

HATS: Highly Adaptable & Trustworthy Software Using Formal Models

Report from the Coordinator

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First Annual HATS Project Meeting, Gothenburg 21–23 September

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<http://www.hats-project.eu>

- ▶ Project started 1 March 2009
- ▶ All participants are active as planned
- ▶ Initial funding received 35% of total EC contribution
- ▶ Transferred to all participants 19 February 2009
- ▶ Common job advertisement for 11 positions
- ▶ Ca. 15 people employed through HATS funding
- ▶ HATS Web Site launched March 2009 (Deliverable D6.1)

Active/Upcoming Work Tasks

See also [HATS Website Work Packages | Organization Schema](#)

WP1: Framework (UKL)

1.1 UIO, PM 1–12 Core ABS Language

1.2 KUL, PM 9–24 Feature Modeling, Platform Models, Configuration

WP2: Variability (UIO)

2.1 UIO, PM 6–30 A configurable deployment architecture

2.2 CWI, PM 1–24 Feature Integration

2.5 CTH, PM 6–24 Verification of General Behavioral Properties

WP3: Evolvability (KTH)

3.1 UKL, PM 1–24 Evolvable Systems: Modeling and Specification

3.4 KTH, PM 6–24 Evolvability at Bytecode Level

WP4: Trustworthiness (UPM)

4.2 UPM, PM 1–18 Resource Guarantees

WP5: Validation (FRH)

5.1 FRG, PM 1–6 Requirement Elicitation

5.2 FRH, PM 6–18 Evaluation of Core Framework

WP6: Dissemination (FRG)

6.1 FRG, PM 1–48 Dissemination Activities

(Discussed in more detail by Ralf on Wednesday)

So Far

- ▶ Categories “News”, “Publications”, “Deliverables” at Website
- ▶ General presentations of the Project by RH:
 - Meeting of COST Action on Verification of OO Software, June 2008
 - FMCO October 2008, Sophia-Antipolis
 - Dagstuhl Seminar on The Java Modeling Language (JML), July 2009
- ▶ HATS Track at FMCO 2009 during FMweek, Eindhoven Nov 2009:
 - RH: HATS project overview and scalable verification
 - Arnd Poetzsch-Heffter: Modular specification and verification in HATS
 - Martin Steffen: Design of an abstract behavioral specification language

Deliverables

Past and Upcoming Deliverables

Del. No.	Deliverable name	WP No.	Lead Beneficiary	PMs	Nature	Dissemination level	Deliv. date
6.1	Web site and project presentation	6	FRG	2	O	PU	t2
7.2.a	Quarterly Management Report	7	CTH	4	R	PU	cont
5.1	Requirements Elicitation	5	FRG	17	R	PU	t6
1.1	Report on the Core ABS Language & Methodology	1	UIO	47	R	PU	t12
2.2.a	First report on Feature selection and integration	2	CWI	22	R	PU	t12
3.1.a	First report on Evolvable Systems	3	UKL	22	R	PU	t12
7.1	Annual Activity Report	7	CTH	9	R	PU	t12
7.2.b	Annual Financial Report	7	CTH	4	R	PU	t12

Implementation of WT 6.4 “Joint Collaborative Task”

Coordination Action **EternalS** Project 247 758

Trustworthy Eternal Systems via Evolving Software, Data, and Knowledge

- ▶ Project Partners:
 - Univ Trento, CTH, INRIA, KUL (IP coordinators)
 - Queen Mary Univ (Ebroul Izquierdo), Waterford Inst. (Jim Clarke)
- ▶ Budget: 550 kEUR for 36 months
- ▶ Status: negotiations completed, DoW submitted
- ▶ Start date 1 March 2010 (kick-off with cluster review meeting)
- ▶ Goals/instruments (only COORD, no RTD)
 - Task Forces (survey state-of-art, set agenda)
 - Workshops, Training Courses
 - Community Building
 - Road maps, white papers, input to future calls

