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GridCOMP

**Grid programming with COMPONENTS: an advanced component platform
for an effective invisible grid**

STREP Project

Advanced Grid Technologies, Systems and Services

D.COL.1&2 – Collaboration plan and report for contribution to Task 1 to 5

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Summary

A draft of Collaboration Plan from the individual project perspective and including the commitment for contribution to collaborative task 1 to 5 is here described.

- Task 1: Exploitation of synergies/technical concertation
- Task 2: Joint Fora for exchange & dissemination
- Task 3: Co-ordination of standardisation efforts
- Task 4: Technical Inventory and Information Service
- Task 5: Indicators and impact assessment

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1 Introduction

The continuation of the specific liaison activities in Unit D3 was uncertain during the first six-month of the project, therefore the start of the WP7 tasks were delayed. However, since the EC confirmed the continuation of these activities at the beginning of 2007 and as an EC Collaboration meeting took place on 27 March 2007 confirming the tasks and their leaders, we are now able to provide deliverable D.COL.01.

This Collaboration Plan deals with the liaison and cooperation activities with other IST projects under the WP2004/2005 Strategic Objective “Grid-based systems for complex problems” and the WP2006/2007 Strategic Objective “Advanced Grid Technologies, Systems and Services”. These liaisons activities and cooperation with the other Grid projects aim at exploiting synergy between the projects and increasing the impact of the IST initiative. This deliverable provides a draft description of effort, measures taken and planning of the Collaboration tasks within Workpackage 7 of the GridCOMP project.

The Grid-related projects work in different ways on various aspects and technological levels of the Next Generation Grid. In order to avoid duplication of efforts and to better coordinate the activities, all FP6 projects comprise a dedicated workpackage to manage collaboration with the other projects. Together with the European Commission, periodic concertation events are organised. One is having taken place in September 2006 and the last one in March 2007. These concertation events are major synchronisation points of the collaboration. The outcomes of these events provide reconciled work plans for the collaboration tasks, as well as documentation of the approach taken. This is presented in this deliverable.

2 Liaison and cooperation tasks

GridCOMP project participated to the EC workshop on “Collaboration activities and Concertation meeting preparation” on 27 March 2007 in Brussels. Many Grid project representatives were gathered and had the opportunity to interact with each other.

Thus GridCOMP is in contact with projects such as XTREEMOS, AKOGRIMO, 3S, SIMDAT, NEXTGRID, BRIDGE, BEinGRID, Challengers, NESSIGRID, ETICS, Qualipso, as well as OMII China. GridCOMP is also in liaison with EU projects such as CoreGRID, Grid@Asia, EchoGRID and the OW2 association. The project is willing to cooperate with all interested projects. Moreover, discussions with W3C and ETSI have been initiated as well to support standardisation efforts in the project. Following the outcome of the EC meeting on March 27, the activities of the five collaboration tasks are presented below.

2.1 Task 1: Exploitation of synergies/technical concertation

The goal of this task is to exchange information and exploit synergies among the work developed by the projects funded under FP6 relevant to the Grid activity.

Several actions have been taken in cooperation with other EU projects and we plan to carry on our efforts to develop further collaborations with these projects.

GridCOMP partners organised in collaboration with the CoreGRID NoE (www.coregrid.net) three meetings on 28-29 November 2006:

- ProActive and GCM User Group meeting
- ProActive and GCM Tutorials
- Hands-On Grid Programming at GRIDS@Work meeting

GridCOMP members also participated on 11-12 December 2006 to an event organised by the EU funded project Grid@Asia (www.gridatasia.net). For both meetings a large audience was present.

In addition, collaboration with the EchoGRID EU project is underway and will ensure an increasing cooperation with the Chinese research community. Indeed, EchoGRID organised a meeting on 24-27 April 2007 in Beijing China. The INRIA partner participated to this event and gave a presentation on GCM.

Furthermore, Bruno Le Dantec from ERCIM, contacted Clemens-August Thole, from the SIMDAT EU funded project, who is in charge of the “Technical concertation” task. There are 9 technical groups (TG) composing this collaborative task.

TG1: Grid architecture

TG2: Ontologies

TG3: Workflow

TG4: Fabric monitoring

TG5: Data management

TG6: Security

TG7: Business models and SLAs

TG8: Virtual organisations

TG9: Grid Portals

An update of the TG activities was presented during the EC workshop on 27 March 2007. The relevant Technical Groups in which GridCOMP can contribute will be identified and GridCOMP potential participation will be discussed and planned with the technical group leaders.

2.2 Task 2: Joint Fora for exchange & dissemination

This collaboration task aims at organising both “exchange between projects” and “dissemination” to the Grid community. The goal is to align the dissemination activities from the very beginning between the projects.

On 19 September 2006, the GridCOMP project was presented to the participants of the EU Grid concertation meeting in Brussels. On 20-21 September 2006, the GridCOMP representatives attended the Grid Concertation meeting organised by the AKOGRIMO project and participated to several discussions with the other project contractors.

