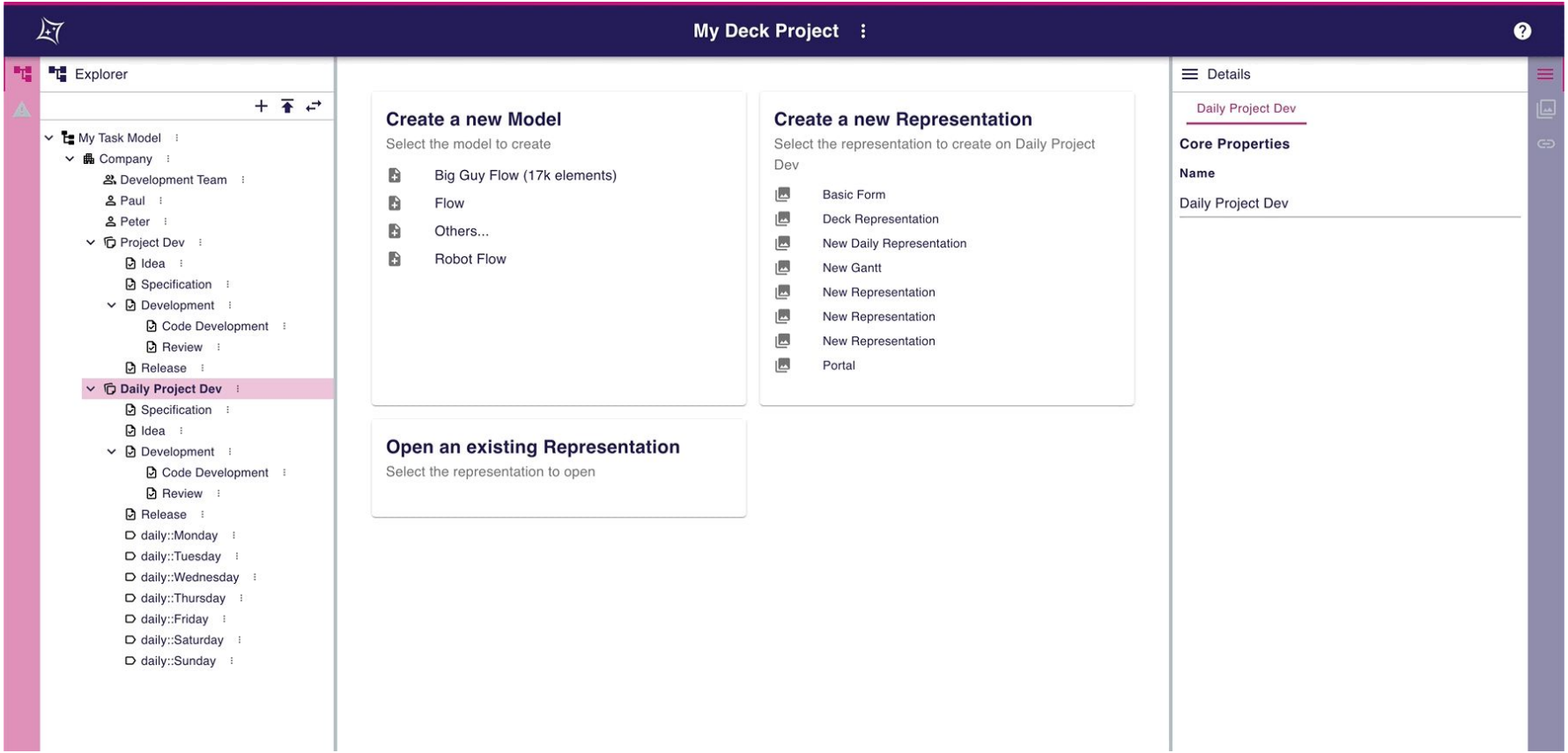


Sirius Web

Sirius

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Deck

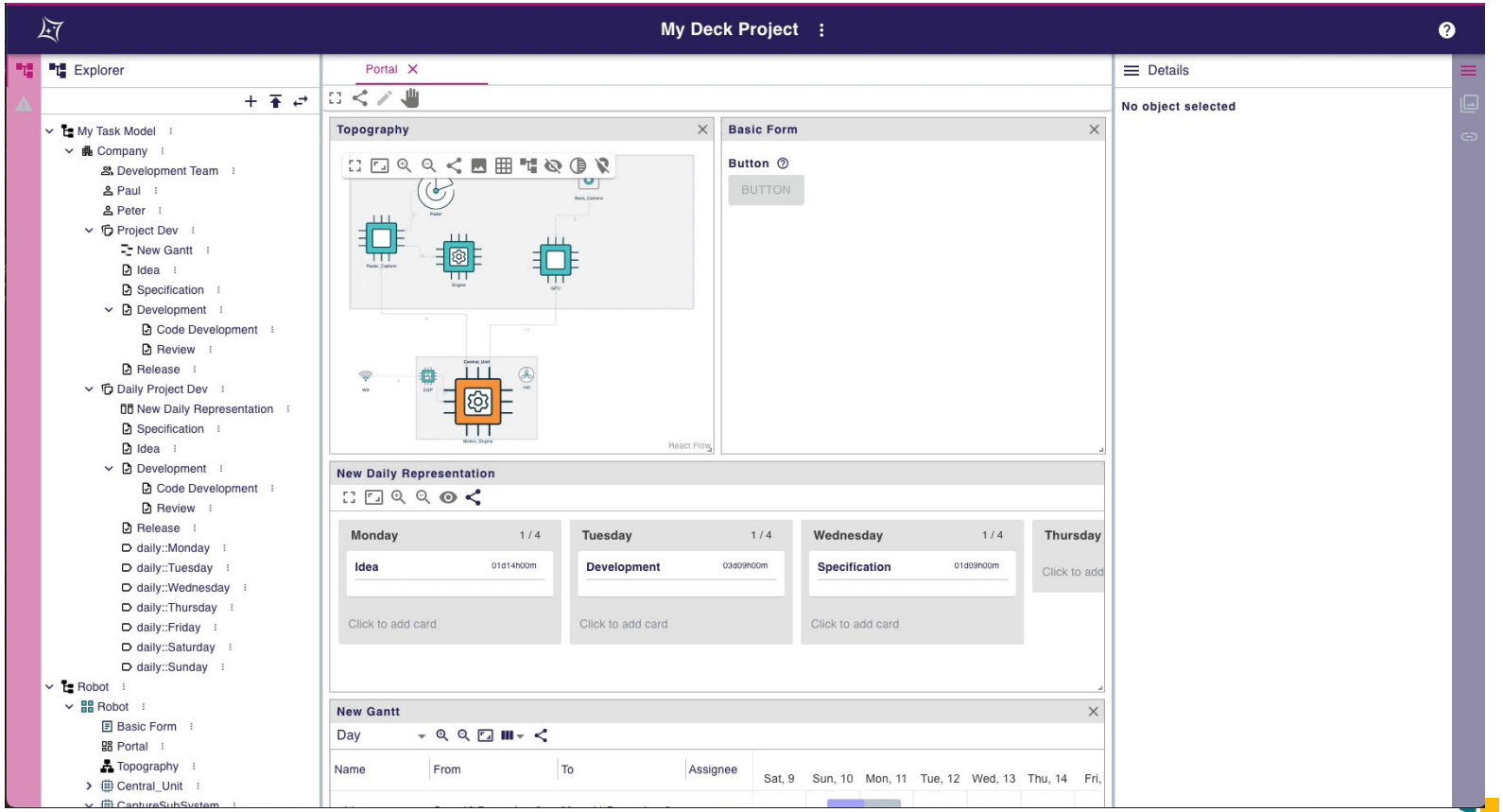


