

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 (~ $\frac{2}{3}$ 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>

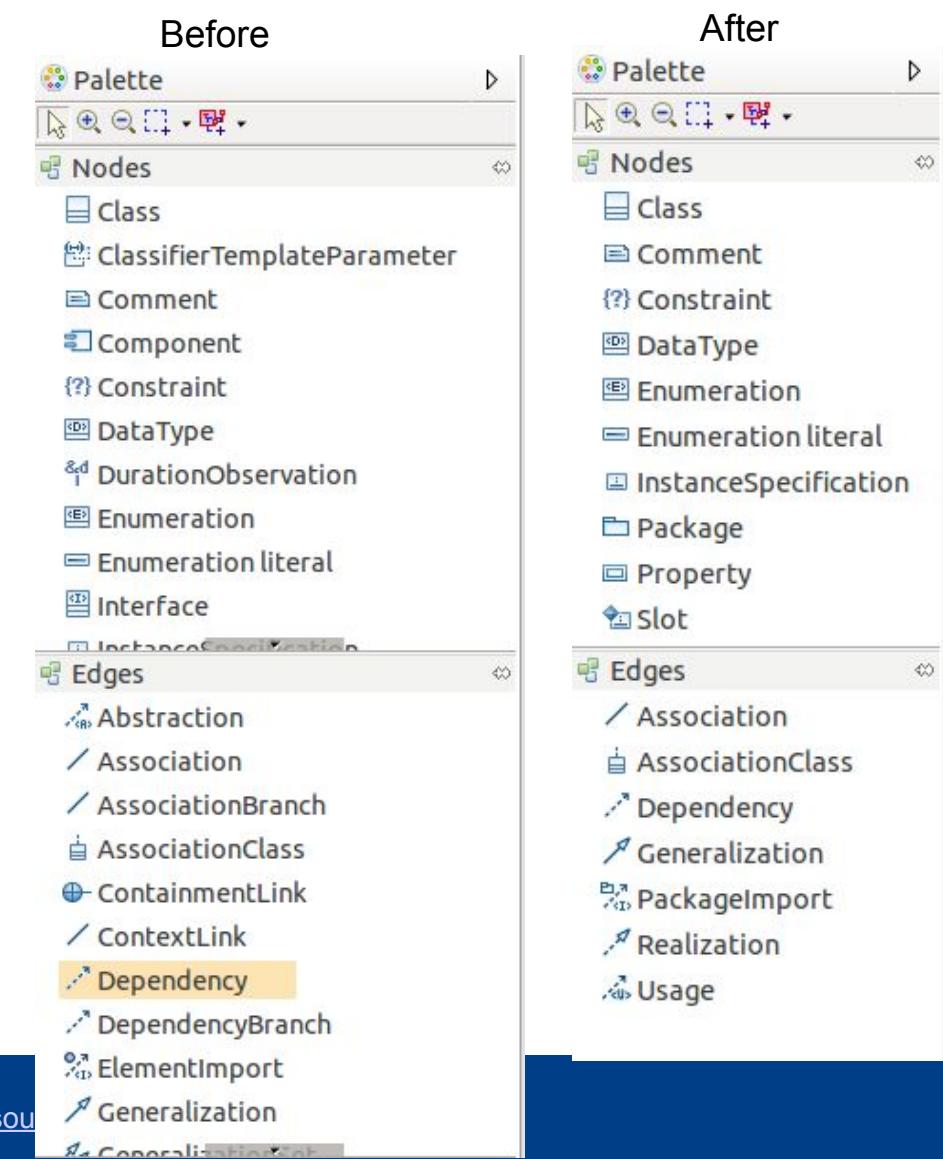


Work done so far

- 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, ...

