

# D6.4.4

## Project Collaboration Plan PC3

Version 1.1



### WP 6.4 Collaboration

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**Context**

<b>Activity 6</b>	<b>This activity is built from all workpackages that represent the external interface of the Akogrimo project to other research projects within the unit and relevant initiatives but also to industry and community at large</b>
<b>WP 6.4</b>	<b>This collaboration work package 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. Where appropriate, other relevant IST Grid related projects may be involved on a case by case basis as appropriate and agreed by both sides</b>

**Contributors: Based on internal reports from all WP6.4 members**

**Reviewers: Georgina Gallizo (TID)**

**Approved by: Georgina Gallizo (TID)**

<b>Version</b>	<b>Date</b>	<b>Authors</b>	<b>Sections Affected</b>
0.1	15/09/06	Stefan Wesner	Initial Version just after EGTD
0.2	02/10/06	Stefan Wesner	Updated version based on comments
1.0	11/10/06	Stefan Wesner	Final Version reflecting agreement between IP projects call2 and call5 about how to proceed with the share of responsibilities.
1.1	16/02/07	Stefan Wesner	New version detailing more the concrete contributions to the collaboration process rather than being solely focused on the bi-lateral collaboration

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# 1. Summary

This document aims to detail the contribution of Akogrimo to the collaboration process. This means that this document is written from the Akogrimo perspective and the indicated relations to other projects must be seen as proposed by Akogrimo and needs further discussion and agreements. Basically this document can be seen as a first step towards concretization of the only vaguely defined contribution of Akogrimo and contains initial ideas as discussed in the concertation events in the past.

This document is structured along two dimensions. First of all the document describes the contribution of the Akogrimo project the different collaboration tasks and technical group on a group per group basis and is concluded with descriptions of the resulting bi-lateral collaborations with projects of the unit and also other projects. The document is concluded with an initial assessment for potential collaboration points with projects from call5.

The table below summarizes the major contribution from Akogrimo to the collaboration activities:

Collaboration Task	Short Description
Task 1 Technical Concertation	<p>TWG1: A document comparing and contrasting the architectures of NextGRID, Akogrimo and SIMDAT has been developed. A further Architecture Whitepaper is in development and will be discussed at the next concertation meeting.</p> <p>TWG3: Task leadership, joint publication across projects and SLA workshop at eChallenges06</p> <p>TWG6: Provision of security viewpoints from the network viewpoint. The work of task 6.4 could reach an consensus across the projects and is seen to be finalised.</p>
Task 2 Joint Forums for Exchange and Dissemination	The EGTD event has been organised and performed successfully and also the portal has been set-up and is used by an initial set of projects.
Task 3 Standardization	Liason with the COPRAS activity, integration of the new projects from call 5 and support for the launch of the ETSI group on Grids.
Task 6 Indicators and Impact Assessment	Akogrimo is one of the members of the Core group and has been one of the key contributors to the definition of the indicators and impact assessment measures. The data collection needed to perform the analysis has been done by Akogrimo and delivered to the task leader and supported the analysis and presentation of the resulting data

## **2. Collaboration Tasks**

### **2.1. Task1: Exploitation of Synergies/Technical Concertation**

**Akogrimo contact:** Stefan Wesner, HLRS

Akogrimo has focused its contributions so far to 3 of the technical groups. The major contributions have been done to the TG1: Architecture, TG3: Business processes and SLAs and TG6 Trust and Security.

#### **2.1.1. TWG1 Architecture**

**Akogrimo contact:** Stefan Wesner, HLRS

NTUA and HLRS have proposed the process of realising a document that outlines the different architectural choices and proposed solutions of the major architecture focused projects in the collaboration process. The initial version of this document was limited to a comparison between the NextGrid and Akogrimo architectural components and a proposed integration model utilising the fact that NTUA and HLRS is participating on both projects. The next step has been the extension of this document with the viewpoint from SIMDAT realised by IT-Innovation. At this moment the process have been opened to other interested projects and is under further developments.

#### **2.1.2. TWG3 Business Processes and SLAs**

**Akogrimo contact and Task Leader:** Pierluigi Ritrovato, CRMPA

Results of this group has been so far limited to provide an overview of existing solutions and approaches and to document them in the form of a whitepaper. As a result joint publications of workflow approaches between NextGrid and Akogrimo could be realised and also an SLA workshop held at eChallenges06 with contributions from several projects including NextGrid, GridEcon, BREIN and Akogrimo has been organised. Next steps are a TWG3 meeting in February 2007

#### **2.1.3. TWG6 Trust & Security**

**Akogrimo contact:** David Lutz, Ruth del Campo RUS

The contribution of Akogrimo was targeted on Network Security. The discussions within the grouped converged and could be closed. The discussion however revealed that there are potential conflicts to be solved between network and web service level security and that this discussion should be opened to other projects and not kept internally to Akogrimo. TrustCoM and NextGrid have supported the idea of opening a new taks on vertical integration issues for security.