Sirius Web

Sirius

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Portal

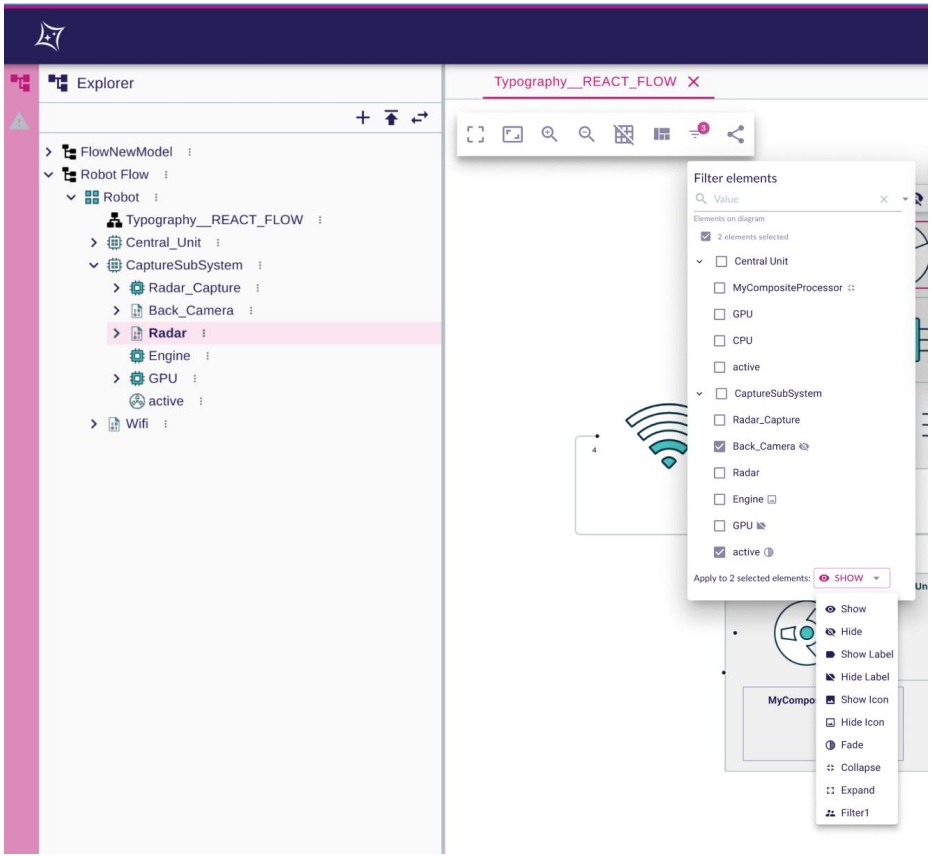


Sirius Web

