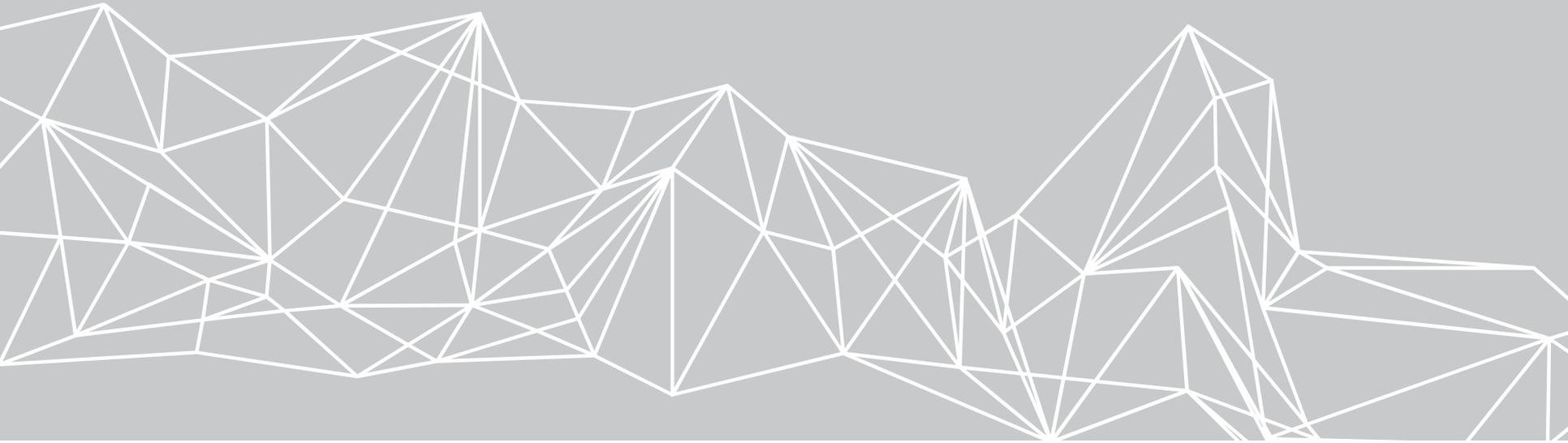


A SIRIUS EDITOR TO DEFINE SIRIUS EDITORS AKA INCEPTION OF A SIRIUS DESIGNER



Max Bureck, 02. November 2015



A SIRIUS EDITOR TO DEFINE SIRIUS EDITORS

Who We Are

- Institute: Fraunhofer FOKUS
(For Open Communication Systems)
- Department: System Quality Center
 - Modeling
 - Application Integration
 - Testing, Model Driven Testing
 - Formal Verification
 - Automotive (AUTOSAR, Simulation)
 - and much more ...

Attention

Mind-Bender Ahead

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Ready?



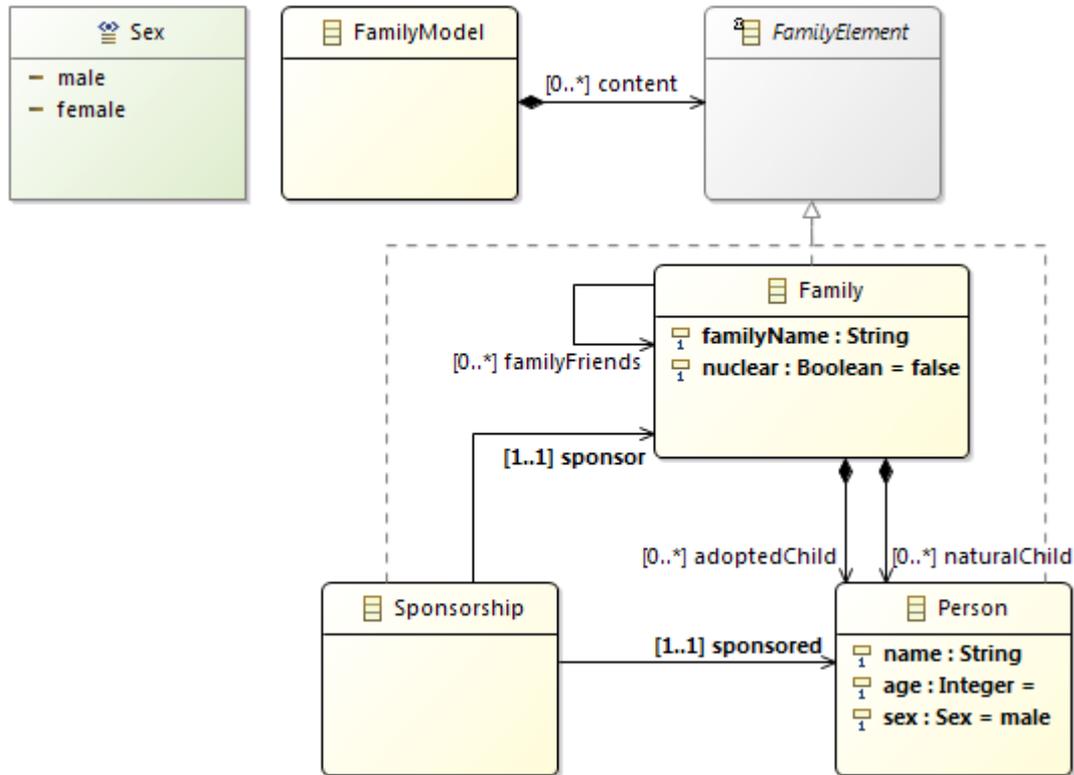
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Go!



