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

Max Bureck, 02. November 2015

making cities smart

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 …

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Attention

Mind-Bender Ahead

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Ready?

source: https://www.warnerbros.co.uk/movies/inception

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Go!

source: http://knowyourmeme.com/memes/strutting-leo

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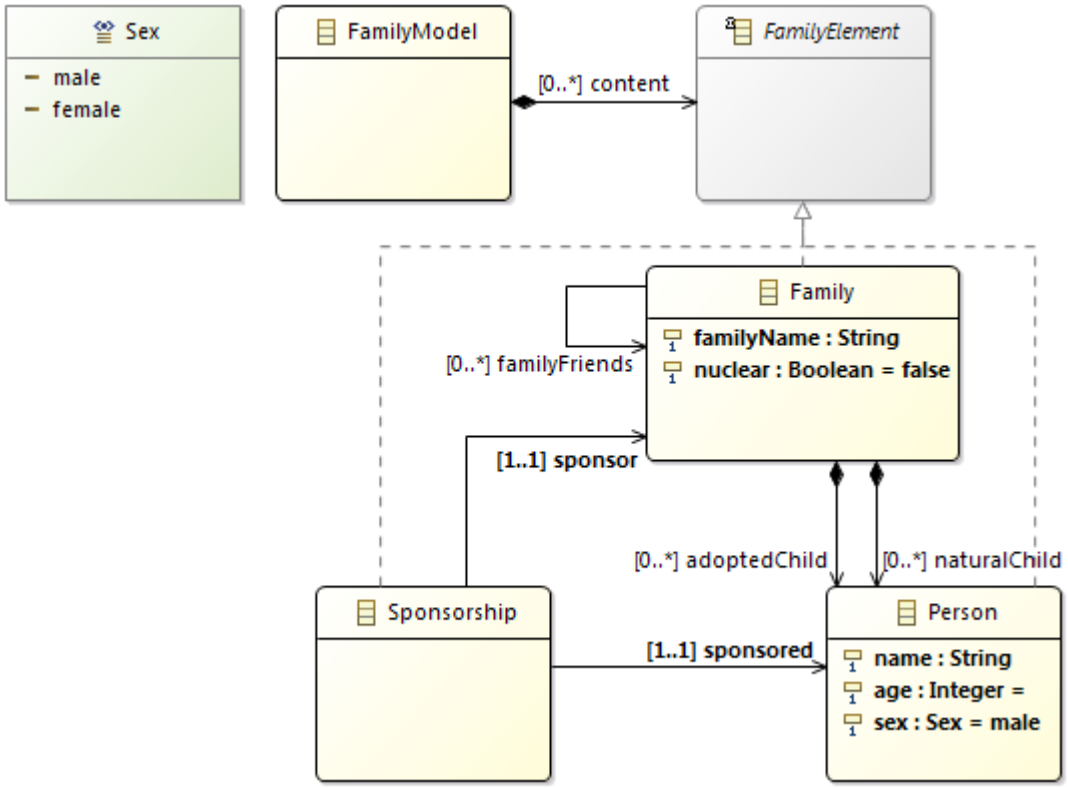
Sample Ecore Meta-Model



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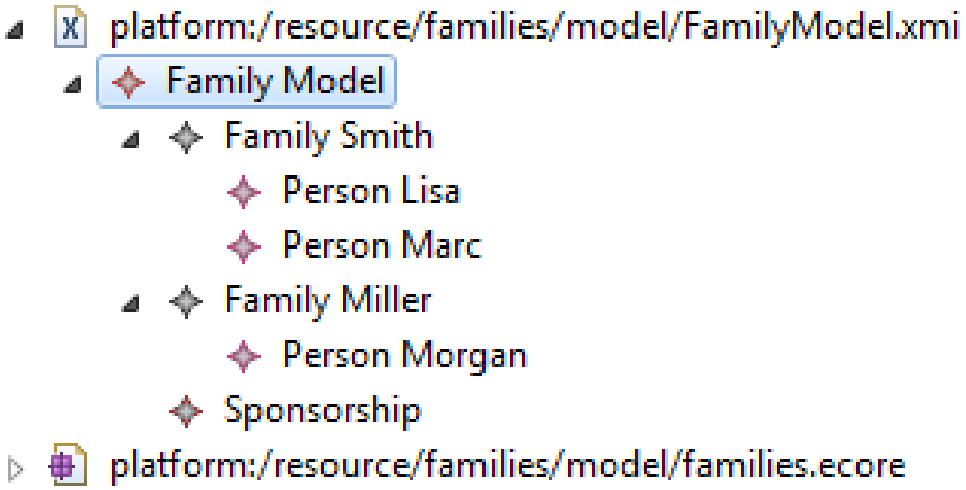
Instance of Meta-Model in Generic Editor



