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TABLE OF CONTENT

1. Executive Summary 6
2. Inter-Project Collaborations 7
   2.1 Future Collaboration Plans 7
3. Concertation Activity 8
   3.1 Proposal for Additional Technical Concertation 8
   3.2 Concertation Meeting 8
4. References to Projects 9
5. Collaboration Details, PM1-PM12, by Partner 10
   5.1 BOC 10
   5.2 BSC 10
   5.3 CRMPA 10
   5.4 ED 11
   5.5 EMIC 11
   5.6 PSNC 12
   5.7 TID 12
   5.8 UMAN 12
   5.9 USTUTT-HLRS 13

LIST OF TABLES

Table 1: PM1-PM12 Project Collaborations 7
Table 2: Chairmanship of Concertation Groups 8

ABBREVIATIONS

Abbreviation	Expansion
CT	Collaboration Task
TWG	Technical Working Group

1. Executive Summary

This document summarizes the collaborations that have occurred over the past 12 months and describes the plan for further collaboration over the coming year. This includes both formal concertation actions and specific project-to-project collaboration actions.

2.Inter-Project Collaborations

In the past year, the BREIN project has undergone collaborations with the projects listed in **Table 1** (see Section 4 for a description of each project listed). "Input" collaborations are ones where the focus of the collaboration has been on the BREIN project consuming one or more outputs of the other project. "Bi-Directional" collaborations involve direct interaction and work towards common goals. "Output" collaborations (none currently present) involve the focus of the collaboration being primarily on the other project consuming one or more outputs of BREIN. "Contact" indicates that there has been some communication between the project and BREIN beyond an assessment in WP2.1, but the exact mode of collaboration has yet to be resolved to one of the other kinds due to contacts being at an early stage.

Table 1: PM1-PM12 Project Collaborations

Project	Collaboration Mode	Responsible Partner(s)
Akogrimo	Input	HLRS
AsIsKnown	Bi-Directional[1]	BOC
AssessGRID	Contact	BOC
A-Ware	Contact	UMAN
BEinGRID	Bi-Directional[2]	HLRS
EGEE	Contact	BSC
GridECON	Contact	BOC
NESSI	Bi-Directional[3]	TID, CRMPA, DATAMAT
NESSI-GRID	Contact	TID
NextGrid	Input	HLRS, IT Innovation
OMII-Europe	Contact	UMAN
OntoGrid	Input	UMAN
TrustCoM	Input	HLRS, EMIC

2.1 Future Collaboration Plans

We plan to deepen those collaborations where we currently just have contacts, with a particular aim of consuming software components (especially middleware) from one or more of them. The selection of components (which in turn drives the collaborations fostered) is the responsibility of workpackages in Activity 5.

See also the plans for Concertation in §3.2.

[1] The collaboration with AsIsKnown involves exchange of components for demonstration.

[2] The collaboration with BEinGRID involves sharing of expertise, and it is planned to explore what components will be sharable.

[3] The collaboration with NESSI involves joint work in the areas of business process management, service oriented infrastructure and service engineering.

3.Concertation Activity

The BREIN project is currently chairing or co-chairing the following technical working groups and collaboration tasks:

Table 2: Chairmanship of Concertation Groups

Group	Person, Partner Organization
TWG2: Ontologies	Ioannis Kotsiopoulos, UMAN
TWG3: Workflows & SLAs	Bastian Koller, USTUTT-HLRS Pierluigi Ritrovato, CRMPA
TWG4: Monitoring & Fabric Management	Jarek Nabrzyski, PSNC
TWG5: Security	Mike Surridge, IT Innocation
TWG7: Business Modelling & Economics	Steve Taylor, IT Innovation
CT2: Joint Dissemination Fora	Stefan Wesner, HLRS
CT7: Training	Rosa Badia, BSC

Additional collaboration is ongoing in TWG1: Architecture, and multiple partners are involved in TWG2 (BSC), TWG3 (BOC, DATAMAT) and TWG5 (EMIC).

3.1 Proposal for Additional Technical Concertation

The BREIN project is planning to propose an additional TWG on Agents, to be lead by someone nominated by UHOH and/or MTA. We feel that this is likely to be productive because the level of interaction between different groups working on Agents within Europe is currently usually just at the level of attending common conferences or working on shared projects, rather than the deeper forms of collaboration that are more commonplace within the Grid community (e.g., the Open Grid Forum). By providing a concertation process for different groups working on Agents to communicate, we feel that the level of collaboration within that area can be greatly advanced.

3.2 Concertation Meeting

By agreement with the Commission and the other Projects in the programme, the BREIN project has been asked to organize a Concertation Event on the 22nd and 23rd of September, 2008. This event will be held in Brussels at the Diamant Centre and is organized in collaboration with the XtreemOS project.