### **2.2. Task 2: Joint Forums for Exchange and Dissemination**

**Akogrimo contact:** Aenne Löhden, Stefan Wesner, HLRS

The major achievements have been the set-up of the EU grid research portal (<http://www.eu-gridresearch.org>) and the support for the other project to contribute to the portal and the organization of the EGTD event 2006.

All details can be found in the corresponding deliverable D6.4.4 CPC-T2

## **2.3. Task 3: Coordination of Standardization efforts**

**Akogrimo contact and co-chair:** Julian Gallop, CCLRC

Akogrimo as co-chair of the group has continued to support the activities of the Grid Standards Co-ordination Group. The focus of the group has been maintained unchanged on (i) achieving and maintaining **information** about standards relevant to member projects, (ii) discussing a standardization **strategy** for the member projects, and (iii) cultivating **collaboration** with standardization bodies, and other stakeholders and interest groups active in standardization. In the reported period the group focused on the dissemination of the standards-related information and on collaboration.

This includes collaboration with the COPRAS projects and its *Clustered Standardization Action Plan for the GRID-Projects organized in the GRID Standardization Coordination Group (GSCG)*. Furthermore Akogrimo has contributed to presentation and the EGTD06 and also the meetings of ETSI in this period.

The GSCG meets regularly by telephone and face-to-face, and maintains a mailing list provided by NextGrid.

## **2.4. Task 4: Technical Inventory and Information Service**

This task is currently suspended.

## **2.5. Task 5: Collaboration on Research Inventory and Roadmaps**

It turned out to be very difficult for Akogrimo to contribute to this task as Akogrimo has not a specific roadmap activity planned. Akogrimo contribution has been limited to review and comment the roadmaps of projects better positioned to contribute to this task.

## **2.6. Task 6: Indicators and Impact Assessment**

**Akogrimo contact:** Georgina Gallizo, TID

Akogrimo is one of the members of the Core group and has been one of the key contributors to the definition of the indicators and impact assessment measures. The data collection needed to perform the analysis has been done by Akogrimo and delivered to the task leader and supported the analysis and presentation of the resulting data.

## **2.7. Task 7: Training Activities**

**Akogrimo contact:** Víctor Villagra, UPM



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Akogrimo has contributed to the organised training events such as the CoreGrid Summer school 2006 (CSS06) in Bonn, Germany, with an outline of the SLA solution performed in particular with the integration of the network layer in the provisioning process.

Furthermore Akogrimo has performed a public training event that has been announced to other projects in the collaboration process.

### 3. Identified Collaboration Potential with other Initiatives

In the last period since the delivery of PC2 several identified collaborations with other projects could be intensified and some had to be stopped as no real interaction could be established. The following sections outline the status of this collaborations and indicated (if possible) which technical group has lead to identify the collaboration potential.

#### 3.1. NextGrid

The collaboration with NextGrid could be partially extended and for some topics the collaboration could not be further developed. Beside the already identified collaboration areas Service Discovery has been identified as an additional potential area.

##### 3.1.1. Architecture

The planned collaboration on this topic could be realised and as a result both projects took the initiative to start the process of the production of a joint white paper comparing the major decision for the architecture and aiming to provide a complete view and discuss a potential merge of the approaches.

Nature of planned collaboration	Joint White Paper
Status within Akogrimo	Approved
Actions taken toward partner project	Draft version of White Paper available
Feedback from partner project	Accepted
Status of Collaboration	Active
Collaboration Established Through	TG1 Basic Architecture and through partner overlap (NTUA, USTUTT-HLRS) between both projects

##### 3.1.2. Value Chains, Business Modelling and Service Level Agreements

Beside the collaboration had been identified to be mutual beneficial the collaboration seems not to be realisable due to IPR problems from some of the partners that contributed to the NextGrid deliverables around this topics.

Nature of planned collaboration	Exchange of documents, a joint workshop and joint publications
Status within Akogrimo	Approved.
Actions taken toward partner project	Proposed and requested access to internal documents

Feedback from partner project	Not possible due to IPR problems
Status of collaboration	Paused
Collaboration Established Through	Akogrimo EPM and NextGrid Project Management Team

### 3.1.3. Workflow Modelling and Enactment

The collaboration on workflow aspects has been intensified and has resulted in a joint publication where the approaches are compared. Both projects use similar tools and have established exchange of experiences on developer level

Nature of planned collaboration	Alignment of usage of tools and exchange of ideas
Status within Akogrimo	Approved.
Performed Actions	Joint publication and alignment of tools
Status of collaboration	Established.
Collaboration Established Through	TG3 and DATAMAT

### 3.1.4. Standardization

If collaboration can be established in the topics mentioned above the goal is support each other in efforts aiming at standardization of the solutions.

