Your Cloud Based Modeling Workbench in 15 minutes with Eclipse Sirius
ECLIPSE SIRIUS

An Eclipse project to easily create your own Graphical Modeling Workbench
Sirius is Alive!

PART OF THE RELEASE TRAIN
Two major releases per year
In June and October

A release every 2 MONTHS

MORE THAN 10
Committers actively working

eclipsecon Europe 2019
Principles of Sirius

Metamodel
Principles of Sirius

Metamodel + Sirius configuration
Principles of Sirius

Metamodel + Sirius configuration = Graphical modeler
Principles of Sirius

Metamodel + Sirius configuration = Graphical modeler

Sirius specifier

Sirius specifier
Principles of Sirius

Metamodel + Sirius configuration = Graphical modeler

Sirius specifier  Workbench end users
Sirius as an RCP application DEMO
Use the specification editor...
Use the specification editor...

Sirius configuration
... to specify the end user graphical workbench

Sirius configuration
... to specify the end user graphical workbench
Workbench structure

Sirius configuration

Defines the complete structure of the modeling workbench
Workbench structure
Viewpoint

Provides **viewpoints** adapted to the user’s role or activity
Viewpoint

Sirius configuration

End user workbench
Representation

Each viewpoint corresponds to a set of representations.
Representation

Sirius configuration

End user workbench
Representation
Layers

Each diagram provides default and optional layers
Layers

Sirius configuration

End user workbench
Mappings

Each layer defines mappings: node, container and edge.
Mappings

Sirius configuration

End user workbench
Mappings
Mappings

Sirius configuration

Metamodel
Mappings

Sirius configuration

Metamodel
Mappings
Mappings

Sirius configuration

End user workbench
Mappings

Sirius configuration

End user workbench
Sirius as an RCP application DEMO
Diagram, **Table, Matrix**

and much more..
Sequence diagram
Properties views
Obeo Designer is there for you

COMMUNITY EDITION

All you need to work with Sirius
Obeo Designer is there for you

COMMUNITY EDITION
All you need to work with Sirius

TEAM EDITION
For real time collaborative edition in Eclipse based workbenches
Obeo Designer is there for you

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TEAM EDITION
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CLOUD ★PLATFORM★
Integrated platform to deploy easily to the cloud
How do we configure a Cloud-ready graphical designer with Sirius?
We keep the principles of Sirius

Metamodel + Sirius configuration = Graphical modeler

Sirius specifier

Workbench end users
We keep the principles of Sirius

Metamodel + Sirius configuration = Graphical modeler

Sirius specifier

Workbench end users
We keep the principles of Sirius

Metamodel + Sirius configuration = Graphical modeler

Sirius specifier + Workbench end users
We keep the principles of Sirius

Metamodel + Sirius configuration = Graphical modeler

Sirius specifier

Workbench end users
How it works

Obeo Cloud Platform

Backend

Frontend
How it works

Obeo Cloud Platform

Backend

Frontend

React Components
How it works

Obeo Cloud Platform

Backend

Frontend

React Components

Pages
Forms
Buttons
...

eclipsecon Europe 2019
How it works

Backend

Obeo Cloud Platform

Frontend

React Components

<table>
<thead>
<tr>
<th>Pages</th>
<th>Model explorer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Properties</td>
</tr>
<tr>
<td>Buttons</td>
<td>Diagrams (Sprotty)</td>
</tr>
</tbody>
</table>

...
How it works

Backend

My Spring Application
- Java Services
- My EMF Ecore
- My EMF Edit
- odesign

Obeo Cloud Platform

Frontend

React Components
- Pages
- Forms
- Buttons
- Model explorer
- Properties
- Diagrams (Sprotty)
- ...
How it works

Backend

- Core
  - Sirius interpreter
  - Components
  - Diagrams / Layout (ELK)
  - EMF Json
  - PostgreSQL

- My Spring Application
  - Java Services
  - My EMF Ecore
  - My EMF Edit
  - odesign

Frontend

- React Components
  - Pages
  - Forms
  - Buttons
  - Model explorer
  - Properties
  - Diagrams (Sprotty)
  - ...
Practical exercise