Sirius

OBEO

Show / Hide improvements

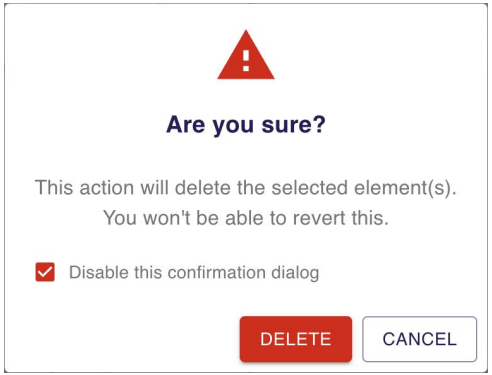


Sirius Web

Sirius

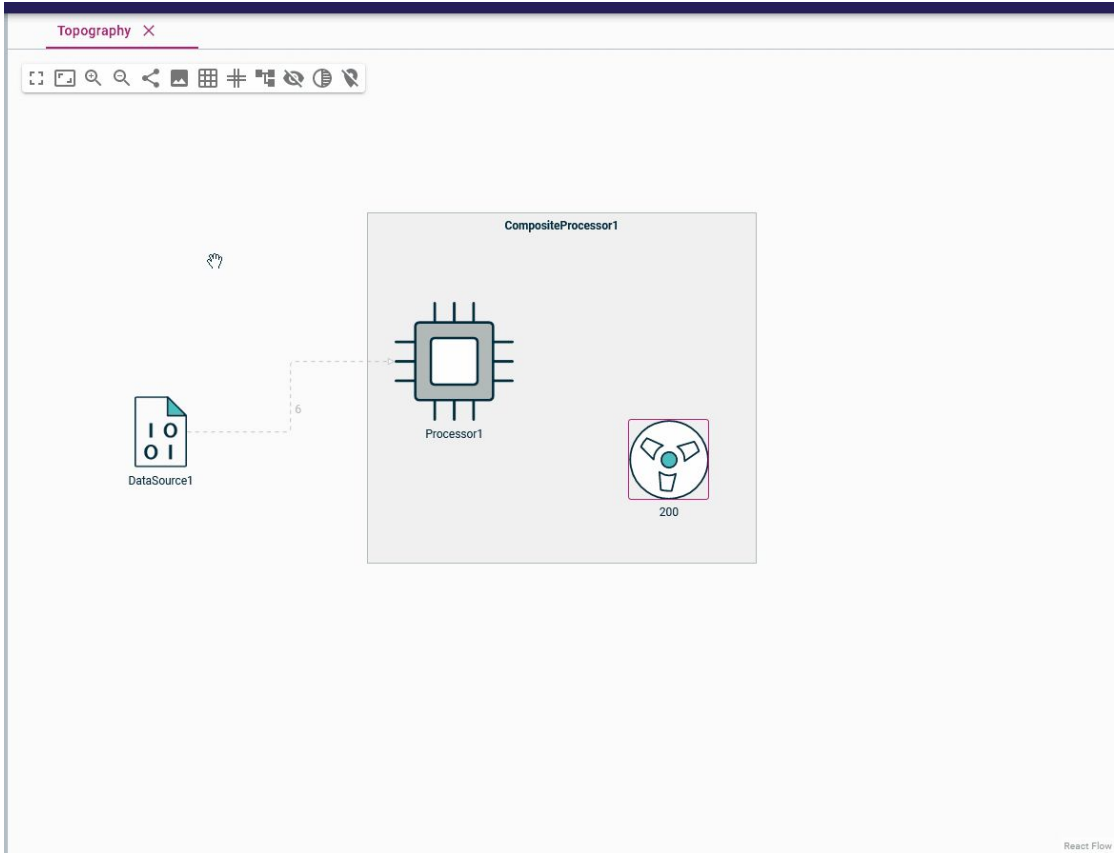
OBEO