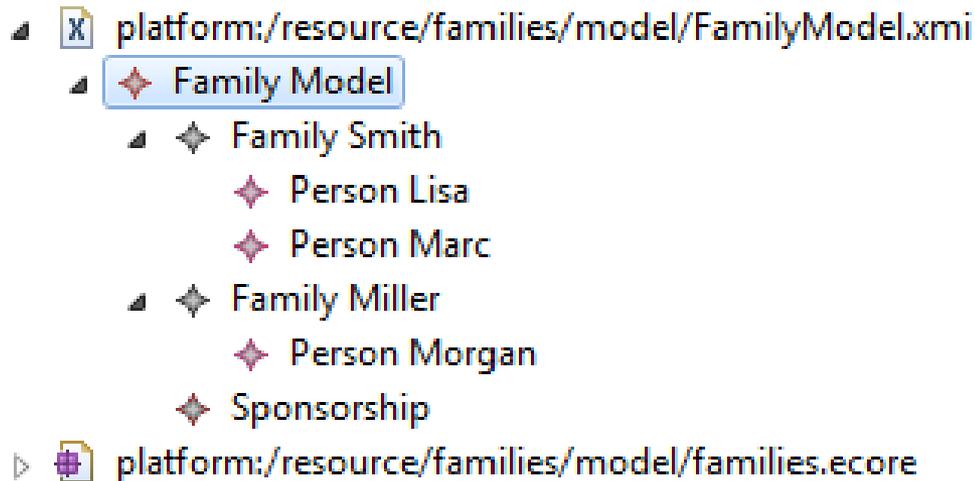
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Sample Ecore Meta-Model



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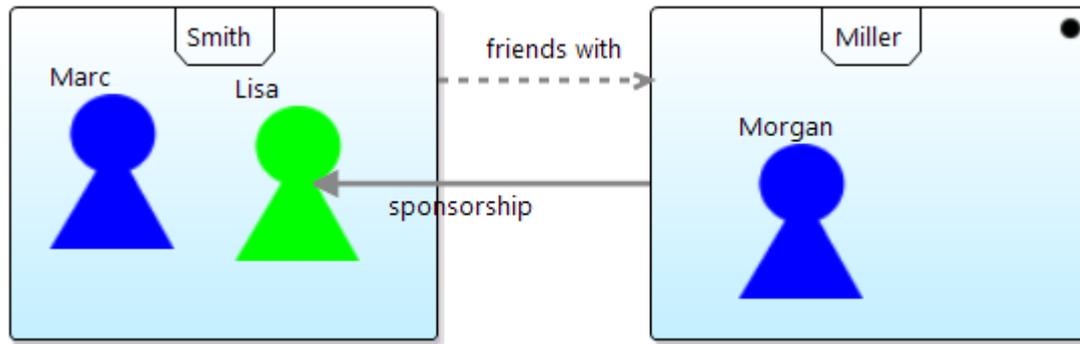
Instance of Meta-Model in Generic Editor



- Next step: own editor
- Several possibilities
 - Textual
 - Form based
 - Graphical designer
- Sirius is great choice for defining graphical designers
 - Easy to use
 - Highly productive

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Editing Example Model in the Defined Sirius Editor



