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Comprehensive Modelling for Advanced Systems of Systems

C O M P A S S

COMPASS Initial Dissemination Plan

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Contributors:

Steve Riddle, UNEW

Editors:

Steve Riddle, UNEW

Reviewers:

Peter Gorm Larsen, IHA
Augusto Sampaio, UFPE
Richard Lloyd Stevens, Insiel

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Abstract

This report summarises the dissemination activities planned for COMPASS. The activities include development of the COMPASS website, a schedule for webinars, white papers, newsletters and technical publications, activities of the COMPASS Interest Group, publication of a code repository and Summer School.

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1 Introduction

This report summarises the dissemination activities planned over the lifetime of COMPASS. Seven classes of outputs (OP) from COMPASS are planned:

- OP1** The CML Integrated Modelling Language (formal definition, technology transfer materials, demonstrations of use)
- OP2** Methods and Guidelines (modelling pattern repository with SysML+CML, process and competencies for SoS development)
- OP3** Open Tools Platform (supporting SysML+CML; documentation, technology transfer materials, demonstrations of use)
- OP4** Analysis Tools as plug-ins (dynamic and static analysis of CML models; documentation, technology transfer materials, demonstrations of use)
- OP5** Industry Experience from Case Studies (requirements, benchmarks, application information)
- OP6** Contributions to S&T literature (CIG workshops, summer school, journal and conference publications, public webinars, MSc and PhD theses)
- OP7** Descriptions of Future Technical Challenges in Model-Based SoS Engineering (from inputs from developers and stakeholders and project experience)

The plan for dissemination activities summarised in this report focus on OP6, but each will be presenting outputs generated from the other output classes. They are summarised in the following sections: the COMPASS website¹, webinars, white papers, newsletters and technical publications, activities of the COMPASS Interest Group, Code repository and Summer School.

Dissemination reports scheduled at month 12, 24 and 36 will provide updates on progress from each of these dissemination activities.

2 COMPASS website

The COMPASS website is the primary public source for dissemination. At present, it provides a project overview, recent project news, project details,

¹<http://www.compass-research.eu>

publications (including public deliverables) and a link to the project wiki. Links are given for all the consortium members, related technologies and tools such as Circus², Overture³ and Artisan Studio⁴

Over the lifetime of the project, the dissemination materials produced (covered in the following sections) will be made available on the website. Regular reports on website usage will also be provided.

Using a Google Analytics service, statistics on website usage have been gathered since 13 December 2011. Between that date and 5 March 2012, 304 unique visitors have been to the site. Further usage statistics are shown in Table 1.

Month	Visits	Unique Visitors	Pages/Visit	% New Visits
Dec	79	57	2.62	72
Jan	207	119	1.99	51
Feb	247	145	2.09	49

Table 1: COMPASS website usage statistics

The figures indicate a steady increase in visitors, with percentage of new visitors maintained at around 50% in the third month. In terms of demographics, during the period from 13 December 2011 to 5 March 2012, the cities of the COMPASS consortium partners represent the majority of the traffic (Aarhus 22%, Newcastle 15%, York 5%, Trieste 4%, Recife 3%). Other cities (Copenhagen, Cheltenham, Edinburgh, Seoul, Natal) are identifiable with members of the Compass Interest Group. The most accessed pages, aside from the landing page, are those describing the COMPASS approach, the public deliverables and the COMPASS Interest Group.

At this early stage the usage statistics primarily give an indication of use of the website by consortium members. However, the rising numbers of unique visitors and healthy percentage of new visitors is encouraging, and can be expected to increase as dissemination activities take place and are reported.

²<http://www.cs.york.ac.uk/circus/>

³<http://www.overturetool.org/>

⁴<http://www.atego.com/products/artisan-studio/>

3 Webinars

Public webinars (internet-based seminars) will be used to disseminate the SoS technologies developed in Theme 2 (Methods) and Theme 3 (Tools). The webinars will make use of WebEx (with support from Atego), and will be recorded and placed on the COMPASS website for access after the webinar.

Presently two webinars are scheduled, as follows:

- At the end of the second convergence phase (April/May 2013), to present the current status with CML and tools
- During the final convergence phase (June/July 2014) summarising experience from the case studies and challenge problems, and presenting updates on technologies

In planning a schedule for webinars in the project, we have taken into account the need to present project results to a public audience beyond the CIG membership. The schedule currently contains only two webinars. During the first year of COMPASS we will seek, via CIG membership and other public dissemination activities discussed here, to build up public interest for the first webinar; registration numbers at this webinar will be assessed to help us to adjust the schedule for future webinars as appropriate.

4 White papers

White papers present short (2-3 page) entry-level technical reports on topics both within the project and relating to current topics in systems engineering. As with the webinars, the core audience is expected to be COMPASS Interest Group members, but the white papers will be publicly available on the COMPASS website.