Nature of planned collaboration	Alignment of activities
Status within Akogrimo	Approved in General but need to be re-discussed on case by case basis
Performed Actions	Presentation of SLA approaches at the last OGF meeting in Washington
Status of collaboration	Established on general level through CT3. At the moment collaboration in the area of SLA Management within the GRAAP-WG

### 3.1.5. Service Discovery

The focus of Akogrimo in Service Discovery is on identifying local available resources. The currently realised Service Discovery for Grid Services are not in the focus of the Akogrimo developments. In consequence it could be promising to reuse more sophisticated discovery

concepts and implementations originating from other projects. The NextGrid Service Discovery system might be a candidate for this.

Nature of planned collaboration	Usage of Reference Implementation
Status within Akogrimo	Approved
Performed Actions	Exchange of ideas and discussion with NEC responsible for this component within NextGrid
Status of collaboration	Initially established but put on hold by Akogrimo until the final demonstrator is defined and the new scenarios are analysed if such a component is needed.

### 3.2. K-WF Grid

Collaboration between Akogrimo and K-WF Grid could be in particular in the area of investigation of state of the art in workflows and also on how the developed solutions and concepts in K-WF Grid could be beneficial for Akogrimo in their goal in defining context aware workflow enactment.

Initial discussion showed that potentially collaboration would be beneficial but would require a decent effort on both sides. For this reason the collaboration has been seen as not feasible.

Nature of planned collaboration	Exchange of documents, exchange between technical staff, joint publications. Potentially in the long term also software
Status within Akogrimo	Approved
Actions taken toward partner project	Initial information exchange planned to be done at eChallenges2005
Feedback from partner project	-
Status of collaboration	Not feasible due to time and resource constraints

### 3.3. UNIGRIDS

Currently Unicore 6.0 (Unicore/GS) is validated by some partners. The usage of UNICORE 6.0 as part of the demonstrator looks not realistic due to time and resource constraints.

Nature of planned collaboration	Use of software
Status within Akogrimo	Shifted to cycle 2

Actions taken toward partner project	None
Status of collaboration	Not established

### 3.4. ELeGI

The collaboration could not be further intensified.

Nature of planned collaboration	Use of software
Status within Akogrimo	Internally approved
Status of collaboration	Established in an informal way through partner overlap (ELeGI is coordinated by ATOSOrigin)

### 3.5. TrustCoM

The most promising collaboration potential has been identified by considering some of the reference implementations of the TrustCoM architecture for the Akogrimo demonstrator.

Nature of planned collaboration	Use of selected reference implementations such as the NotificationBroker, Reputation System
Status within Akogrimo	Approved
Actions taken toward partner project	Informal exchange of ideas and presentation of concepts
Feedback from partner project	Wait for the official release of the components and IPR constraints
Status of collaboration	Progressing

### 3.6. DAIDALOS

The collaboration could be further intensified and a joint booth at IST2006 could be realised.

Nature of planned collaboration	Exchange of documents, infrastructure, software and joint demonstrations and publications
Status within Akogrimo	Internally approved
Actions taken toward partner project	None (Was initiated by DAIDALOS)

Feedback from partner project	Officially approved
Status of collaboration	Successfully established

### 3.7. Adaptive Services Grid (ASG)

As collaboration is not a planned activity within ASG the collaboration could not be realised. Akogrimo will analyse the software to be released in Spring 2007 for potential re-use..

Nature of planned collaboration	Exchange of documents
Status within Akogrimo	Approved
Status of collaboration	Terminated

## 4. Initial Analysis of potential collaboration with Call5 projects

At the Grid concertation days 2006 in September a potential for collaboration from the Akogrimo viewpoint with the following projects has been identified

Project	Nature of Collaboration
BEinGRID	<p>If more details are available on the nature of the experiments and the nature and conditions for usage of the planned repository are defined it is planned to discuss potential collaboration with BEinGRID.</p> <p>Potential collaboration points could be the provision of reference implementations.</p>
GridEcon	<p>Potential collaboration has been identified to provide the work of WP3.2 as baseline input for GridEcon and also the shared objectives to look into business level SLAs constitutes a good potential for further collaboration. The planned TG on Grid Business Models lead by GridEcon will be the mean of collaboration.</p>
BREIN	<p>Akogrimo aims to provide its architecture and reference implementations as baseline for BREIN. As the coordination and technical management of this projects is fulfilled by the same organisations the collaboration will established in a natural way.</p>

In general it can be stated that the collaboration between these new projects is likely more from Akogrimo towards the new projects as vice versa.