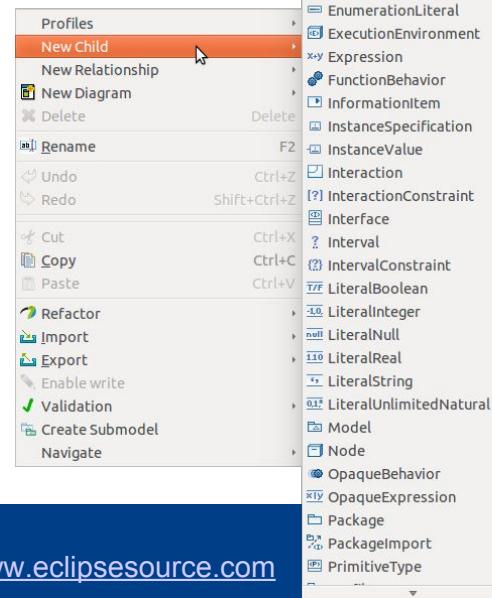
Work done so far

- Simplification: Papyrus UI
 - Palette



Work done so far

- Simplification: Papyrus UI
 - New child creation menus



Before

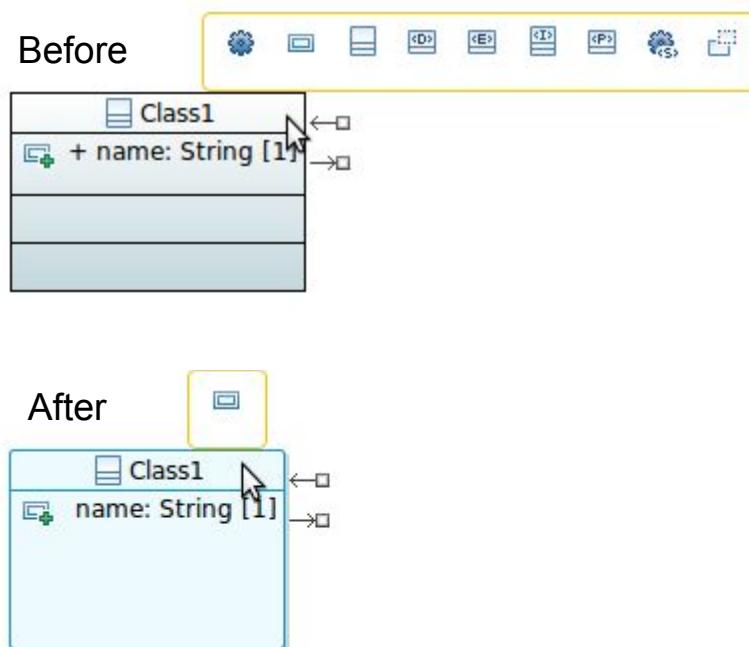
	Activity
Actor	
AnyReceiveEvent	
Artifact	
CallEvent	
ChangeEvent	
Class	
Collaboration	
Comment	
Component	
Constraint	
DataType	
DeploymentSpecification	
Device	
Duration	
DurationConstraint	
DurationInterval	
DurationObservation	
ElementImport	
Enumeration	
EnumerationLiteral	
ExecutionEnvironment	
Expression	
FunctionBehavior	
InformationItem	
InstanceSpecification	
InstanceValue	
Interaction	
InteractionConstraint	
Interface	
Interval	
IntervalConstraint	
LiteralBoolean	
LiteralInteger	
LiteralNull	
LiteralReal	
LiteralString	
LiteralUnlimitedNatural	
Model	
Node	
OpaqueBehavior	
OpaqueExpression	
Package	
PackagelImport	
PrimitiveType	

After

Class
Comment
Constraint
DataType
Enumeration
EnumerationLiteral
InstanceSpecification
Model
Package
PrimitiveType