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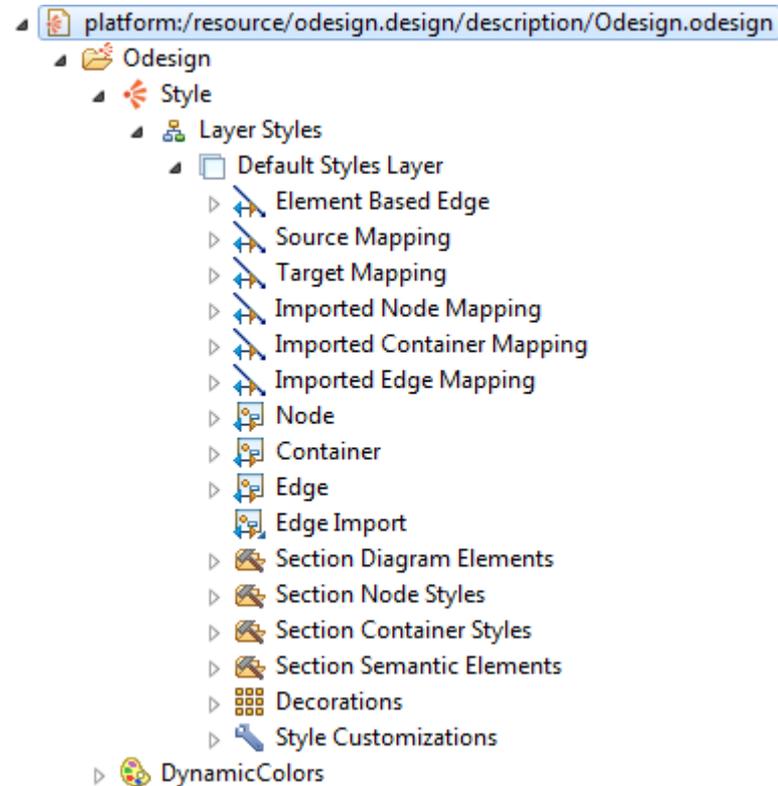
Now: How About Having a Graphical Editor for Odesign Models

- Sirius designers are defined in odesign models
- Sirius provides a technology to define graphical designers for models
- ...
- Why not create a Sirius editor to edit odesign models in a graphical way?

- Advantages:
 - Static styles of diagram elements can be seen directly when modeling the designer
 - No model instance has to be opened to see the styles in the resulting editor
 - Easier to see which edges connect which elements

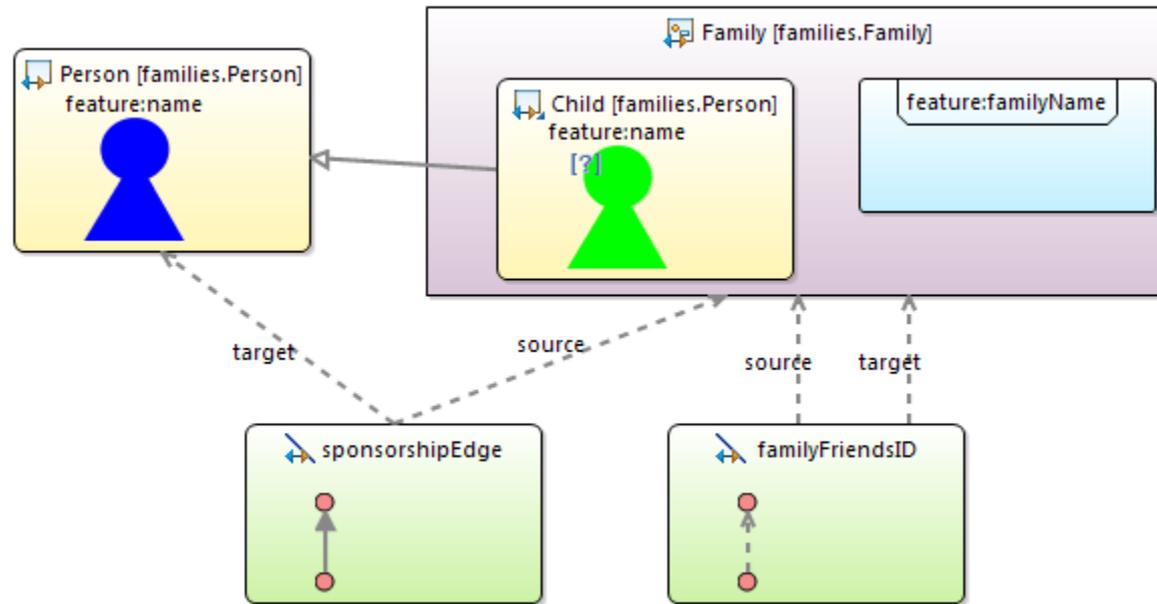
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Odesing.odesing Model Describing a Graphical Odesign Designer