Meetings

Project Kick-Off, 9-11 March Bologna

36 participants from all partners

WT 1.1 Core ABS Language, 28-30 June Bologna

- ▶ 17 participants from BOL, CTH, UIO, UKL, FRH, CWI, UPM, FRG
- ▶ fixed structure of Core ABS language
- ▶ fixed scope of D1.1, discussed tools

WP 3 Evolvability, 17 June Leuven

- ▶ 10 participants from KUL, CWI, CTH, FRH, FRG, KTH, UKL, UPM
- ▶ Scope of evolvable systems
- ▶ Planning of work tasks, possible collaborations & contributions

WT 5.1 Requirements Elicitation, 21 July Kaiserslautern

- ▶ 4 participants from FRH, FRG, UKL
- ▶ Preparation of D5.1

Scientific Advisory Board (SAB)

The SAB helps the SC with follow-up of work package activities

- ▶ Sophia Drossopoulou, Imperial College London, UK
- ▶ Ugo Montanari, University of Pisa, Italy
- ▶ Frank van der Linden, Philips Electronics N.V., The Netherlands

End-User Panel (EUP), Confirmed members, to be extended!

Project-external companies interested in the HATS technology

- ▶ Gian Luca Cattani, MAPS SpA, Italy
- ▶ Dario Avallone, Engineering Ingegneria Informatica, Italy
- ▶ Thomas Santen, European Microsoft Innovation Center, Germany
- ▶ Andreas Roth, SAP AG, Walldorf, Germany
- ▶ James Hunt, aicas GmbH, Karlsruhe, Germany
- ▶ Marco Pistore, Fondazione Bruno Kessler, Trento, Italy
- ▶ Thomas Walter, DOCOMO Euro-Labs, Munich, Germany

Relation with the Commission

Change of Project Officer

- ▶ 26. January 2009: PO changed from J.-M. Auger to Rüdiger Martin
- ▶ Jean-Marie Auger available as “senior adviser” if there is need
- ▶ Email communication smooth; so far, no physical meeting

Suggestions for External Reviewers

Suggested to Rüdiger Martin on 17 July 2009 (result to be determined)

- ▶ Kaisa Sere, Abo Academy University, Turku
- ▶ Rustan Leino, Microsoft Research Redmond
- ▶ M. Ali Babar, Lero (Irish Software Engineering Research Centre)
- ▶ Jean-Bernard Stefani, INRIA Grenoble
- ▶ Ernst-Ruediger Olderog, University of Oldenburg

Annual Cluster Review Meeting for all 4 IPs in ICT Forever Yours Call

- ▶ 15–16 March, 2009 synchronized with Eternals CA Kick-Off
- ▶ RH, Per W + all WP leaders must be available

FP7 ICT Call 5 Objective 2009.9.5

“Supplements to Strengthen Cooperation in ICT R&D in an Enlarged European Union”

- ▶ Funds to extend ICT projects with partners from new EU countries
- ▶ Application consists basically of extension of existing DoW
- ▶ Concrete request by Tarmo Uustalu, IoC Tallinn, Estonia
 - Well-known researcher in Theoretical CS, Programming Languages
 - Member of Mobius and Cost Action (organized Winter School)
 - Excellent scientific track record, good organizer
 - Expertise and interests match HATS
- ▶ Possible area: reinforce work on code generation/compilation
- ▶ Deadline 26 Oct 2009

Summary: Main Results and Achievements

- ▶ Successful Project Kick-Off
- ▶ Work has started in all relevant Work Tasks
 - Several dedicated WT meetings, good participation
 - All participants highly motivated
 - First technical papers with HATS support published
 - All beneficiaries employed or dedicated suitable personnel
 - Work schedule on track
 - Internal intermediate financial report asked for 30 Sep
- ▶ SAB and EUP established, 2 of 3 SAB members present
- ▶ First deliverable in report form completed on time
- ▶ HATS show-cased at FMCO 2009
- ▶ Participated in successful proposal for CA EternalS