A regular issue of white papers will follow the schedule of those project deliverables which relate to a topic suitable for an entry-level description. In the first year, this will include:

- Modelling Systems of Systems architectures (May 2012, following issue of D22.1 Initial report on SoS Architectural Models)
- Specifying Requirements for Systems of Systems (July 2012, following issue of D21.1, Guidelines for SoS Requirements)

- A Vision for System of Systems Tool Support (September 2012, leading up to issue of D31.1 Initial Release of COMPASS Tool)

The second and third years will include white papers summarising Modelling and Analysis of SoS (WP24), Tools releases (WP31) and Case Studies/Challenge Problems (WP41,42,43). This does not preclude topics for further white papers which may be identified as the project progresses.

5 Newsletter

A regular newsletter of 2-4 pages will be issued at intervals of approximately 6 months. The first newsletter is scheduled to be released at the end of March 2012. Contents for the first newsletter will include:

- An Introduction to COMPASS
- The first 6 months
- “Meet the Partners” (regular item)
- The COMPASS Interest Group
- Upcoming activities, conferences and workshops (regular item)

Further newsletters will review progress, publicise white papers and webinars, and select a different partner each month for the “Meet the Partners” slot. The first partner in this slot will be Bang & Olufsen.

The newsletter will be available on the COMPASS website, sent to members of the COMPASS Interest Group and disseminated at conferences attended by members of the consortium. Further dissemination of the newsletter will take place using mailing lists, via partner companies such as Atego as well as the LinkedIn network.

6 Technical Publications

Technical publications are prepared by consortium members with authorship coordinated via the project’s internal wiki page. The major significant conferences in the area are summarised in Table 2.

Activities for COMPASS dissemination at conferences such as SoSE, PROVE and INCOSE for 2012 are underway, with a proposal accepted for an

Call date	Conference	Conference Date
Mar 2012	FM 2012 18th Int. Symposium on Formal Methods	Aug 2012
Apr 2012	IEEE Int. Conf. on System of Systems (SoSE 2012)	Jul 2012
Apr 2012	9th Int. Colloq. on Theoretical Aspects of Computing	Sept 2012
Apr 2012	13th IFIP Working Conference on Virtual Enterprises (PRO-VE)	Oct 2012
Apr 2012	ICFEM 2012 14th Int. Conf. on Formal Engineering Methods	Nov 2012
Apr 2012	3rd Int. Conf. on Complex Systems Design & Management (CSD&M 2012)	Dec 2012
Aug 2012	35th Int. Conf. on Software Engineering	May 2013
Nov 2012	43rd IEEE/IFIP Int. Conf. on Dependable Systems and Networks (DSN 2013)	June 2013
Nov 2012	INCOSE Int. Symposium	Jul 2013
Nov 2012	IEEE Systems Conference	Mar 2013

Table 2: Major conferences and submission dates (dates for 2013 conferences assumed)

invited session at SoSE and planned collaboration with other ICT projects (DANSE, T-AREA-SOS, ROAD2SOS) at both INCOSE and SoSE.

7 COMPASS Interest Group

The COMPASS Interest Group (CIG) consists of SoS stakeholders, mainly from industry and government, including providers of constituent systems, systems integrators, and those with a stake in the performance of SoSs. The CIG provides a range of guidance to the consortium, evaluating the emerging COMPASS technology and defining challenge problems.

Current members of the CIG are:

- Roke Manor Research Ltd
- Nokia
- GridManager
- West Consulting BV
- Rockwell Collins
- UNU-IIST Center for Electronic Governance
- 3SL
- BAE SYSTEMS
- Embraer
- Terma Space

At the time of writing, five of these companies have provided input to support the selection of challenge problems.

CIG workshops are scheduled for month 18 (March 2013) and month 32 (May 2014). The initial workshop introduces the methods and tools developed in Phase 2, while the second gathers experience and feedback from CIG members on the challenge solutions.

CIG membership is planned to grow during the project's lifetime, as a result of engagement through the dissemination activities already described. In particular, a presence at SoSE and INCOSE conferences, the Safety-Critical Systems Symposium (SSS) and reciprocal links with other ICT projects will help to grow the CIG membership.

8 Code repository

Software (mainly the tools integration platform and analysis plugins) will be made available online via sourceforge⁵, with downloads monitored and a request for users to provide details of their interest in the tools. The website and newsletter will publicise the availability of the code.

The schedule for software availability corresponds to tools releases in WP31:

- Initial release, month 12 (September 2012)

⁵<http://sourceforge.net/>

- Second release, month 16 (January 2013)
- Third release, month 26 (November 2013)
- Fourth release, month 33 (June 2014)

9 Summer School

A research-based summer school, aimed at research students and early-career researchers, will include tutorials presented by research and industrial partners on the COMPASS outputs. This summer school will be scheduled towards the end of the third year of the project.

10 Conclusion

The dissemination plan summarises the range of dissemination activities taking place over the course of the project. Modifications and refinements to the plan will take place alongside the annual dissemination reports as new dissemination opportunities arise.