Eclipse Finance Day
Requirements Engineering, Management and Traceability with Eclipse

Jens Trompeter, Member of the board, itemis
Short facts

itemis at a glance

- Founded in 2003
- 150 Employees
- Headquarter in Dortmund (Germany)
- Offices in Germany, France and Switzerland
- Strategic Member of the Eclipse Foundation
Service overview

Enterprise Applications

Embedded Software

Mobile Applications

Application Development

Customer-individual Tools

Eclipse Technologies

Consulting, Coaching, Service u. Support
Requirements Engineering

Challenges

- Often change
- Gap between business and IT
- Large projects
- Traceability / Impact analysis
- Appropriate languages
- Team-work
Requirements Engineering

Critical factors for success

- Focus on business needs
- Understandability / wording
- Reusability
- Traceability
- Flexibility
- Early validation
Object-oriented analysis

- Use Cases
- Activities
- Screens / Screen flow
- Business objects / Entities
- Rules
- Systems / Components
- System architecture
- Interfaces

- Easy to use
- Consistent
- Flexible
- Good tool-integration
- User-specific outputs
YAKINDU Requirements

Report Plugins

Specification Documents
Estimation Tables
Test Plans

Xtext
Xtend
eclipse
BIRT
Business Intelligence and Reporting Tools
YAKINDU Requirements

High-level requirements

Now refine your requirements ...
YAKINDU Requirements

Refine your requirements with use cases

Tracing of requirements
Very efficient editing
Live visualization
YAKINDU Requirements

Combine use cases with entities

Cross-referencing between DSLs
Easy navigation
Rename refactoring
YAKINDU Requirements

User interfaces

Describe pages and dialogs
Refer to screens
Create page flow diagrams

Integrate with:

- balsamiq
- WireframeSketcher
YAKINDU Requirements

Team collaboration

- Standard Version Control Systems
- Split into several files to reduce conflicts
- Easy compare, diff and merge
- Recent changes
- User-specific reports
- Integration with Wikis
Summary

- **Efficiency**
  - Lightweight text-editors
  - Automatic visualization
  - Early validations
  - Team-oriented

- **Flexibilitiy**
  - Adjustable languages
  - Specific reports
  - Integration with other tools
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