



Open Source Tools for Embedded Systems

New Projects and Proposals

Status



New Projects and Proposals

- 3P - PolarSys Packaging Project
- ARCon
- CHESS
- Sirius
- POP
- TOPCASED migration



PolarSys Packaging Project

- Goals: provides PolarSys specific packages
- Top Level Project: PolarSys TLP
- Status: incubation
- Actors: Airbus, Obeo, Thales
- Roadmap: first delivery Oct 23th, 2013



ARCon

- Goals: architecture validation in UML/SysML
- Top Level Project: PolarSys TLP
- Status: incubation
- Actors: Combitech, Husqvarna
- Roadmap: TBD



CHESS

- Goals: component-based engineering methodology and tool with profiled UML/MARTE
- Top Level Project: PolarSys TLP
- Status: proposal
- Actors: INTECS, University of Padova
- Roadmap: TBD



Sirius

- Goals: DSL environment factory
- Top Level Project: Eclipse Modeling Project
- Status: incubation
- Actors: Obeo, Thales
- Roadmap:
 - November 2013: 0.9 release
 - June 2014: 1.0 release with Luna



POP

- Goals: specification and programming formal environment for critical/real-time embedded development
- Top Level Project: PolarSys TLP
- Status: incubation
- Actors: CNRS, INRIA
- Roadmap: TBD

TOPCASED migrates to Eclipse and PolarSys



- Gendoc
- OCL
- Facilities
- Scripting
- TOPCASED Req



Gendoc

- Goals: model to document (odt/docx/+) generator
- Top Level Project: Eclipse Modeling Project
- Status: proposal
- Actors: AIRBUS, ATOS
- Roadmap:
 - Nov 2013 - IP review
 - Dec 2013 - First builds



OCL Tools

- Goals: end-user OCL checking
- Hosting Project: OCL
- Status: in progress
- Actors: AIRBUS, OBEO
- Roadmap
 - Dec 2013 - Effective migration
 - Jun 2014 - Release in Luna



Facilities

- Goals: browse model in HTML, cross-reference view, projects templates, sort selection in textual editors
- Top Level Project: TBD
- Status: *proposals*
- Actors: AIRBUS, ATOS
- Roadmap
 - Dec 2013 - Effective migration
 - Jun 2014 - Release in Luna-based PolarSys IDE



Scripting

- Goals: full Eclipse scripting capabilities, model specialization
- Hosting Project: Eclipse project/E4
- Status: in progress
- Actors: AIRBUS, ATOS, Infineon, Windriver
- Roadmap
 - Dec 2013 - Effective migration
 - Jun 2014 - Release in Luna



TOPCASED Req

- Goals: models / 2 layers textual requirements linking tool
- Top Level Project: PolarSys TLP
- Status: not started
- Actors: AIRBUS, ATOS
- Roadmap:
 - Jan 2014 - Proposal in PolarSys
 - Jun 2014 - Release in Luna



Coming soon

- Kitalpha
 - Viewpoints commodities
- TOPHOO
 - HOOD-like design
- FAST
 - SART-like functional specification
- EAGLE
 - Engineering pivot model repository framework
- TAMORE
 - Modeled requirements management
- ReqCycle
 - Requirement management and traceability
- Embedded code generators
 - UML <-> C and more
- gPM
 - Versatile tickets tracker
- COTS Management Tool
- UML RT runtime