- 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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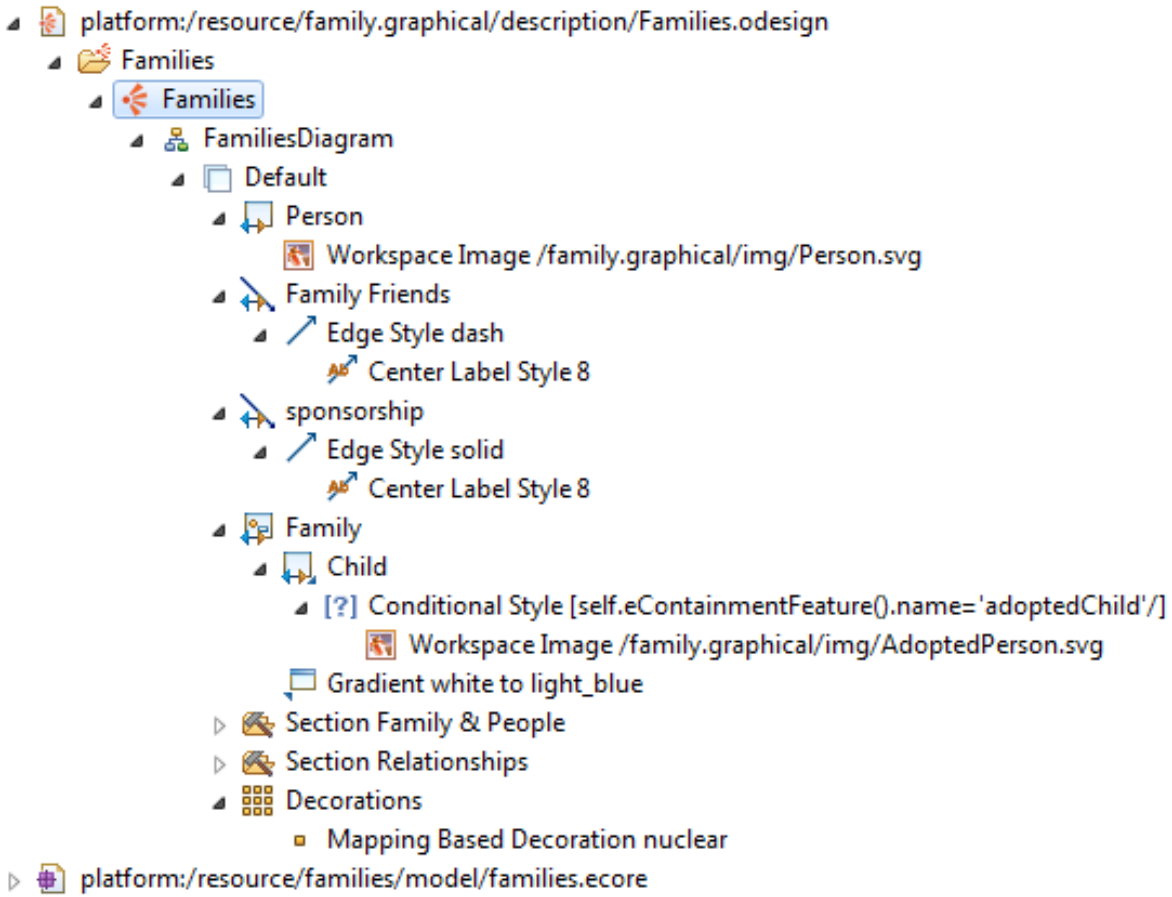
Example of Editor Definition via Sirius Odesign Model



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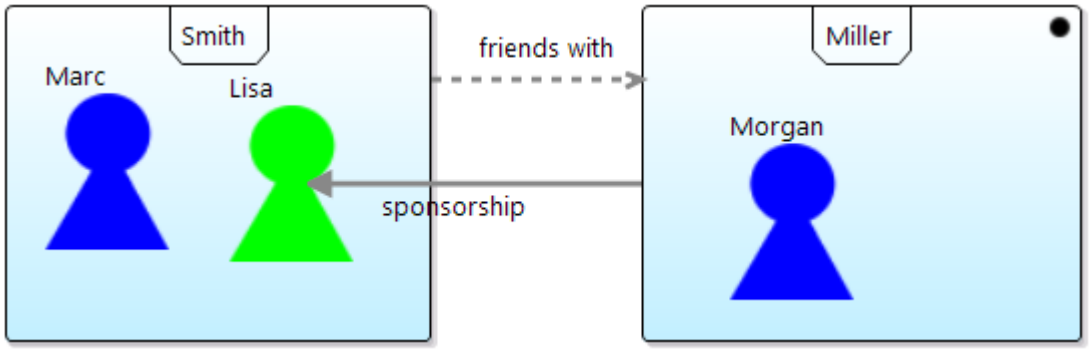
Editing Example Model in the Defined Sirius Editor