Deletion confirmation



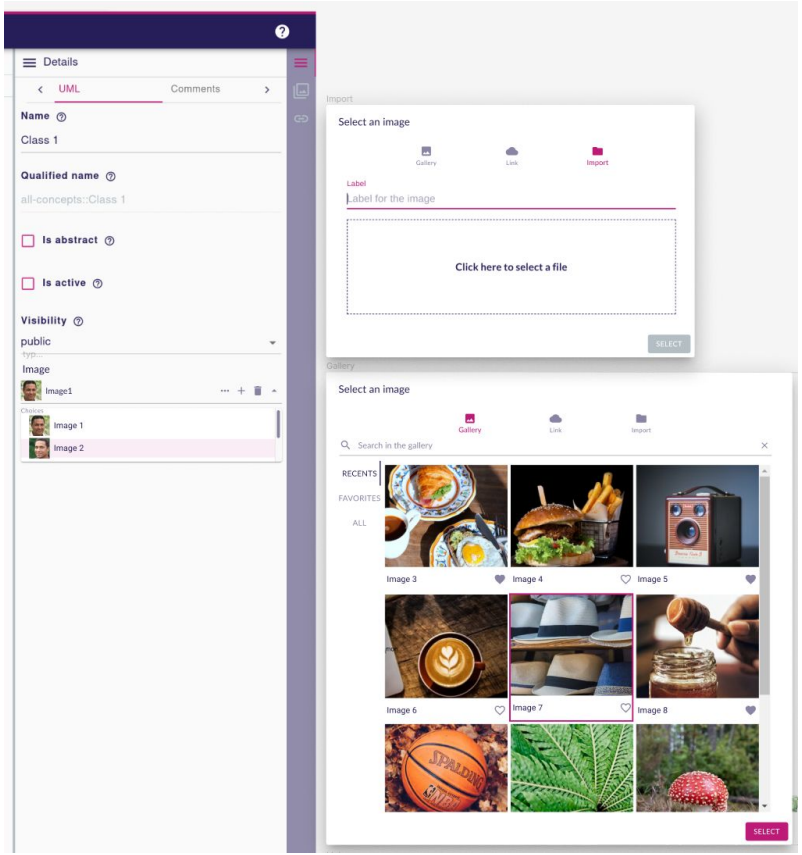
Sirius Web

Helper lines



Sirius Web
Sirius
OBEO

Image Picker

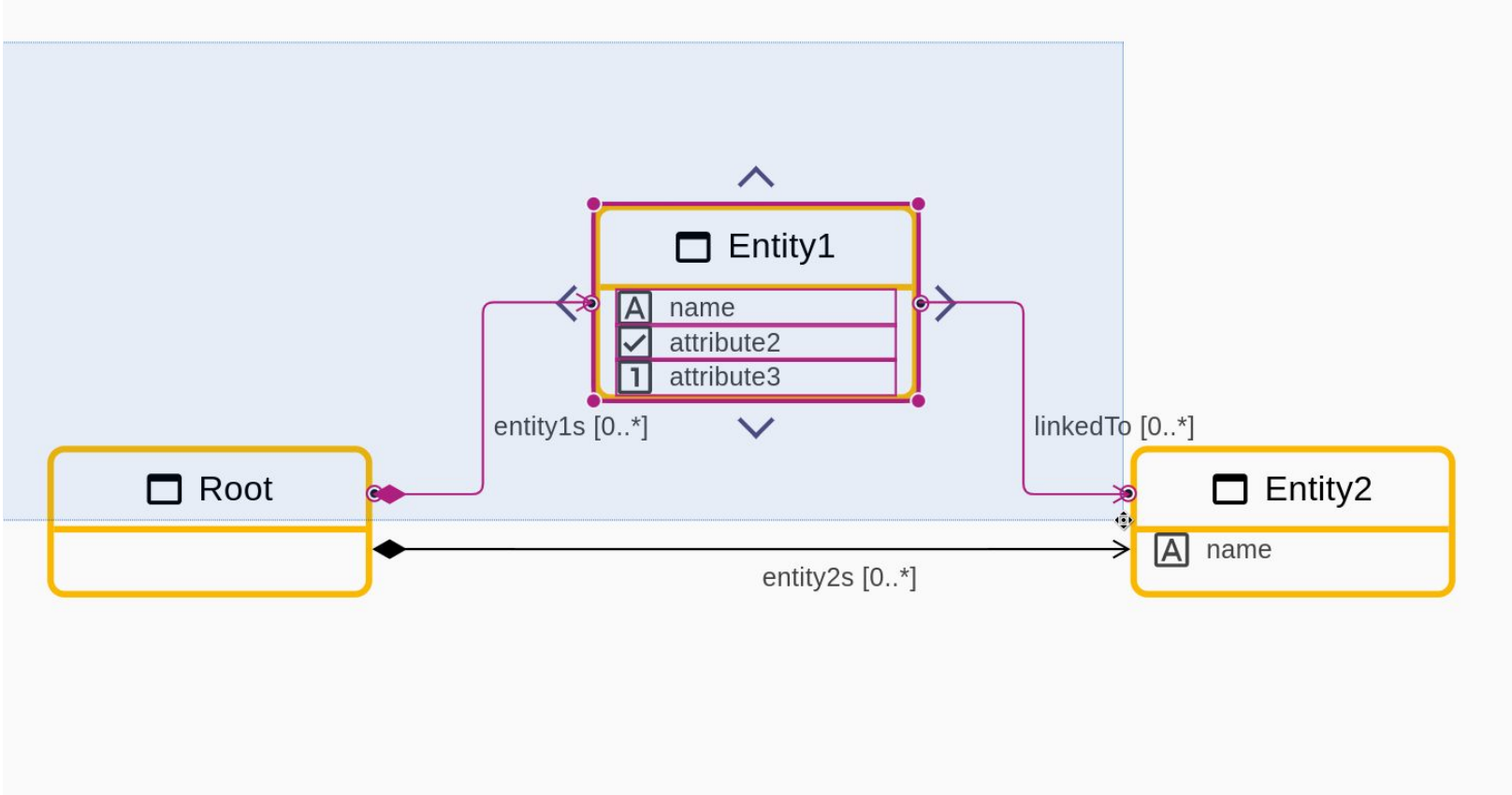