Work done so far

- Simplification: Papyrus UI
 - Modeling assistants and diagram style



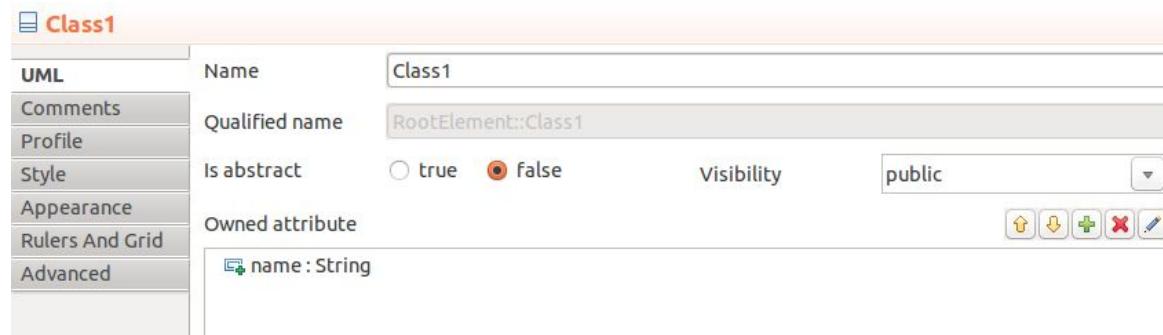
Work done so far

- Simplification: Papyrus UI
 - Property views

Before



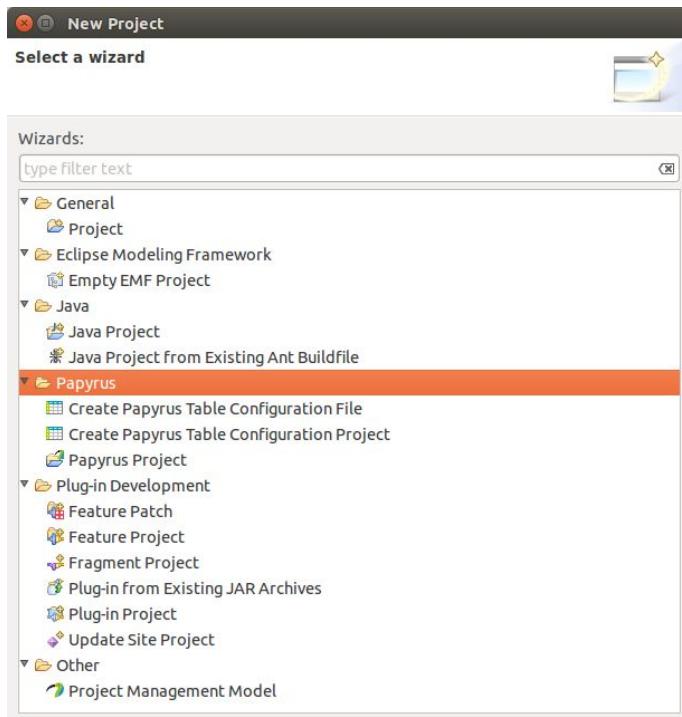
After



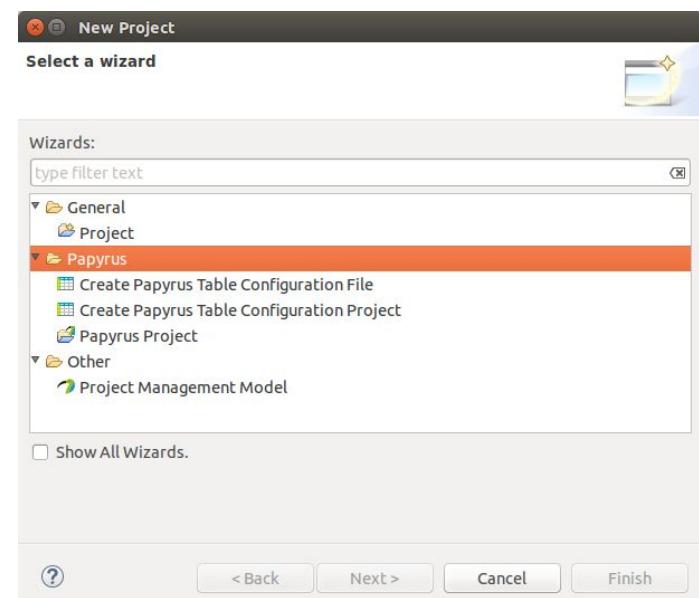
Work done so far

- Simplification: Eclipse UI
 - Wizards

Before



After



Work done so far

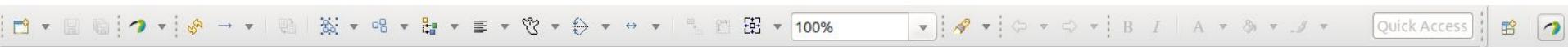
- Simplification: Eclipse UI

- Toolbars

Before

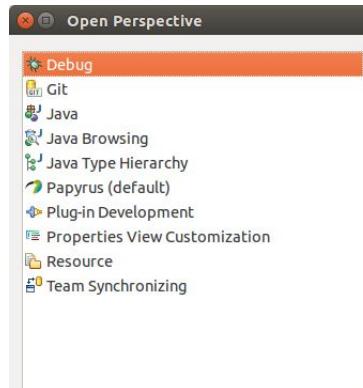


After

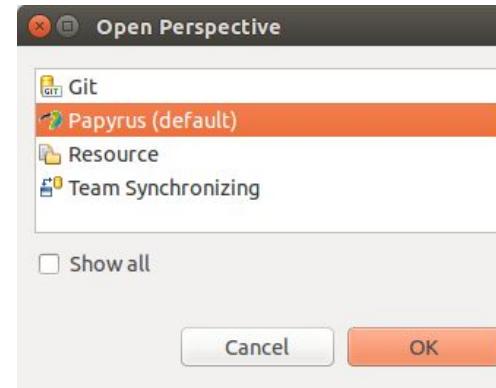


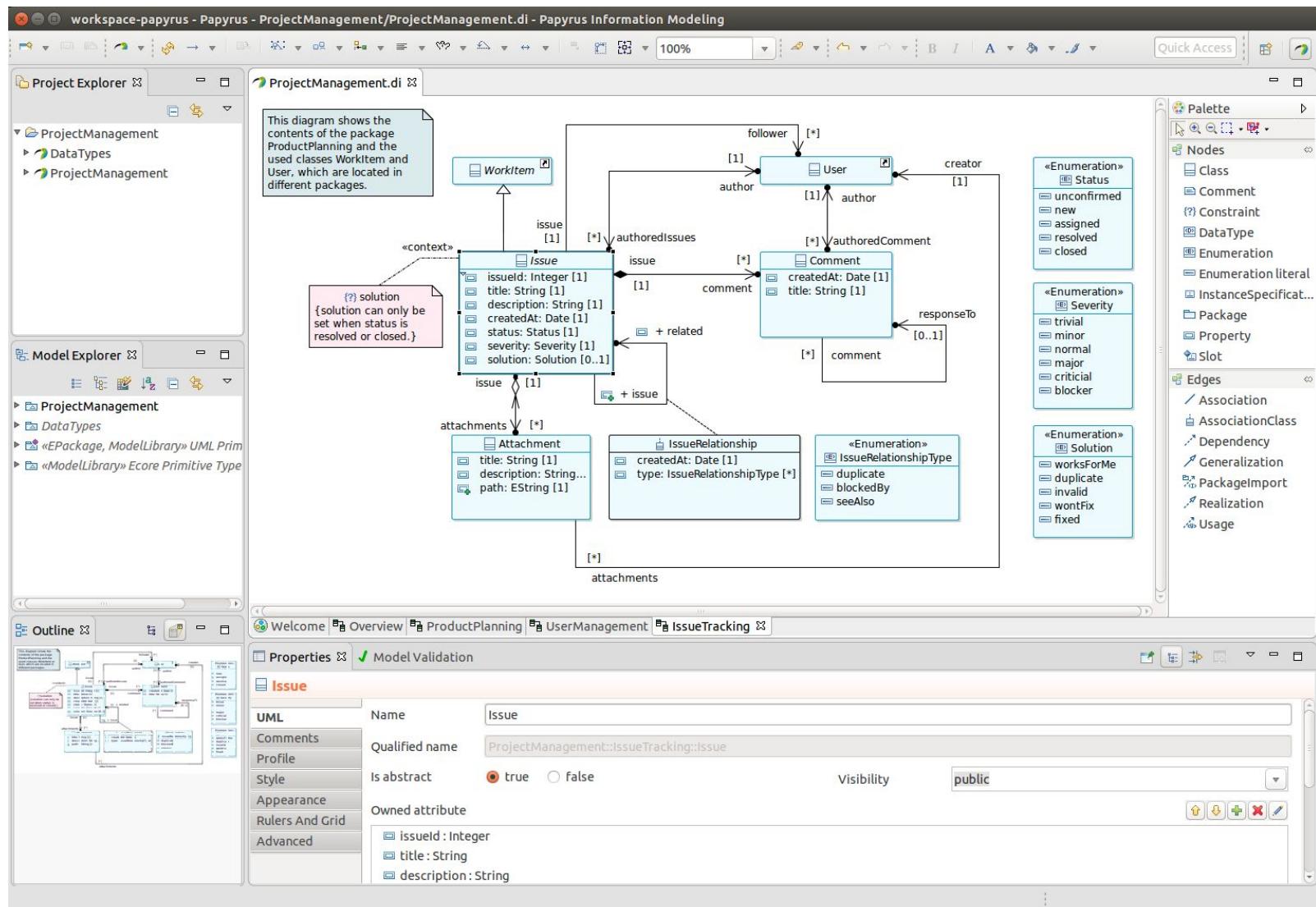
- Perspectives

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 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

License EPL 1.0

- Get Papyrus for Information Modeling
 - Developer builds (see [wikipage](#))
 - Release coming shortly after Neon release of Eclipse
- Feedback, requirements, and bugs
 - Contact us (planger@eclipsesource.com; benoit.maggi@cea.fr)
 - Raise bug reports ([bugzilla](#))
 - Papyrus mailing list (mdt-papyrus.dev)
 - ...
- Fixes and enhancements
 - Push for review via [gerrit](#)
 - See also contributor guidelines (view [wikipage](#))
- Funding
 - Sponsored OS development (maintenance and your features)
 - Custom enhancements on top of Papyrus for Information Modeling