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Now: How About Having a Graphical Editor for Odesingn 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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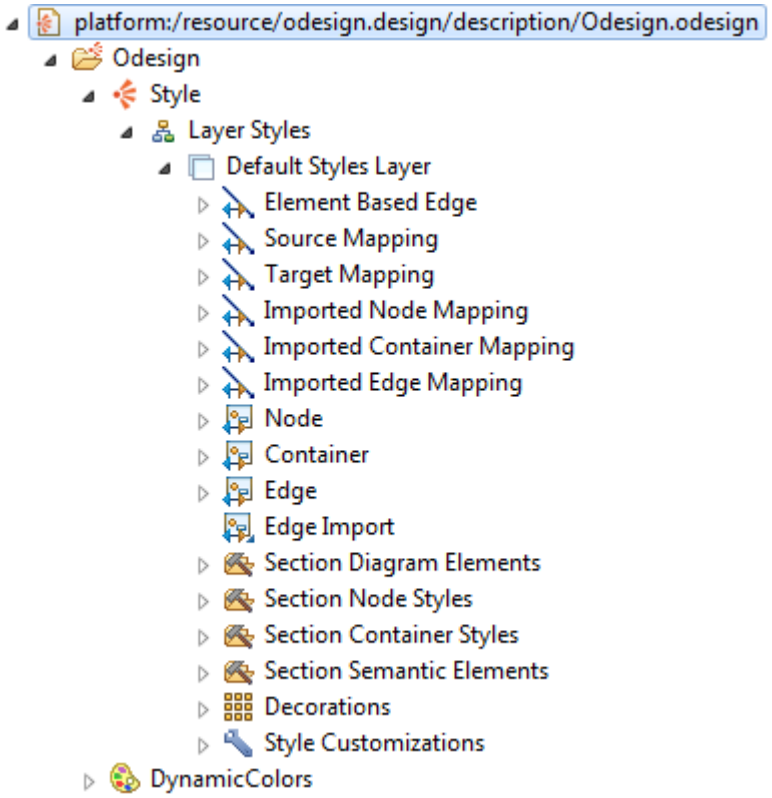
Odesing.odesing Model Describing a Graphical Odesign Designer



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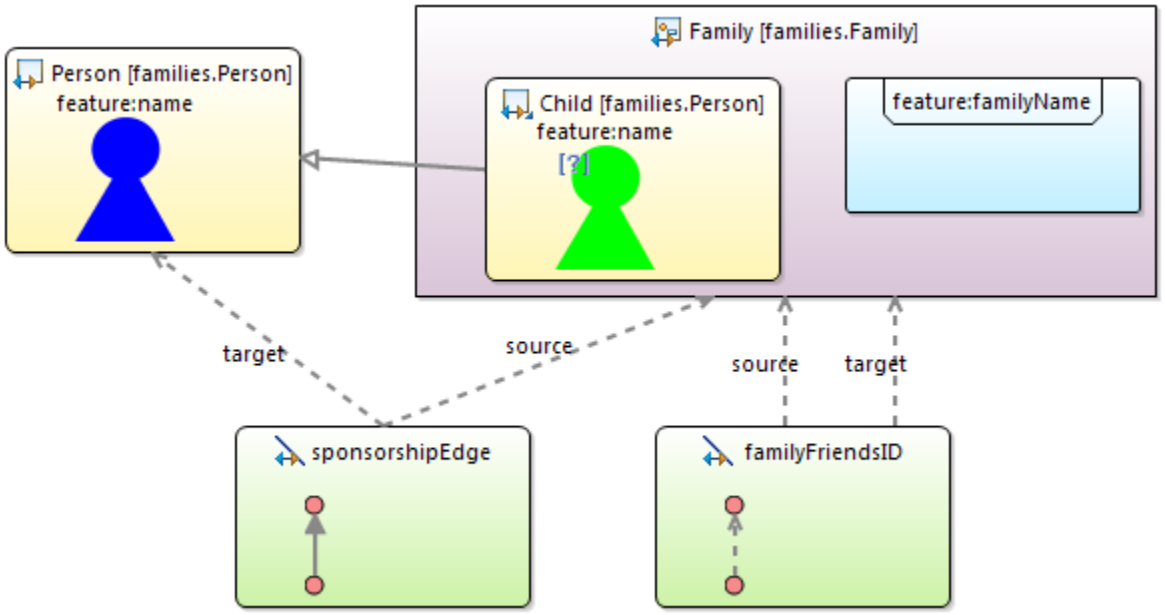
Opening the Family Designer With the Odesign Designer