Sirius Web

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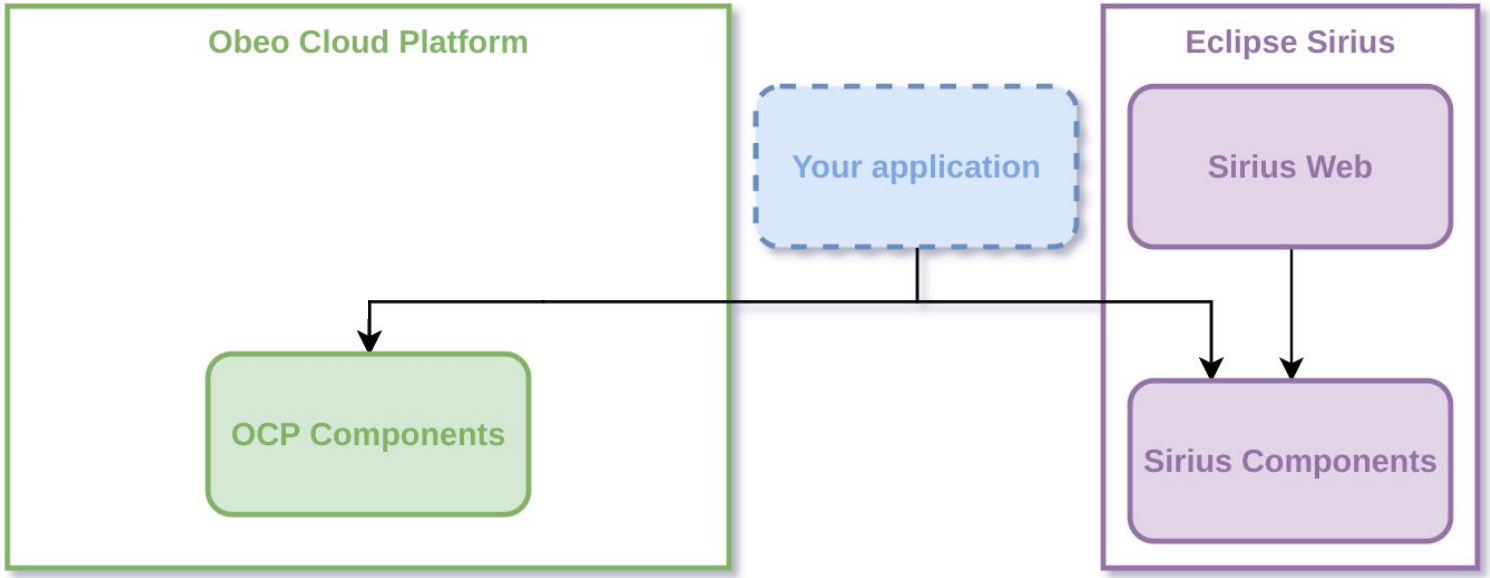
Multi selection tool



