



Project DEPLOY
Grant Agreement 214158

“Industrial deployment of advanced system engineering methods for high productivity and dependability”



DEPLOY Deliverable D4

Initial Dissemination/Exploitation Plan

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1 Introduction

This document aims at outlining an initial plan for use and dissemination of knowledge, to raise public participation awareness and to report project initial work on dissemination and exploitation from DEPLOY. It will be updated every year, completed with progress made and delivered at month M12 (D14), M24 (D27), M36 (D37) and M48 (D52).

2 Strategy

Our objective is to transfer Event-B methodology and Rodin tools to the industry, requiring to:

- confirm that the Rodin open-platform is fit for use by industry for the development of fault-tolerant systems,
- identify what is not fit and to improve those issues,
- develop an industrial methodology/guidelines for using Event-B (modelling techniques, patterns, requirements management, etc.).

This platform should fulfil the “triple U rule”, ie *Useful, Usable, Used*. To verify this rule, we consider that the following assertions should hold:

- [A1] The methodology and tools were successfully applied in case-studies in 4 industrial domains. Positive feedback has been collected and triggered adaptation of methods and tools. Significant information are publicly available to demonstrate the effectiveness of those methods and tools and to apply them in new industrial setting beyond the end of the project.
- [A2] Positive feedback has been collected among Deploy Interest Group (DIG) members. Some of them have provided plug-in specification and/or complementary case-study, have initiated assessment project, and/or have started to use/contribute to the platform.
- [A3] Set up of a large community of contributors. The platform is explicitly supported by several universities and companies outside the consortium. They will provide for example
 - tested and packaged releases of the platform in an easy-to-install form;
 - documentation and examples of use for the platform and selected plug-ins;
 - creation of plug-ins for client tools.

A pool of developers has been set up and massively contributes to the platform through a well organized open-software infrastructure.

[A1], [A2] and [A3] are the criteria for assessing the technical interest of the platform. [A2] and [A3] require a specific dissemination policy in order to enlarge the community

around the platform as much as possible, and to ensure technical support from the open-source world.

In the Rodin project, we mentioned another criteria:

- [A4] Some dedicated plug-ins are commercially available and have been sold/are about to be sold to companies.

[A4] was the main criterion for building a business plan and envisaging a commercial future for the platform. We are not considering this criterion as a key for success, as the future of this platform could rely mainly on services instead of tool selling. Hence, this criterion is not maintained and evaluated in the current document.

3 The plan

The following plan is entirely driven by those three criteria [A1], [A2], and [A3].

3.1 *DEPLOY Interest Group (DIG)*

The DEPLOY Interest Group is a community that is of paramount importance for the project, as its members have specifically declared their interest and support. Hence the overall dissemination/exploitation activity is centered on the DEPLOY Interest Group, gathering companies/universities/individuals interested in the RODIN platform. The DIG has privileged access to information (bi-annual newsletter, dedicated hands-on sessions, etc).

DIG members may:

- join the group. A simple (electronic) letter of intent is sufficient. Joining the DIG is free of charge;
- provide feedback of the platform and related plug-ins, by using it and sharing experience/expectation;
- provide complementary case-studies/examples covering similar/new application domains;
- attend dedicated training/hands-on sessions, organized specifically for the DIG upon request.

Special attention is given to DIG: dedicated means are allocated to help DIG members getting educated / gaining experience with the Rodin tools.

To populate the DIG, our strategy is threefold:

- invite Rodin project followers to integrate the DIG,
- send personal invitations to join,
- promote the DIG at each dissemination event,

in relation with the organization of industrial days, local action of partners, etc., when possible.

Communication is ensured by a dedicated mailing-list, a newsletter and industry days. DIG members will be personally invited to all our dissemination events.

Current DEPLOY Interest Group members are:

- Marc Benveniste (STMicroelectronics - France)
- Ian Oliver (Nokia - Finland)
- O. Sami Saydjari (Cyber Defense Agency)
- Ken Robinson (University of South Wales - Australia)
- Juan Bicarregui (Formal Methods Europe)
- Aryldo G. Russo Jr. (Acesso e Segurança - Brazil)
- John Brightman (AT ENGINE CONTROLS, UK)
- Vecheslav Kharchenko (National Aerospace University - Ukraine)

3.2 Events

Several events will be organized during the lifetime of the project.

Focused Industry Days

These events will be organized between year 2 and year 4 of the project, by the industrial partners, and will take place at one of their locations. These events will be announced six months in advance, in the newsletter and in the DEPLOY Interest Group mailing list. The program of these one-day events will be centered on the practical application of DEPLOY tools and methodology to a specific domain (automotive, transportation, space, business information, pervasive telecoms). Audience from the domain is expected to these events.

DEPLOY Workshops

Two workshops will be organized during year 2 and 4, in association with International Conferences. The target conferences have not yet been selected. These workshops will be the occasion for the project to present current results, and for external stakeholders to get information of DEPLOY and to share experience. These workshops as well as the associated calls for papers, will announced six months in advance, in the newsletter and in the DEPLOY Interest Group mailing list. Large scope industry and academic audience is expected to these events.

Public Exhibitions

The Rodin platform is going to be presented and demonstrated at several occasions (conferences, workshops, summer school, block courses, etc). These occasions are as far

as possible announced in advance in the “[News & events](#)” section of this site. Below are listed the past exhibitions then the planned exhibitions.