STEP 1
Specify a classical odesign

STEP 2
Configure the web application

STEP 3
Run the server
Sirius as a web application DEMO
<table>
<thead>
<tr>
<th>Features</th>
<th>Backlog</th>
<th>Status</th>
<th>Next</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRUD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic set of properties</td>
<td>WIP</td>
<td></td>
<td>Direct Edit</td>
</tr>
<tr>
<td>Upload / Download</td>
<td></td>
<td></td>
<td>Copy/Paste</td>
</tr>
<tr>
<td>Model Explorer</td>
<td></td>
<td></td>
<td>Complete set of widgets</td>
</tr>
<tr>
<td>Tools</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undo/Redo</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Representations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diagrams (Node, Container, Edge, Cond. Style, SVG, Auto layout...)</td>
<td>WIP</td>
<td></td>
<td>Table, Tree, Dashboard</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Text Editor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Better auto layout...</td>
</tr>
<tr>
<td>Collaboration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic backend</td>
<td></td>
<td></td>
<td>One click model share</td>
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<tr>
<td></td>
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<td></td>
<td>Historic</td>
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<td></td>
<td></td>
<td>Review system</td>
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<tr>
<td>Extensibility</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>EMF.Edit</td>
<td></td>
<td></td>
<td>Spring components</td>
</tr>
<tr>
<td>Java Services</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Obeo Cloud Platform Capabilities</strong></td>
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<tr>
<td>-------------------------------------</td>
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</tr>
</tbody>
</table>
| **Modeling tool made easy**         | Visualize, create and edit on the fly.  
  - Diagrams, Tables, Forms,  
  - Text editor,  
  - Explorer, Dashboard... |
| **Be efficiently consistent & consistently efficient** | Structure your information thanks to models in the cloud.  
  - All your data are always one click away.  
  - Increase consistency with a powerful referential that’s accessible from your browser. |
| **Turn engineering tool creation into a handshake** | Everything is there to build your engineering applications quickly  
  - Dynamic interpretation engine  
  - Map your data to the meaningful representation for your domain  
  - Ease the onboarding by creating a dedicated tooling  
  - Be agile and reactive |
| **Built with all the benefits of any cloud software** | Easy deployment. It’s Cloud, It’s On-Premised.  
  - Never have to save files again with auto-save  
  - Goodbye export, share models with a live link  
  - Worry-free editing & collaboration with a version control  
  - Control user permissions, manage who can view, edit and contribute |
Would like to try?
Contact me!

We are looking for beta testers. You already use Eclipse Sirius? You are interested in migrating to a web application, subscribe to:

Beta testing team
We are working on both sides...
Optional table header

<table>
<thead>
<tr>
<th>Name</th>
<th>Father</th>
<th>Mother</th>
<th>Children</th>
<th>Cousins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul</td>
<td>Joe</td>
<td>Jane</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Mary</td>
<td>Dave</td>
<td>Linda</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Mike</td>
<td>Bob</td>
<td>Lily</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>John</td>
<td>Bill</td>
<td>Sally</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Adam</td>
<td>Adam</td>
<td>Olivia</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sarah</td>
<td>Adam</td>
<td>Olivia</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Kate</td>
<td>Adam</td>
<td>Olivia</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Advanced**

- Initial Master Column Widths: 200
Optional table header
Contribute to Menus
Mode Visibility
Improve ELK integration

Experimental
December - 1st public preview of Obeo Cloud Platform

2 possibilities:
- Sirius RCP
- Obeo Cloud Platform

WE develop what YOU need!

...working on the 2 flavors!
Sirius rocks!

Visual
Diagrams, tables, trees, properties views
Sirius rocks!

Declarative
No code generation

Visual
Diagrams, tables, trees, properties views
Sirius rocks!

Easy
Your Cloud/Desktop modeling workbench in hours

Declarative
No code generation

Visual
Diagrams, tables, trees, properties views
More at EclipseCon EU

11:15 Stepping up Sirius - Tips & Tricks for your visualization journey by Bosch

15:10 A playful introduction to MBSE (interactive talk inside) by Obeo

All along: visit our NO goodies booth!
Stop plastic, save the ocean!

Contribute to the project to clean the oceans:
https://www.theseacleaners.org/en

THE MANTA
A giant of the seas against pollution
THANKS

Does anyone have any questions?

melanie.bats@obeo.fr
EVALUATE THE SESSIONS

Sign in and vote using the conference app or eclipsecon.org

-1 0 +1