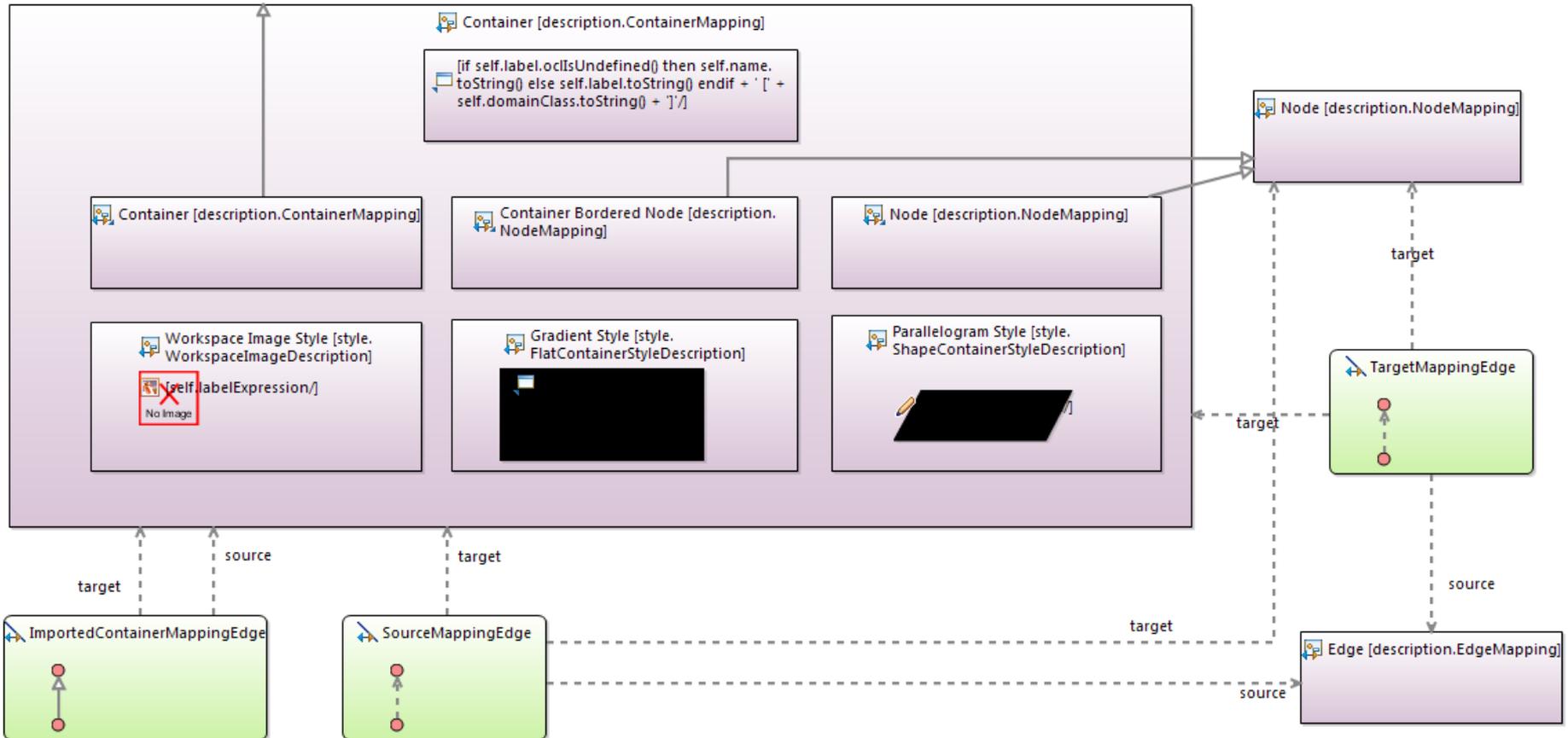
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Opening the Family Designer With the Odesign Designer



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Opening the Odesing.odesign Model With the Odesign Designer Itself



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The screenshot displays the Sirius Odesign editor interface. The main workspace shows a metamodel diagram with several classes and relationships:

- EC EClass [core EClass]**: A central class containing several nodes: **EC EAttribute [core EAttribute]**, **Operation [core EOperation]**, two **feature name** nodes, and **EC ETypeParameter [core ETypeParameter]**.
- EC EAttribute [core EAttribute]**: Contains a **service-render** node.
- Operation [core EOperation]**: Contains a **service-render** node.
- EC ETypeParameter [core ETypeParameter]**: Contains a **feature** node.
- Bi-directional EC EReference**: A relationship class with a **source** and **target** property.
- EC ESupertypes**: A relationship class with a **source** and **target** property.
- EC EReference**: A relationship class with a **source** and **target** property.

Relationships are shown with dashed lines and labels: **source** and **target** for the Bi-directional EC EReference, EC ESupertypes, and EC EReference relationships.

Below the diagram, a tweet by Cédric Brun (@bruncedric) is visible, dated 3. Sep. The tweet text is: "Trying Odesign-designer on Ecore.odesign. So meta !". The tweet includes a link to github.com/Boereck/odesig... and shows 2 replies and 1 star.

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Contributions Welcome!

- Hosted on Github (EPL License)
<https://github.com/Boereck/odesign-designer>
- Some Contribution Topics
 - Fixing saving in Designer (Obeo Folks?)
 - Properties View (EEF Someone?)
 - Conditional Edge Styles
 - Viewpoint for mapping diagram elements to meta-model elements
 - Why are there warnings on some expressions?
 - E.g. feature:subContainerMappings

CONTACT

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