In addition, Bruno Le Dantec from ERCIM contacted Stefan Wesner, HLRS, who was in charge of the “Joint Fora for exchange & dissemination” task to discuss GridCOMP contribution. AKOGRIMO project was in charge of this Collaboration Task 2 and has

established the EU-Grid Research portal. However, for several reasons, the portal has never really taken up. It was agreed at the EC workshop on 27 March 2007 in Brussels that the 3S project (SSA) will now be in charge of starting a new web portal using the previous one as a base.

Following this EC workshop on 27 March, it was also decided to suspend this collaboration task 2, since there is no activity currently allocated to it.

However, GridCOMP project will continue in participating to concertation meetings and event organized by the European Commission in order to exchange, share and promote the GridCOMP results.

2.3 Task 3: Co-ordination of standardisation efforts

The goal of standardization is to liaise with international standard organizations that provide solutions to the trust and security of the Grid. The coordination of standardization effort is achieved through close relationship with standardization bodies, and liaison with several EU projects. In addition to the project activity on standardisation, a joint strategy and activities with other EU funded projects will allow the increase of the project impact. Hence the GridCOMP project is actively involved in the FP6 working group on standardisation activities.

On 28 November 2006, a meeting with W3C and ETSI took place at the ETSI institute in Sophia Antipolis. Discussions with ETSI have been carried on and it is planned to have ETSI playing a major role in the promotion and dissemination of GridCOMP standards in order to ensure the international impact of GridCOMP achievements.

Moreover, Bruno Le Dantec contacted Philipp Wieder, Research Centre Juelich, who is in charge of the “Coordination of standardisation efforts” task to discuss GridCOMP contribution. Hence in the first step the person responsible for standardisation collaboration in GridCOMP, in our case Denis Caromel the Scientific Coordinator becomes the contact point for GridCOMP at the Grid Standards Coordination Group. Denis Caromel has thus been registered into the gscg@nextgrid.org mailing list and got a BSCW account. In the second step, Philipp Wieder will circulate information about plans and achievements within the Grid Standards Coordination Group.

Furthermore, GridCOMP via INRIA has already collaborated with several EU projects such as g-Eclipse, AKOGRIMO, QosCosGrid to initiate Grid discussions. These contacts will be carried on further since collaboration with other EU projects ensures the emergence of research results on a global scale and durable technology solution implementation for standardization.

In addition to those three projects, we are also expecting cooperation with other relevant groups, such as the OW2 Consortium.

2.4 Task 4: Technical Inventory and Information Service

The implementation of a repository is being discussed with several contributors. The plan is to set up an inventory accessible on GridCOMP website which will be meanwhile linked to

the partner's repository web page. In a few months, GridCOMP may then have the repository directly available on its website.

Until now, the implementation of the CFI early prototype is available in the ProActive repository. All partners have access to this repository. Thus, each partner can easily access to the last developments of ProActive/GCM implementation. Furthermore, the repository has a GForge allowing bug tracking or feature requests. It is planned that most of partner developing software use GForge as tool, in order to ease collaboration between work packages.

Moreover, it is envisaged to link the GridCOMP repository to OW2 website. Indeed, since OW2 Consortium was formed through the merge of ObjectWeb and Orientware on January 1, 2007, and since GridCOMP had liaison with ObjectWeb, the possibility for a link between GridCOMP repository and OW2 will be discussed with the GridCOMP project coordinator and OW2 management board in the coming months.

In addition, Bruno Le Dantec contacted Mark Sawyer, NEXTGRID, who was in charge of this task in former Unit F2 to discuss GridCOMP contribution. However the coordination of this collaborative task 4 has recently moved from NEXTGRID to BEinGRID and it is now Kostas Kavoussanakis from the Edinburgh Parallel Computing Centre (EPCC), who is now responsible of this activity. BEinGRID project plans to send in June 2007 a policy for inclusion of other projects' output in the BEinGRID repository. Once the policy will be circulated, GridCOMP will discuss with BEinGRID its potential contribution.

2.5 Task 5: Indicators and impact assessment

Bruno Le Dantec contacted Clemens-August Thole, who is in charge of the "Indicators and impact assessment" task in order to find out the relevant indicators that would apply to GridCOMP. This task is under close monitoring of the Commission, and the Commission services in charge of Impact Assessment have finally opted for a simplified indicator collection. It was decided at the EC workshop on 27 March 2007 that this task will be finalised and stopped. The indicators will be collected for the projects resulting from Call 2 only. As GridCOMP results from Call 5, this task has come to its end.

3 Conclusion

The collaborative tasks (CT) have been confirmed by the Commission and some CT have been re-shaped according to the Grid projects' feedback and needs. Hence the collaborative task 2 on Joint Dissemination has been suspended and collaborative task 5, Indicators and Impact assessment will be terminated in the coming months and do not involve projects resulting from Call 5 such as GridCOMP any more.

The other collaborative tasks 1, 3 and 4 still continue and GridCOMP will participate to these cooperation groups since we already contacted each CT leader.

Moreover, GridCOMP will carry on its efforts to develop liaison activities with other EU funded projects and will participate to the concertation meeting on 26-27 September 2007 and other events organized by the European Commission in order to exchange, share and promote the GridCOMP results.