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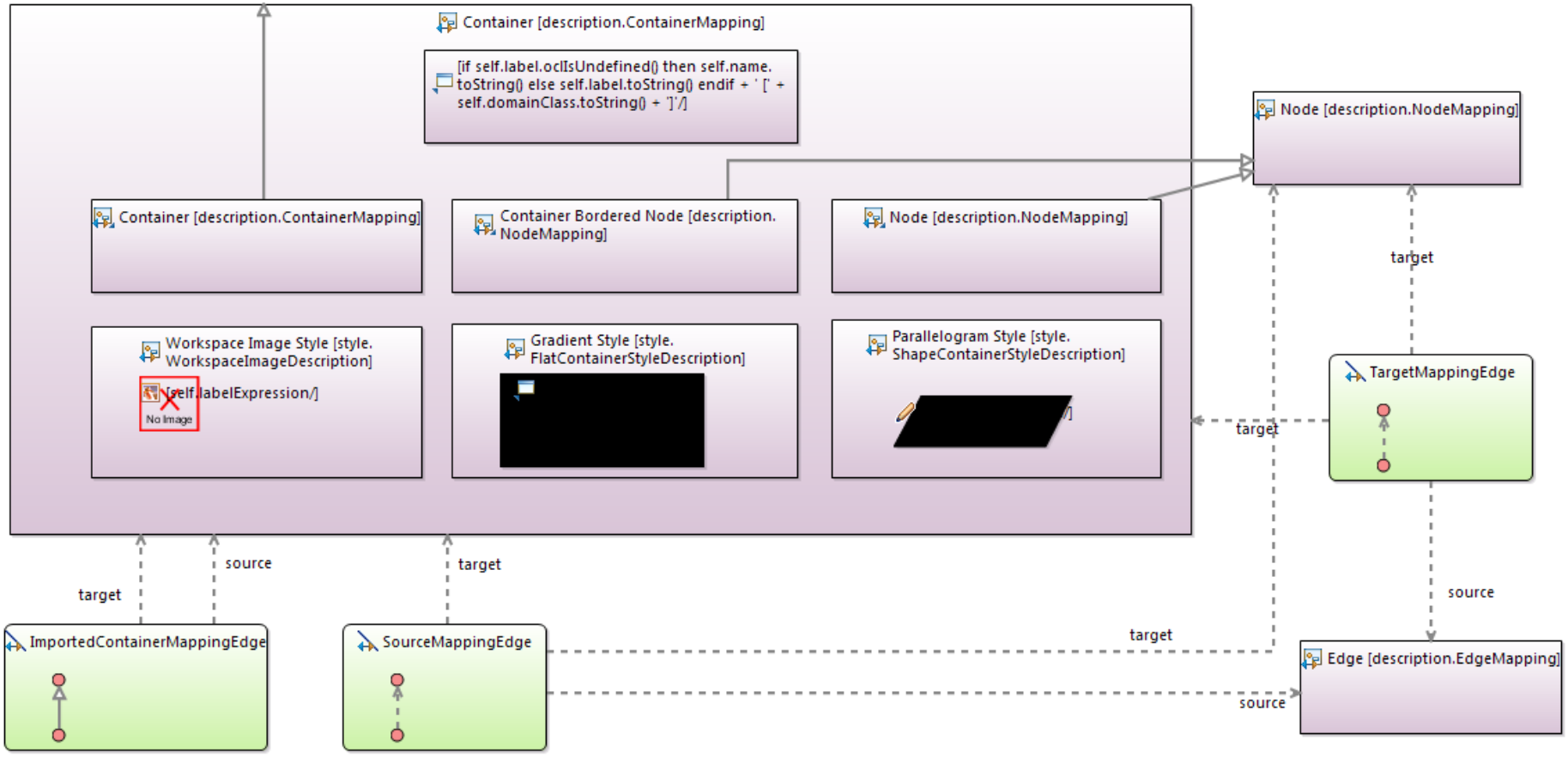
Opening the Odesing.odesign Model With the Odesign Designer Itself



