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Author: *WP 10: Collaboration*

Editor: *Luc Moreau (University of Southampton)*

Reviewers: *John Ibbotson, Mark Simmonds (IBM)*

                Steven Willmott (UPC)

                Laszlo Varga (STA)

                Omer Rana (UoW)

                Andreas Schreiber (DLR)

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Summary

This document contains the draft collaboration plan for the PROVENANCE project.

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Members of the PROVENANCE consortium:

IBM United Kingdom Limited	United Kingdom
University of Southampton	United Kingdom
University of Wales, Cardiff	United Kingdom
Deutsches Zentrum fur Luft- und Raumfahrt s.V.	Germany
Universitat Politecnica de Catalunya	Spain
Magyar Tudomanyos Akademia Szamitastechnikai es	
Automatizalasi Kutato Intezet	Hungary

Foreword

This collaboration workpackage covers the liaison and co-operation activities with the other IST projects under Strategic Objective "Grid-based systems for solving complex problems" and its successor in WP 2005/2006.

Each partner contributes 1 person-month to the workpackage, except UoS contributing 2 person-months and undertaking the workpackage leadership.

According to the guidelines, the workpackage is structured around seven tasks, for which we have identified a contact person.

1 Task 1: Exploitation of synergies / technical concertation

(Contact: Steven Willmott, steve@lsi.upc.es)

The *Provenance* project commits to supporting concertation activities proposed between work groups. It will also support the promotion of synergies between participating projects.

Amongst the existing Gridstart TWGs, the *Provenance* project has interest in TWG2 (Virtual Organisations / Security) and TWG7 (Grid Architectures / Middleware / Interoperability) since *Provenance* will adopt security solutions and will contribute core middleware to be integrated into existing Grid architectures.

In the context of these working groups, we will seek to evaluate if there exists some interest for discussions on topics that are related to provenance, and we will seek to organise dedicated sessions on such topics in existing working groups. If at a later time there exists substantial interest we would also consider collaborating with other projects to form a provenance specific TWG.

2 Task 2: Joint fora for exchange and dissemination

(Contact: Steven Willmott, steve@lsi.upc.es)

The *Provenance* project commits to supporting and contributing to any joint fora and dissemination activities.

Specifically, *Provenance* will contribute to the portal of projects that will be created for the IST projects under Strategic Objective "Grid-based systems for solving complex problems". Project members are also keen to actively participate in concertation events organised either by the Grid Unit or the networking projects such as CorGRID.

The project *Provenance*, with Luc Moreau, is involved in the organisation of the third workshop on provenance. The first workshop, entitled Data Derivation and Provenance, took place in Chicago in October 2002 (http://www-fp.mcs.anl.gov/~foster/provenance/). The second workshop, entitled Data Provenance and Annotation, was held in Edinburgh, in December 2003 (http://www.nesc.ac.uk/esi/events/304/). It is anticipated that the third workshop will take place in 2005, possibly in the US, to promote alternance between EU and US. The project *Provenance* will seek to advertise this event to the other projects.

3   Task 3: Co-ordination of standardisation efforts

(Contact: Luc Moreau, L.Moreau@ecs.soton.ac.uk)

The *Provenance* project commits to collaborate with other working groups and initiatives to promote and coordinate standardisation efforts.

It should be noted that the *Provenance* project will itself contribute to the standardisation process since its WP3 "Architecture" will produce a standardisation proposal for a Provenance architecture. Hence, we will collaborate with this initiative in order to increase the impact and relevance of our standards proposal.

The *Provenance* project will have a representative (Luc Moreau) on the proposed "European GRID Standardisation Strategy Group", and is currently contributing to the definition of the group's charter.

In this context, we suggested that the group could help promote the use of standards that various projects propose, which could result in early adoption of standards proposals and associated reference implementations. Such adoption and resulting deployments could lead to the write up of best practice documents.

In order to be able to make standards reusable, we need to ensure that such standards address users' needs. To that end, we will proactively interact with the following projects:

1. Intelligrid, in order to capture their requirements for provenance, especially in connection with their interest in "shared responsibility in collaborative work".

2. SIMDAT, in order to capture their requirements related to the integration of the workflow enactment engine FreeFluo;we will also examine if some SIMDAT applications have provenance requirements, which we aim to capture too.

3. OntoGrid in order to exchange application scenarios.

Provenance workplan has identified January 2005 as the period during which our questionnaire will have to be filled in view of inferring user and technical requirements in February 2005.

4   Task 4: Repository of reference implementations and Grid middleware

(Contact: John Ibbotson, john_ibbotson@uk.ibm.com)

The *Provenance* project commits to contribute to the building of repositories containing reference implementations. Its workpackage WP9, led by John Ibbotson, is in charge of building releases according to the technical annex's schedule. We will make such releases available in the adopted repository.

5   Task 5: Collaboration on research inventory and roadmaps

(Contact : O. F. Rana, O.F.Rana@cs.cf.ac.uk)

The *Provenance* project commits to collaborate with other working groups on the creation and management of any research inventories and roadmaps.

Specifically, the project commits to contribute to the AgentLink roadmap (coordinated by Michael Luck from Southampton).

6   Task 6: Indicators and impact assessment

(Contact: John Ibbotson, john_ibbotson@uk.ibm.com)

The *Provenance* project commits to providing a working document describing and managing the market and technology indicators appropriate for the *Provenance* project. To this end, John Ibbotson is member of the committee working on these issues. Guildelines issued by the committee will be instantiated for *Provenance*.

7   Task 7: Training activities

(Contact: Luc Moreau, L.Moreau@ecs.soton.ac.uk)

The *Provenance* project commits to providing training activities associated with project deliverables. Specifically, we will provide specific and generic training:

1. We aim to organise some training for the DLR Tent system and its extensions that are related to provenance. Such a training would be specifically tailored for customers of the Tent system.

2. The *Provenance* project volunteers for a summer school topic on provenance and/or tutorial in appropriate events. We aim to prepare some general material on provenance, its principles and uses.   The training material would make use of multiple media, including documents, animations or videos.

We anticipate that such material will begin to be available in October 2005, after the project has produced its first architecture specification. Preliminary discussions with Thierry Priol (CoreGrid) indicated that our dissemination and training activities could take place in the context of CoreGrid events. We will seek to concretise days for such training as the calendar of events firms up. We will also seek to contribute provenance-related material to the CoreGrid newsletter.