Papyrus Information Modeling
Demo of Pre-release Beta Build

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Agenda

- Context
- Work done so far
- Demo of the current state
- Next steps
- Your feedback
Context

● **Objective: Information Modeling product**
  ○ Based on the Papyrus platform
  ○ Streamlined for information modeling with UML class diagrams
  ○ Targeted at the ease of use for users new to Papyrus
  ○ Reduce the complexity of the Eclipse UI
  ○ Illustrate the customizability of Papyrus and the Eclipse platform

● **Project details**
  ○ Carried out by CEA and EclipseSource
  ○ Project size is 36 developer days (~ ⅔ spent)
  ○ Project start was mid May
  ○ Release planned for end of June (targeted platform: Neon)

● **Funded by the Papyrus Industrial Consortium**
  [https://www.polarsys.org/ic/papyrus](https://www.polarsys.org/ic/papyrus)
Work done so far

● Identification of the UML subset used for Information Modeling
  ○ Based on sample models we retrieved
● Implementation of the UML subset as a Papyrus viewpoint
  ○ Simplification of the Papyrus UI
  ○ Palette, property views, etc.
● Implementation of the simplification of the Eclipse UI
  ○ Toolbars, wizards, menu actions, etc.
● Implementation of a diagram style
  ○ Optimized for information modeling
● Documentation
  ○ Eclipse Wiki
  ○ Importable example model
  ○ Getting started tutorial based on Eclipse Cheat Sheets
● Technical tasks excluded in the list above
  ○ Setup of continuous integration build and development infrastructure, product configuration and
target platform specification, separation of composable and non-composable plug-ins, code
reviews for best practices, ...
Work done so far

- **Simplification: Papyrus UI**
  - Palette
Work done so far

- Simplification: Papyrus UI
  - New child creation menus
Work done so far

- Simplification: Papyrus UI
  - Modeling assistants and diagram style
Work done so far

- Simplification: Papyrus UI
  - Property views

Before

<table>
<thead>
<tr>
<th>UML</th>
<th>Class1</th>
<th>Name</th>
<th>Class1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualified name</td>
<td>RootElement::Class1</td>
<td>Qualified name</td>
<td></td>
</tr>
<tr>
<td>Is abstract</td>
<td>○ true ○ false</td>
<td>Is active</td>
<td>○ true ○ false</td>
</tr>
<tr>
<td>Is leaf</td>
<td>○ true ○ false</td>
<td>Visibility</td>
<td>public</td>
</tr>
</tbody>
</table>

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</tr>
<tr>
<td>Owned attribute</td>
<td>name : String</td>
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</tr>
</tbody>
</table>
Work done so far

- **Simplification: Eclipse UI**
  - Wizards

**Before**

**After**
Work done so far

- **Simplification: Eclipse UI**
  - **Toolbars**
    - Before
    - After
  - **Perspectives**
    - Before
    - After
Next steps

● Finalize documentation and user guidance
  ○ Getting started tutorial as a browser version
  ○ Coordination with work on general Papyrus docs
  ○ Dissemination on the Papyrus web page

● Address most important open issues
  ○ Filter types to UML subsets when creating types from property view
  ○ Missing Open / Open with menu entries for non-Papyrus files
  ○ … (see bugzilla)

● Get your feedback on requirements and enhancements
  ○ Create a backlog for future development
  ○ Find partners to support us in the future development
    All contributions more than welcome (reqs, testing, funding, etc.)
Feedback

● General feedback

● Diagram types
  ○ Is the identified subset adequate?
  ○ Which other diagram types would you would like to see?

● UML profiles
  ○ Standard UML profiles in the information modeling domain?
  ○ Implement easier way to create and share custom profiles?

● Import and export
  ○ From and to other tools?
  ○ Export of documentation?

● Code generation
  ○ Are there standard code generators you would like to have?
  ○ Implement easier way to create and share custom code generators?
Invitation to Contribute

● **Get Papyrus for Information Modeling**
  o Developer builds (see [wikipage](#))
  o Release coming shortly after Neon release of Eclipse

● **Feedback, requirements, and bugs**
  o Contact us ([planger@eclipsesource.com](mailto:planger@eclipsesource.com); [benoit.maggi@cea.fr](mailto:benoit.maggi@cea.fr))
  o Raise bug reports ([bugzilla](#))
  o Papyrus mailing list ([mdt-papyrus.dev](#))
  o …

● **Fixes and enhancements**
  o Push for review via [gerrit](#)
  o See also contributor guidelines (view [wikipage](#))

● **Funding**
  o Sponsored OS development (maintenance and your features)
  o Custom enhancements on top of Papyrus for Information Modeling