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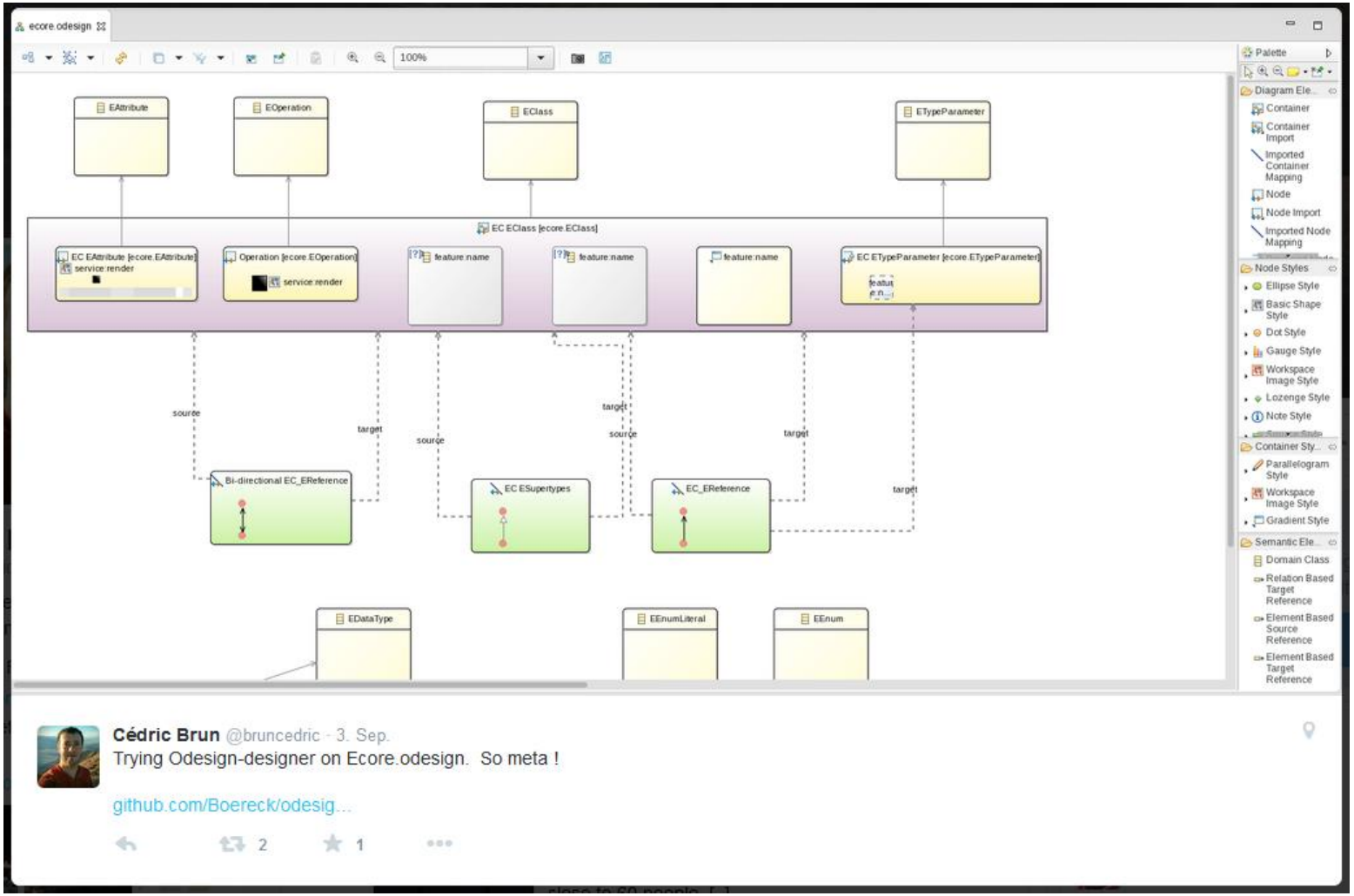

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Contributions Welcome!

- 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

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CONTACT

Fraunhofer FOKUS
Kaiserin-Augusta-Allee 31
10589 Berlin, Germany
www.fokus.fraunhofer.de

Max Bureck
Senior Researcher
max.bureck@fokus.fraunhofer.de
Phone +49 (0)30 3463-7321

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