4.References to Projects

Akogrimo

Full Title: Access to Knowledge through the Grid in a mobile World
Website: http://www.mobilegrids.org/

AsIsKnown

Full Title: A semantic-based knowledge flow system for the European home textiles industry
Website: http://www.asisknown.org/

AssessGRID

Full Title: Advanced Risk Assessment & Management for Trustable Grids
Website: http://www.assessgrid.eu/

A-Ware

Full Title: An easy Way to Access grid REsources
Website: http://www.a-ware-project.eu/

BEinGRID

Full Title: Business Experiments in GRID
Website: http://www.beingrid.com/

EGEE

Full Title: Enabling Grids for E-sciencE
Website: http://www.eu-egee.org/

GridECON

Full Title: Grid Economics and Business Models
Website: http://www.gridecon.eu/

NESSI

Full Title: Networked European Software & Services Initiative
Website: http://www.nessi-europe.com/ (shared with NESSI-GRID)

NESSI-GRID

Full Title: Networked European Software & Services Initiative – Grid
Website: http://www.nessi-europe.com/ (shared with NESSI)

NextGrid

Full Title: Architecture for Next Generation Grids
Website: http://www.nextgrid.org/

OMII-Europe

Full Title: Open Middleware Infrastructure Institute for Europe
Website: http://omii-europe.org/

OntoGrid

Full Title: Paving the Way for Knowledgable Grid Services and Systems
Website: http://www.ontogrid.net/

TrustCoM

Full Title: An Environment for Trust, Security and Contact Management in B2B Collaborations
Website: http://www.eu-trustcom.com/

5.Collaboration Details, PM1-PM12, by Partner

5.1 BOC

Meetings/ Workshops	23-24 July 2007 - TG3 Meeting, Rome 26 September 2007, Concertation Meeting, TG7, Brussels

5.2 BSC

Leadership of Technical Groups/ Collaboration Tasks	Chair of the Collaboration in Training Activities (CT2)
Meetings/ Workshops	Attendance to the Collaboration Workshop, 27 March 2007 Attendance to the ESSGTD 2007, 26-27 September 2007
List of Projects Collaborated with	With a relative large number of projects (I can provide all the list of necessary) accepted in FP6 Call 2, "Grid-based systems for solving complex problems" and in Call 5 (unit F2). Projects from unit F3 also joined: EGEE, EGEE II, I-CEAGE.
Details of Collaboration	The training activities task has followed a light profile. The collaboration has been mainly in terms of helping in dissemination of training events between different projects and in co-ordination for the contribution of the different projects to the CoreGRID summerschool. Other activities has been sharing of material in repositories.

5.3 CRMPA

Leadership of Technical Groups/ Collaboration Tasks	TG3: Workflows (lead by Pierluigi Ritrovato)
Meetings/ Workshops	20-21/09/2006 - European Grid Technology Days hosted by EC in Brussels 27/03/07 – Info days – hosted by EC in Brussels 23-24/07/07 TG3 meeting (hosted at ElsagDatamant premises in Rome).
Others	NESSI
Details of Collaboration	CRMPA is member of NESSI community. In fact, CRMPA is an active member participating in several NESSI initiatives, such as the events organized by NESSI community during the first BREIN project year (e.g. during the IST

	’06) and, in particular, contributing to the “user services interactions” and “service oriented infrastructure” NESSI working groups. This experience can be exploited bringing BREIN results to the attention of NESSI community in order to evaluate possible chances of collaboration with other members facing similar research issues.

5.4 ED

Meetings/ Workshops	20-21 Sep 2006 – TG3 “Service Composition, SLA usage and Workflow” Meeting at the European Grid Technology Days, Brussels, Belgium. 23-24 July 2007 –TG3 “Service Composition, SLA usage and Workflow” Meeting, hosted by Engineering in Rome, Italy.
List of Projects Collaborated with	NextGRID
Details of Collaboration	Strong collaboration was performed with NextGRID project in the context of dynamic workflow modelling and management. From one side, workflow management in BREIN is conceptually founded on a service-based semantic workflow model providing the ability to compose and dynamically adapt services available in a distributed environment and orchestrate their execution. From the other one, NextGRID is offering a workflow framework based on a semantic language approach, an adaptive engine and a workflow-modelling tool that can effectively address main requirements from BREIN project. Collaboration started with information and knowledge exchange to clarify respective offer and need. Then, NextGRID workflow technology was adopted by WP4.2 in BREIN for developing a prototype component to both validate architectural concepts and evaluate underlying technology. Prototype was successfully developed and it is actually adopted in WP5.1 as the base for the initial BREIN Framework prototype development in the context of workflow management. Collaboration has been continued in order to ensure that any update in NextGRID development is received and evaluated in BREIN project. Also, BREIN is providing further update in this technology and therefore information exchange and support is needed to allow a seamless integration.

5.5 EMIC

Leadership of Technical Groups/ Collaboration Tasks	TWG5: Security

List of Projects Collaborated with	NextGRID, TrustCoM
Details of Collaboration	Build on experience of NextGRID with respect to security architecture. