



## Papyrus IC – Steering Committee Minutes 2016-04-05/06/07

Present at the meeting were the following:

Present?	Name	Organization
Y	Thomas W	Adocus
		Airbus Helicopters
Y	Xavier P	Airbus Defence & Space
Y	Tristan F	Atos
Y	Sebastien G, Remi S	CEA
Y	Gert J	Combitech
Y	Maximilian K, Philip L	EclipseSource
Y	Francis B (chair), Reibert A	Ericsson
Y	Johan VN	FlandersMake
Y	Cortland S	OneFact
Y	Stefan L, Anders E, Per J	SAAB
Y	Charles R, Simon R	Zeligsoft
		Eclipse Foundation/Polarsys

### Particulars of the meeting

Time 2016-04-06 at 09:00-17:00 CET  
Place f2f meeting at CEA in Paris

### Particulars of the next meeting

Time 2016-04-25 at 16:00-17:00 CET  
Place Teleconference

## Agenda

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### 1. Main Topics to be discussed

- Governance
- Budget update
- Recruitment of additional members
- Review of planned contributions from the Papyrus IC members
- Meeting schedule for 2016 -- we need to make minor updates
- Papyrus IC goals, priorities and plan for 2016 -- this is the main topic of the day!
- 2016 potential investments
- Establishment of Research/Academia Committee and activities/plan for 2016
- Vote on final version of charter revisions
- Others
  - o Business models regarding Papyrus and open source modeling

## Papyrus IC – Minutes

### 2. Approval of Mom from Previous Meeting

- None

### 3. Actions from Previous Meetings

Captured	Action	Responsible	Due	Comment/Status
2015-12-02	Polarsys (Gaël B) will take the lead on organizing the Papyrus IC logo process	Gaël B	2016-03/04	The logo selection process and committee will be discussed and formalized during the Steering Committee meeting next week. Will be the responsible of the Product Management committee. Process to start in the next week. The complete process to get a new logo shouldn't take more than 2 weeks. Being organized by the Product Management Committee. To be started after EclipseCon. <b>Approval (see approval section) for Charles to officially start the logo contest.</b>
2016-02-17	Send the Papyrus IC Charter required modifications to Mike Milinkovich	Francis B	2016-04-30	The charter modifications have been unanimous approval by an email voting in March. Will incorporate the minor clarifications proposed by Charles R and send the final modifications to Eclipse Foundation for official posting on the website.
2016-02-17	Move MoM in pdf format to the wiki and ensure that proper archiving mechanism is provided by the Eclipse Foundation	Francis B, Stephan T, Gael B	2016-03-15	Still waiting for the Eclipse Foundation to provide a private wiki for the papyrus IC Steering Committee and instructions on how to proceed. Also, the Eclipse Foundation needs to provide proper archiving support. <b>Need to talk to Gael B about it.</b>
2016-02-17	Francis to schedule a teleconference to discuss the setting up of Research/Academia	Francis B	2016-02-29	<b>Done.</b> The teleconference is scheduled for April 12th
2016-02-17	Stephan to contact Remi to schedule a joint meeting of the Architecture and Project Management Committee. The meeting invitation will also be extended to Steering Committee members	Stephan T	2016-02-29	<b>Done.</b> The meeting took place on April 6-7 during the f2f consortium meeting at CEA (Paris)
2016-02-17	Define clear 2016 goals and priorities for the Industry Consortium Francis B, Stephan T, and Stephan L to work with the other user organizations to make the first pass on ...	Francis B	2016-02-11	<b>Done</b> during this meeting . Need to close the loop with Airbus Helicopters (Stephan T)
2016-02-17	Discussion on potential budget investments	Francis B	2016-02-11	<b>Done</b> during this meeting
2016-03-23	Francis to send an email to the Papyrus IC mailing list to ask people to register to the Polarsys public mailing list and inform then that we will be switching to the Polarsys mailing list as of the beginning of	Francis B	2016-03-23	Done

	May			
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#### 4. Budget update

- Need to check the Polarsys budget status with Dominique T
- European promotion trip – Cost \$7,725 USD (at today's exchange rate)

#### 5. Recruitment of additional members

- Main focus on end-user companies
- Number: 6
- Application domains
  - o System and software design
    - Including enterprise software
  - o Automotive and mechatronics
  - o Mil/aero:
  - o Space: NASA, ESA, ...
- Geographies:
  - o 2016: NA and Europe
  - o Future opportunities
    - Japan, India, Korea
- Means
  - o Need to have a strategy for bringing in automotive companies
    - Plastic Omnium will most probably become a member if we can get another (important) automotive company to join
    - GM: started discussions and will continue to work on it
  - o Also need a plan to work with Airbus Defence & Space and Spacebel to bring in ASE
  - o The development of a Papyrus-Based alternative for Rhapsody should help with Volvo Trucks, Husqvarna, and potentially Atlas Copco
  - o CEA is organizing a road show in USA. We need to leverage it
  - o US DoD?
  - o NASA
  - o OMG
    - How should we leverage OMG membership of the OMG
    - Francis to send an email to Richard Soley to ask potential collaboration
  - o TM Forum
    - Need to maximize potential
  - o Budget?

#### 6. Update on planned contributions from the Papyrus IC members

- Done as part of the discussion

#### 7. Meeting schedule for 2016 -- we need to make minor updates

- Main meetings
  - o April 5-6-7 at CEA in Paris
  - o Sept 15-16 at Ericsson in Kista – after the Ericsson Modeling Days
- Secondary meetings
  - o June 6 in Toulouse – day before EclipseCon France

- Oct 24 in Ludwigsburg – day before EclipseCon Europe

## 8. Papyrus IC goals, priorities and plan for 2016

- The 2016 goals, priorities, and plan are captured in the [mind map](#)
  - Can be found on the [Google Drive](#)
- Use of current budget
  - For the moment, we exclude investments in technical development because current budget is not sufficient to make a real impact
    - Exceptions can be made for specific targeted development
- Recruitment of new Papyrus IC members
  - Concrete objectives are defined in the mind map
- Gathering of requirements from end-users

## 9. 2016 potential investments

- Establishment of a formal contract with the Eclipse Foundation/Polarsys
  - What do we need from the Eclipse Foundation/Polarsys regarding legals, marketing, coordination,
  - We need to understand what Eclipse does regarding email archiving
- Marketing investment
  - Development of a simplified version of Papyrus for Information Modeling
    - Use existing work as a starting point
    - Presentation and communication about this specific version is very important
    - Need to include this specific topic in the discussion on overall 2016 product management plan. Architecture committee also has to be involved to make sure that it is properly managed from a product line management perspective.
  - Conferences
    - EclipseCon France
    - MODELS
- Rover project
  - Do we want to distribute rovers to people involved in research/academia who want to use Papyrus and the rover for teaching and/or research?
  - If yes, we need to define the process that will be used to allocate the rovers to specific projects

## 10. Establishment of Research/Academia Committee and activities/plan for 2016

- Charles R to set up the wiki for Research/Academia before end of week to start defining main goals and scope
- Proposition from Sebastien G to add a co-chair from research/academia

## 11. Vote on final version of charter revisions

- See resolution in Section [18](#),

## 12. Item for the Product Management Committee

- Promotion of Papyrus

- List the companies building/selling commercial proprietary based on Papyrus (or which embed Papyrus)
- Positioning of Eclipse Papyrus as a “Platform” by opposition to Papyrus tools or products
  - PMC needs to decide how to address this and present that to Steering C
- Coherent messaging/positioning regarding Papyrus
  - Papyrus is a DSL platform based on UML and SysML
  - DSL and DSML?
  - How do we use terms like: modeling, MBSE, MDD, ...
- Usability and UX
- Work with the Architecture Committee to provide a comprehensive overview of the status and plan of the different key components of the Papyrus “ecosystem” (to which level?) – such that the Steering committee to maintain goals, priorities, and plan
- Need to properly communicate the progress of Papyrus in the last years

### 13. Success Factors for the Different Members

#### Airbus Defence & Space

- Papyrus
  - Looking for new tool to do software modeling tool, base UML, for software design
    - Mainly class diagrams,
  - Currently using TopCased
    - Tool currently used by Airbus Helicopters, Airbus Defence & Space, Airbus (Avionics/Aircraft/commercial)
    - Investigating moving to Papyrus
    - Currently facing issues regarding too much complexity based on the fact that the whole UML is made available
    - Currently investigating the customization of Papyrus for the internal use cases
    - Need a set of bugs to be fixed to be able to deploy – this list has been already provided to CEA
      - Currently have a list of 50 reqs (not currently implemented in Papyrus) to need to be supported in Papyrus
    - Git
      - Airbus Helicopters is trying to use Git
      - Airbus Defence & Space is using Git
      - Airbus is using CDO
    - Using Gendoc to generate documentation
    - Using Acceleo for code gen
  - Need a stable papyrus modeler
    - When moving to a new version, need to ensure that what was working in the previous version also works on the new version
- Papyrus IC
  - Need to migrate to Papyrus in 2016
    - Coordinating actions with Airbus Helicopters

#### Ericsson

- Papyrus
  - Papyrus-RT support
  - DSL support
  - Roadmap for the support for hybrid textual/graphical modeling
- Papyrus IC

- Ensure that we can deploy Papyrus/Papyrus-RT deployment in Baseband
  - Scalable, usable, ...
  - Need to provide a “better solution” than existing one (RSA-RTE) – DSL support is essential
- Establish at least one co-financing (from existing members) project in 2016

## Saab

- Points provided by Stefan L prior to the meeting
  - Control and transparency
    - Budget and usage/follow up, Polarsys and Papyrus
    - Clear Mission and goals, map all initiatives
    - Set priorities/decide based on input (arch->prod->stear), (Stear->prod->arch)
    - Initiatives mapped to goals
    - Initiative/effort progress, identify gaps/needs/help (PDCA)
  - Portfolio management
    - Delivery Roadmaps according to planned/prioritized initiatives/efforts
    - Marketing
    - Focus areas
  - Clear Architecture picture & mapping (knowing the solution/Q)
    - How is it build (eclipse base reused, EMF reused, Papyrus unique) <modeled>
    - Used standards, defined interfaces (blackbox)
    - Capabilities/needs mapped to building blocks <modeled>
    - Initiatives (planned-unplanned) mapped to build blocks, analyze changes/impact
    - Identify strengths & weakness, describe new effort/improvements
  - What are the main goals of the end-user companies
    - Airbus Defence & Space, Airbus Helicopters, Ericsson, Saab
  - Product management and backlog
    - How do we take into account both member and non-member priorities
    - Roadmap production/communication
- 
- Papyrus
  - Always Working Papyrus package, adapt to DevOp
  - Usable for engineering and evaluation
  - Different domains: UML, SysML, xtUML
    - Show that bridging can be established between the different domains
  - The main thing is to contribute to develop xtUML language and methodology
    - Integration with the BridgePoint Technology
    - Show that we can have an editable xtUML model in Papyrus to do a gap analysis
  - Platform independent model in papyrus
  - Show how the WoW is improved (in terms of agile) with Papyrus
  - Integration with FMU/FMI for co-simulation
    - OpenCPS projects
  - UML-RT vs xtUML
    - Potential use of Marte has a base specification for non-functional aspects
  - Mid/long-term: PLM
  - Migration experience on migrating to Papyrus and model import, open formats
- Papyrus SysML
  - Currently using a Rhapsody
  - Good usability

## Papyrus IC – Minutes

- In particular for system engineering training
- Papyrus IC
  - Governance and transparency, to be able to drive in desired direction
  - Demonstrate that the Papyrus IC has been able to contribute to research/academia teaching
  - Synchronize resources between the different companies to show synergy and cost reduction (cross pollination)
- Saab closed interest
  - Education, test and give feedback – as a new comer to the environment
  - Figure out what is common to the IC and what is unique to Saab, identify value and opportunities

## Flanders Make

- Product interest:
  - Papyrus for Systems Engineering
    - SysML 1.4
    - Usability & Stability (important for industrial adoption)
    - Collaborative modeling for reasonably sized teams
  - Papyrus for RT (initial steps will be done on v1)
- Papyrus IC
  - Overall goal is to improve MBSE for mechatronics
  - Get more of the partners (5) on the MBSE strategy path
    - They feel the potential, but we need to convince them
    - Papyrus need to be at par with other SysML tools
    - E.g. Collaborative Modeling (Git, svn)
  - Main overall objective
    - Get a top-quality SysML: stability, usability, ...
  - Current partners
    - Use it for evaluation towards potential adoption.
      - Typically replacing Enterprise Architect.
    - Some of the partners could be interested in Papyrus-RT.
      - Currently use their own frameworks, not a real RT tool

## Adocus

- Main focus on enterprise software
- Papyrus
  - Simple UML modeling tool
    - Don't see all the concepts at the same time
    - Similar to Sparx
    - Ready-to-use version
  - Enterprise business modeling and information modeling tools
    - ArchiMate, others
    - These tools are very expensive
  - Model migration from Sparx (EA, ArchiMate)
- Papyrus IC
  - Attract more members, set up concrete targets in terms of numbers, application domains, and geographies
  - Business models for Adocus
    - Services around Papyrus, DSL (e.g. business process modeling) and customer specific
    - Plug-ins
    - Commercial proprietary plug-ins
      - MMA



- Would like to promote this product as part of Papyrus IC

## CEA

- CEA
  - Main CEA focus on industry 4.0 and IoT
  - Work with external and internal stakeholders to support the French industry
  - The main business is to provide tools and methods
- Papyrus
  - Usability
  - Reduce required level of expertise to develop/support DSL
  - Support for co-existence/co-evolution of models – as part of collaborative modeling
  - Also a main focus on safety and security capabilities
  - Provide an alternative for commercial testing tools
  - FMI/FMU support for co-simulation – as part of the OpenCPS project (EDF is also involved in this project)
  - List to be discussed at the PMC level
- Papyrus IC
  - Be able to demonstrate that the Papyrus IC is useful
  - Additional members joining the Papyrus IC
    - CEA is trying to convince some of the industrial partners to join the consortium (including CEA as an end-user)
  - Collaborate with a network of partners to provide a global commercial offering for Papyrus

## EclipseSource

- EclipseSource
  -
- Papyrus
  - Collaborative Modeling
  - Papyrus perceived as a platform
- Papyrus IC
  - Increase overall business
  - Offer commercial distribution/maintenance & support – and hoping to get at least one customer by end of year
  - Increased visibility about Papyrus and modeling
  - Help grow the Papyrus IC
  - Create a sustainability ecosystem based on proper evolution of the Papyrus core
    - It needs to be properly funded

## OneFact

- OneFact
  - Main focus on Raven project in UK DoD context
    - Looking for fully open open-source solution to replace a proprietary xtUML tool that has been end-of-lifed
  - Need to balance req with the ones from Saab
- Papyrus
  - Align of
- Papyrus IC
  - How can Papyrus, Papyrus-RT, and SysML collaborate?
  - Work with Zeligsoft and other supplier members

- Convergence of xtUML-based technologies
- Need a proper progressive evolution path
  - Want to do it in collaboration with other Papyrus IC members and customers

## Zeligsoft

- Papyrus-RT
  - V 1.0 coming up in June
- Papyrus IC
  - Facilitate collaboration with end-users and other suppliers
    - Text-based modeling
  - DSL support
  - Development of alternative to Rhapsody
  - Advertising of commercial offerings
  - Always looking for green-field opportunities

## 14. Services required from Polarsys and the Eclipse Foundation

- Comments:
  - The cost of some service is proportional to the number of members, but others are not
- Support for industry consortia
  - Membership management
  - Organization of our own tracks in conferences
  - We expect a short list a contact persons for the set service area
  - Have a price for the overall set of services (with high-level decomposition for each main service)
- Infrastructure
  - We will need performance improvements on the Eclipse platform -- we will need it asap to improve development efficiency
  - We need to review the list of infrastructure services required for the consortium
  - We need to have our own infrastructure on the marcom side
  - Do we want to have the same on the dev side?
- Marketing support
  - Logo
  - Roll-ups
  - Collaterals: data sheets/user stories
  - Presence/organization/"representation" conferences/conference logistics
- Legals
  - We need to define what we are really need on top of the base Eclipse membership support
  - Trademark
- Financial reporting
  - Note: don't mean micro-management

## 15. Potential Commercial Offerings

- Plug-ins and added-value products
  - As a service
  - As a product
- Papyrus distro (testing/packaging/distribution)
  - There is a real need to commercial offerings
  - If we take Linux as an example, most companies buy there Linux products from commercial vendors e.g. RedHat and WindRiver