Sirius Web
Sirius
OBEO

Extensibility

Transform Sirius Web into an extensible platform



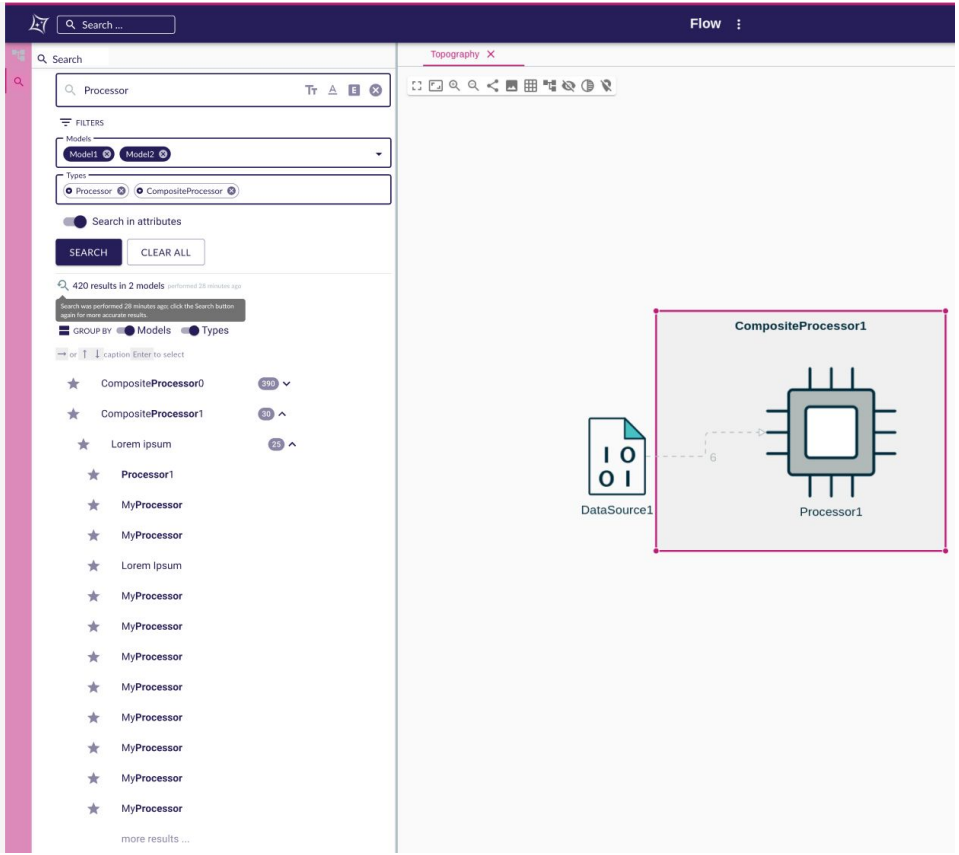
Next

2024.7

2024.9

2024.11

Search

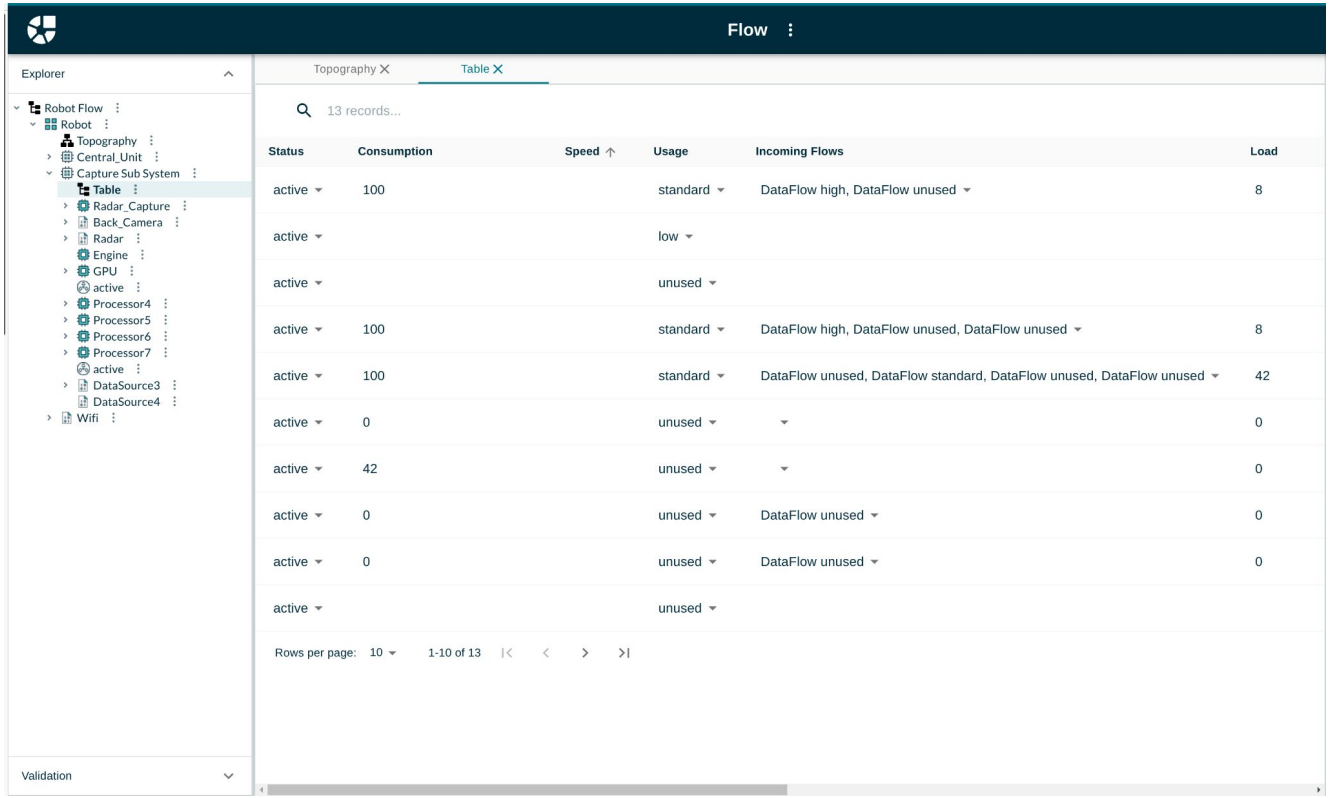


Sirius Web

Sirius

OBEO

Tables

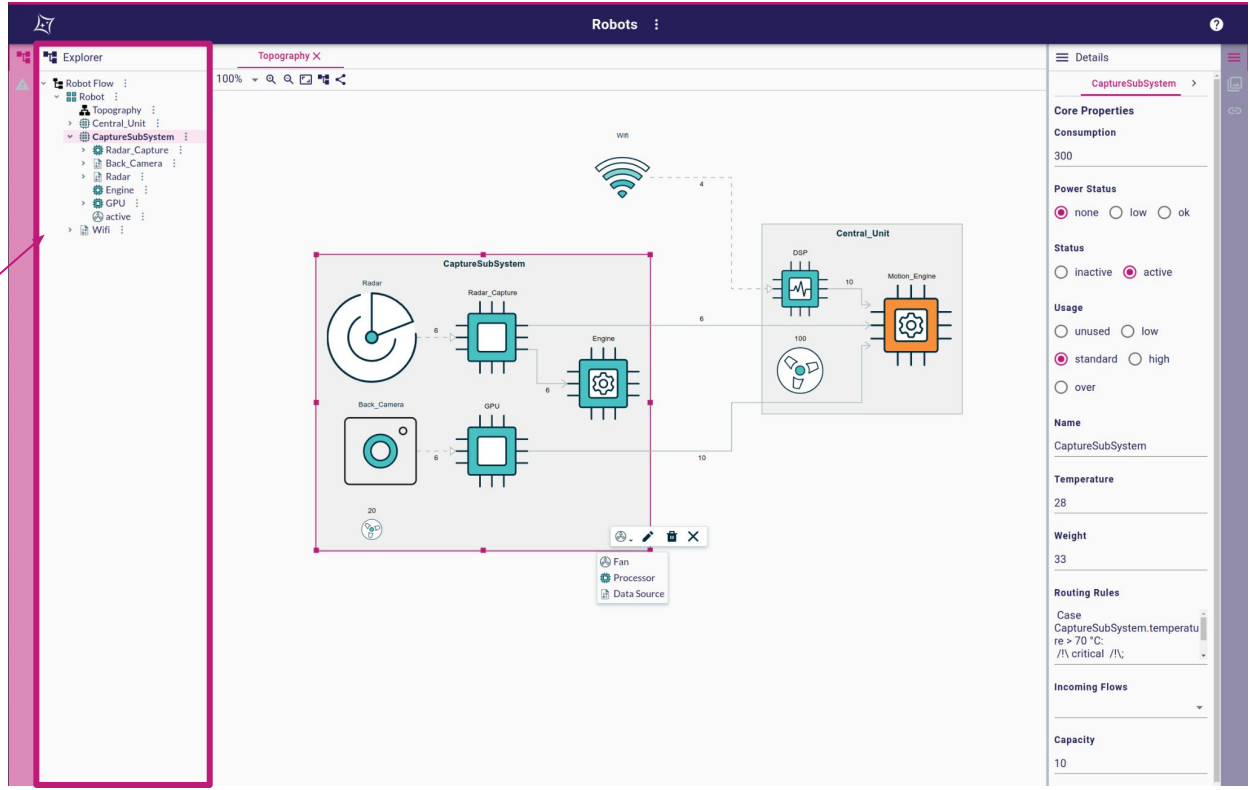


