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## **Summary**

This document contains the mid-term collaboration deliverable for the PROVENANCE project.

***PROVENANCE***

Enabling and Supporting Provenance in Grids for Complex Problems  
511085

Contract Number:

**Members of the PROVENANCE consortium:**

IBM United Kingdom Limited	United Kingdom
University of Southampton	United Kingdom
University of Wales, Cardiff	United Kingdom
Deutsches Zentrum für Luft- und Raumfahrt s.V.	Germany
Universitat Politecnica de Catalunya	Spain
Magyar Tudományos Akadémia Számítástechnikai és Automatizálási Kutató Intézet	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. For each task, we revisit our plan, discuss our progress, and review concrete activities.

## 1 Task 1: Exploitation of synergies / technical concertation

(Contact: Steven Willmott, [steve@lsi.upc.es](mailto: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. Specifically, the project is involved in TG6 (Security) and TG7 (Semantic Grid), and also follows the activities of TG1 (Architecture).

Specific Activities:

- 31/5/2005--2/6/2005: *EGTD05, Brussels*
  - Participants: Luc Moreau and Victor Tan
    - Participation Security TG6 presentation of Provenance by Victor Tan: [http://bscw.scai.fraunhofer.de/bscw/bscw.cgi/d25243/2005-06-02\\_TG6\\_Provenance.ppt](http://bscw.scai.fraunhofer.de/bscw/bscw.cgi/d25243/2005-06-02_TG6_Provenance.ppt):
    - Participation to TG1 Grid Architecture
    - Participation to TG7 Semantic Grid
- 15/9/2004--17/9/2004: European Grid technology Days, Brussels
  - Participants: Andreas Schreiber
    - Participation TG8 Business Services and Workflow
    - Participation TG3 Distributed collaborations
- 15/9/2004--17/9/2004: *European Grid technology Days, Project Launch and Concertation, Brussels*
  - Participants: Steven Willmott
    - Participation Security TG7: Semantic Grid
    - Participation to TG1 Grid Architecture
- Contributions to Semantic Grid TFG Working group via the Group Email reflector
- Mar - Aug, 2005: TG7 Input for Initial Working Group Deliverable
  - Participants: Steven Willmott, comments from Omer Rana
  - Input document  
[http://twiki.gridprovenance.org/pub/Restricted/CollaborationTask1/provenance\\_responses\\_tg7.sxw](http://twiki.gridprovenance.org/pub/Restricted/CollaborationTask1/provenance_responses_tg7.sxw).
- 3/7/05-8/7/05: *Dagstuhl Semantic Grid Seminar* (TG7 activity)

- Participants: Luc Moreau and Omer Rana (presented work relating provenance to issues of trust)

## **2 Task 2: Joint fora for exchange and dissemination**

(Contact: Steven Willmott, [steve@lsi.upc.es](mailto: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 CoreGRID.

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.

Specific activity:

- Planning of Provenance workshop, likely to be in Chicago, Spring 2006.

## **3 Task 3: Co-ordination of standardisation efforts**

(Contact: Luc Moreau, [L.Moreau@ecs.soton.ac.uk](mailto: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 has a representative (Luc Moreau) on the proposed “European GRID Standardisation Strategy Group”, and has contributed to the definition of the group's charter, and filled COPRAS questionnaire.

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 have proactively interacted with the projects SIMDAT, disseminating the ideas of provenance, an activity shared with TG6 (security).

*Provenance* has approached other EU project to capture their requirements through a provenance questionnaire from which we have been inferring user and technical requirements in February 2005.

#### Specific Activities:

- 31/5/2005--2/6/2005: *EGTD05, Brussels*
  - Participants: Luc Moreau and Victor Tan
    - Participation Security TG6 presentation of Provenance by Victor Tan: [http://bscw.scai.fraunhofer.de/bscw/bscw.cgi/d25243/2005-06-02\\_TG6\\_Provenance.ppt](http://bscw.scai.fraunhofer.de/bscw/bscw.cgi/d25243/2005-06-02_TG6_Provenance.ppt):
    - Participation to Collaboration on Standards
    - Participation meeting Task 3: Coordination of standardisation efforts
- Teleconferences on standardisation, training
- Face to face meeting, Aachen, participant: Luc Moreau
- Filled COPRAS questionnaire
- Requirement capture: the following projects contributed: eDiamond project , Healthcare and Life Sciences Framework, CombeChem, myGrid, GENSS, Traffic Management Application (K-WFGrid project), DataMiningGrid, UniGridS and Diligent
- 06/05/2005: *EU Provenance-SIMDAT*, Southampton, UK
  - Participants: Luc Moreau, Simon Miles, Liming Chen, John Ibbotson (IBM)
  - Minutes of meeting appear on IST Grid collaboration BSCW: <http://bscw.scai.fraunhofer.de/bscw/bscw.cgi/0/22506>

## 4 Task 4: Repository of reference implementations and Grid middleware

(Contact: John Ibbotson, [john\\_ibbotson@uk.ibm.com](mailto: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](mailto: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 has contributed to the AgentLink roadmap (coordinated by Michael Luck from Southampton).

Specific Activities:

- Submission of Slides to "CoreGrid" Technology Roadmap (activity led by Wolfgang Ziegler) by Omer Rana
- Contribution to AgentLink roadmap by Luc Moreau

## 6 Task 6: Indicators and impact assessment

(Contact: John Ibbotson, [john\\_ibbotson@uk.ibm.com](mailto: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. Guidelines issued by the committee will be instantiated for *Provenance*.

Specific Activities:

- 15/9/2004--17/9/2004: *European Grid technology Days, Project Launch and Concertation, Brussels*
  - Participant: John Ibbotson
- Contribution to CT6: Indicators and Impact Assessment Working Group
  - Participant: John Ibbotson

## 7 Task 7: Training activities

(Contact: Luc Moreau, [L.Moreau@ecs.soton.ac.uk](mailto: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.

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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.

### Specific Activities:

- 13/10/2005: Luc Moreau, Presentation on [Provenance](#) Activity and Expected Architecture, and Envisioned Tools, Sophia-Antipolis, CoreGrid workshop on the Use of Open Middleware for the Grids, [GRIDs@Work](#) week.

## **8 Other relevant collaboration activities**

- 20-23/7/05: *SOCA*: collaboration with Argonne National Laboratory and University of Chicago
  - Participants: Luc Moreau, Paul Groth, Simon Miles
- Jan - Aug, 2005: Ongoing collaboration with Hospital St. Pau, Barcelona, Spain
  - Joint work on organ transplant management application
  - regular interproject meetings with HSP lead Carrel FIS project.
- 22/7/05: *Mammogrid and CERN collaboration discussion*
  - Participants: Omer Rana, Richard [McClatchey](#) (UWE/CERN), Tony Solomonides (UWE), Hafiz Farooq (COMTEC, Japan)