## 16. Conference presence

- TM Forum Live on May 9-12 in Nice, France
  - o Need proper cost estimate
  - o Francis B to represent the Papyrus IC
- EclipseCon France
  - o No sponsorship
  - o Presence (Airbus Defence & Space, Atos, CEA, EclipseSource, Zeligsoft) at the CEA/Papyrus booth
  - o Papyrus IC meeting for member companies who will be there
- INCOSE
  - o Participants: CEA, Zeligsoft
  - o Papyrus IC presence in the Polarsys booth
- Saab Modeling Day
  - o Closed Saab event
- Ericsson Modeling Days
  - o Presence from several of the members
- MODELS
  - o Co-sponsoring of the Welcome reception with Polarsys (2\*€2,000)
  - o Organization of an “exciting” Papyrus IC participation to the MODELS conference
    - Research/Academia Committee will be responsible to organize it
  - o Members planning to go to MODELS 2016 in St-Malo (France): CEA, EclipseSource, Ericsson, Saab, Zeligsoft
- EclipseCon Europe
  - o No Papyrus IC summit this year
  - o Papyrus IC booth
  - o We will look at the possibility to organize a one-day event for the Papyrus committers
    - Different activities (sports, excursions) could be organized together with lunch and diner
    - Companies would have to cover for travel expenses for the conference and the consortium would cover the expenses for the day
    - Maximilian K will come back with a proposal
- 

## 17. Open Questions

- What is the position of the Papyrus IC regarding commercial “proprietary” products sold as add-ons to Papyrus?
  - o What are the minimal contributions on-top of Papyrus to be considered as “proper” “Papyrus products” that the Papyrus IC can promote?
- Promotion of Papyrus-based commercial solutions
  - o We need to define the position of the Papyrus IC
- Papyrus brand:
  - o Who “owns” the Papyrus brand
  - o What is the role of the Papyrus IC in the management of the Papyrus brand?

## 18. Resolutions

- Proposed resolution: Approval of the development of Papyrus for Information Modeling by CEA and EclipseSource

- Cost: 34,000 USD
  - Presented by: Charles Rivet, second by Reibert A
  - Discussion:
    - Architecture Committee has approved the need to develop Papyrus for Information Modeling
    - Assumes
      - No negative impact of development schedule of Papyrus 2.0 (neon) and Papyrus-RT 1.0
      - Delivery before Neon
    - Reqs
      - Need to be developed to ensure maintenance and evolvability
      - DSL development documentation is provided with the delivery
    - Messaging for this version is excluded from this contract. It is the responsibility of the Papyrus IC Product Management Committee
  - Vote result: Unanimously approved
- Proposed resolution: Approval to co-sponsor the Welcome reception at Models together with PolarSys -- Budget would be €4000, should be ok if we consider 2,500USD for the Papyrus IC
  - Presented by: Cort S, second Charles R
  - Discussion:
    - Approval is conditional to Polarsys co-sponsoring with Papyrus IC
  - Vote result: Unanimously approved
- Proposed resolution: Mandate Steering Committee Chairman to establish an agreement with the Polarsys and the Eclipse Foundations regarding the set of services we need at the Papyrus IC level – as outlined in Section [14](#),
  - Presented by: Francis B, second Maximilian
  - Discussion:
    - Chairman to get back to the Steering committee after initial discussion
    - An additional person to work with the Chairman if required
  - Vote result: Unanimously approved
- Proposed resolution: Make suggestion to the Eclipse Foundation to allow for-profit organizations to join the Papyrus IC as Observer members at no cost for one year – however, it is clear, organizations are still required to sign Eclipse Foundation agreements
  - Presented by: Reibert A, Cort S
  - Discussion:
    - Chairman to discuss with Eclipse Foundation the possibility to do it as a pilot project for two years to see if this can work increasing the number of new (paying!) members
    - Will propose limit on the maximum number of Observer to join
  - Vote result: Unanimously approved
- Proposed resolution: Modifications proposed by Charles R to be approved as part of the final version of the Papyrus IC charter
  - Modify the explicit mention of daily rates by “rate as defined and approved by the Steering Committee on an annual basis”
  - Define “year” as “Calendar year” in the definition section
  - Typo on page 6 (in “that view”):

- The Participant Member class includes any organization, user or supplier, small or large, that views the Papyrus tool suite as an important part of their corporate and product strategy.
      - Remove “draft” everywhere
      - Delete the bullet about “Observer status is renewable on an annual basis” in the description
  - Presented by: Maximilian K, second Johan VN
  - Discussion:
    -
  - Vote result: Unanimously approved

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## 19. Action Points

Captured	Action	Responsible	Due	Comment/Status
2016-04-06	Ask the Eclipse Foundation to have our own domain (name tbd)	PMC		
2016-04-06	Need to decide what to do with the website	PMC		
2016-04-06	Set up the wiki for Research/Academia to start defining main goals and scope	Charles R		
2016-04-06	Make a proposal for the organization of a one-day event for the Papyrus committers at EclipseCon Europe	Maximilian K		