Sirius Web

Sirius

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Trees



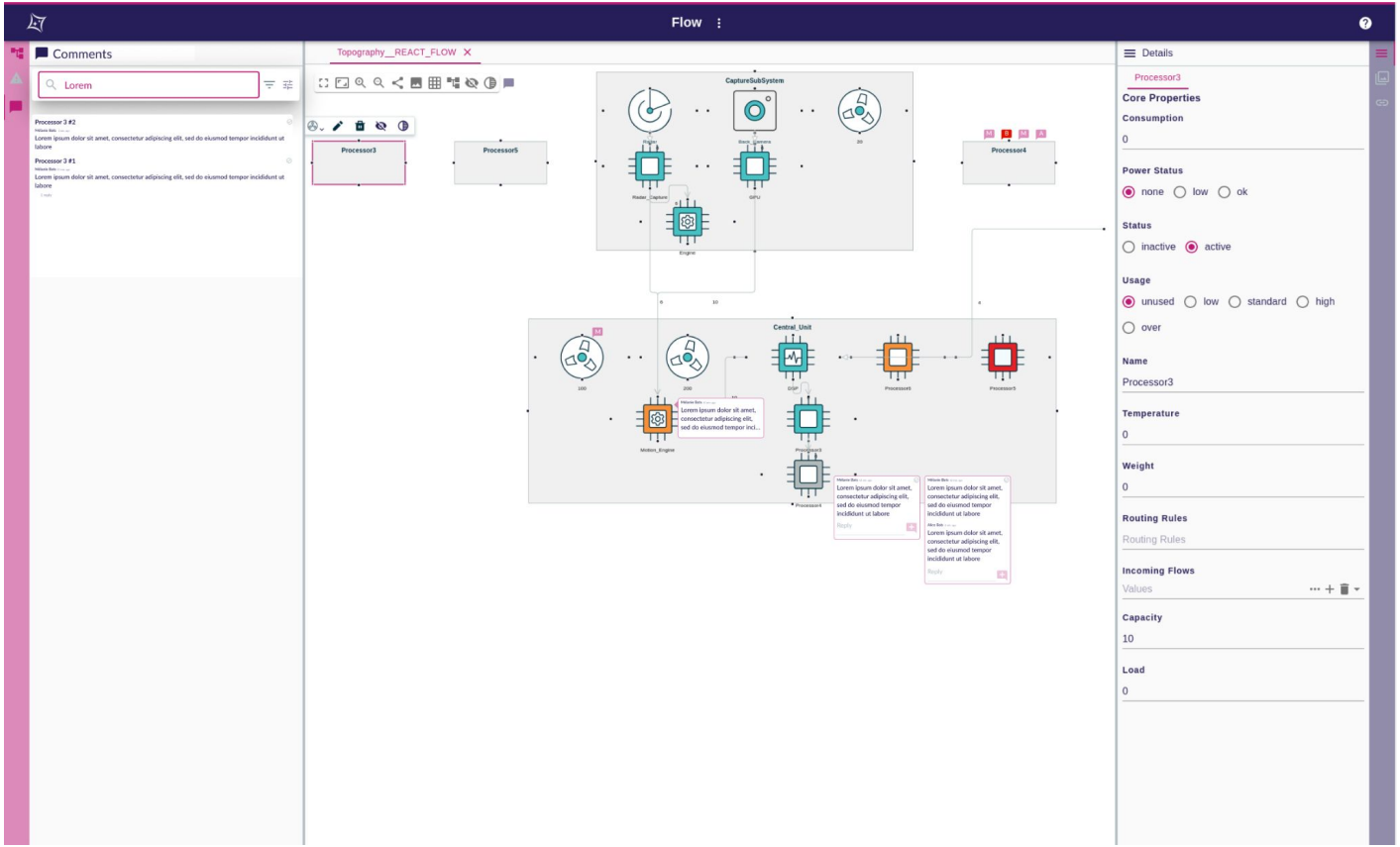
Tree representation

Sirius Web

Sirius

OBEO

Comment



OCP

Sirius

OBEO

And more...

- **Sirius Desktop** : Eclipse SimRel 2024.3, 2024.5, ...