Date	Location	Title
March 29 th 2008	Budapest (Hungary)	ETAPS: Formed 2008 Workshop. Formal Methods in Computer Science Education. Presentation "Experience in Teaching Event-B Formal Method"
April 21 th -25 th 2008	Tunis (Tunisia)	"Event-B and the Rodin Platform" Unesco Chair in Tunis
April 23 th -26 th 2008	Kirivograd (Ukraine)	Rodin platform demo at Third International Conference on Dependable Systems, Services and Technologies
May 26 th -27 th 2008	Turku (Finland)	A tutorial "Event-B and the Rodin Platform" will be given at the occasion of the FM2008 conference DEPLOY project will be presented at the exhibition of research projects and commercial tools
June 13 th 2008	Berlin (Germany)	A general presentation about the DEPLOY project at Intern. Symposium on Quality Engineering for Embedded Systems
June 16 th 2008	Nantes (France)	"Presentation of Event-B and the Rodin Platform" - Special day on B organized by the Nantes University
August 26 th 2008	Salvador (Brazil)	B Dissemination Day at SBMF 2008 Conference
August 28 th 2008	Sao Paulo (Brazil)	B Dissemination Day at the IPT
September 1 st -3 rd 2008	Istanbul (Turkey)	ICTAC: Using Design Patterns in the Event-B Formal Method.
November 17 th -19 th 2008	Newcastle (UK)	Dedicated session reporting DEPLOY initial results and general presentations about the project SERENE 08 - RISE/ EFTS Joint International Workshop on Software Engineering for Resilient Systems

3.3 Electronic Dissemination

All materials related to DEPLOY and the Rodin platform are made electronically available:

- Platform and plug-ins source code
- Project deliverables, papers, manuals
- Teaching material
- Models(including case-study description)

Websites. Two DEPLOY websites are related to the project:

- the official site, hosted by ClearSy and reachable at <http://www.deploy-project.eu>. It contains useful information about the project, its objectives. This site nicely integrates two other websites, hosted by Southampton University:
 - the DEPLOY repository (<http://deploy-eprints.ecs.soton.ac.uk/>), containing all the project deliverables, publications, tutorials, models, etc.

- External stakeholders are invited to contribute to the DEPLOY repository.
- the Event B site (<http://www.event-b.org/>) gathering information on the Rodin platform and its plugins.
 - the developer site, hosted by sourceforge and reachable at <http://rodin-b-sharp.sourceforge.net/>.

Publications. The following articles (the publication list is on the website) having been published since the beginning of the project and are available on the publications website:

- Iliasov, Alexei and Laibinis, Linas and Romanovsky, Alexander and Sere, Kaisa and Troubitsyna, Elena (2008) [Towards Rigorous Engineering of Resilient Pervasive Systems](#). In: Seventh European Dependable Computing Conference (EDCC-7), May 7-9, 2008, Kaunas, Lithuania.
- Snook, Colin and Butler, Michael (2008) [UML-B and Event-B: an integration of languages and tools](#). In: The IASTED International Conference on Software Engineering - SE2008. (In Press)
- Iliasov, Alexei and Romanovsky, Alexander (2008) [Refinement Patterns for Fault Tolerant Systems](#). In: EDCC 7: the Seventh European Dependable Computing Conference (EDCC-7), May 7-9, 2008, Kaunas, Lithuania. (In Press)

Metrics. Statistics are collected along the project to evaluate Rodin platform and DEPLOY project popularity. The measurement of DEPLOY websites hits from foreign IP addresses will provide an estimate of the awareness and the interest concerning DEPLOY in both the industry and academic worlds. Reverse links are used to improve our Google score, thus improving our visibility on the Net.

The start of the DEPLOY project has been announced via several media (mailing lists, user groups, etc.).

Statistics from Sourceforge were not available when this report was written (the statistics server has been down for a long period). However DEPLOY websites statistics (number of monthly unique visits) are available and given below:

	<i>January</i>	<i>February</i>	<i>March</i>	<i>April</i>	<i>May</i>	<i>June</i>
Publications	62	383	359	410	411	364
Event-B.org	38	144	477	600	486	401
Wiki Event-B.org	0	0	12	11	10	95
Deploy-project.eu	2586	4741	5936	6365	7741	7770

Other statistics will be collected in the future, especially the number of downloads per publications.

Platform exploitation. A coordination structure has been created to drive the development done around the platform. A roadmap has been made available and is reachable on the DEPLOY website (<http://www.event-b.org/roadmap.html>). External

stakeholders are invited to contribute to the development of the platform, as identified in the roadmap.

Newsletter. DEPLOY publishes a newsletter every 6 months, providing a clear view on:

- what is going on in the project,
- what is its current status is and
- what are the next steps.

All WPs are contributing to the newsletter, which is sent to persons having registered on the website (41 so far). All issues are archived on the website and can be downloaded anonymously.

Project brochure. A leaflet, presenting the project, was elaborated at the beginning of the project and is now distributed at most conferences attended by DEPLOY partners.

Training materials. In relation with WP10 Technology Transfer, teaching material including:

- tutorials,
- large examples, entirely loaded on the platform, accompanied by extensive explanations

will be made available to the community, targeting practitioners (engineers, etc), teachers, researchers, etc. through the DEPLOY publications website.

3.4 Collaboration with ICT SSAI&E projects:

DEPLOY sets up co-operation activities with other ICT project under the WP2007/2008 objective “Service and Software Architectures, Infrastructure and Engineering”, in order to exploit synergies between other projects and to increase the impact of the ICT initiative.

This topic is covered by the “Collaboration Plan” document.

3.5 Contribution to the criteria

In this section, contributions of the planned action items to the evaluation criteria, described in *chapter 2: Strategy*, are made explicit.

Action item	Contribution
DEPLOY Interest Group	[A2]
Focused Industry Days	[A1], [A2]
DEPLOY Workshops	[A3]
Public Exhibitions	[A3]
Electronic Dissemination	[A1], [A2], [A3]