- **Sirius Web** : Undo/Redo, Copy/Paste, Textual editor...
- **OCP** : History, Change management...

Depends on what

Community :

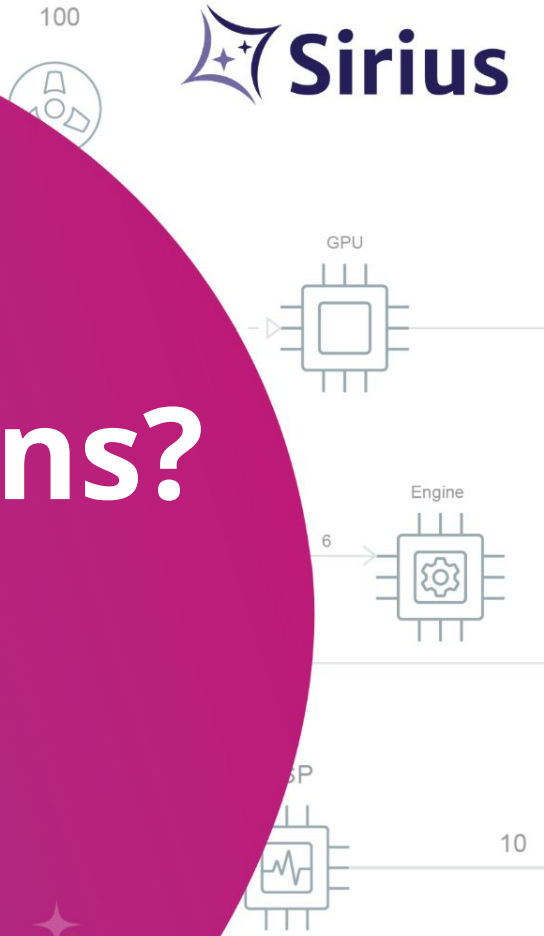
is **interested in**,

contributes,

is **sponsoring**!

WEBINAR

Sirius



Thanks! Questions?

melanie.bats@obeosoft.com

OBEO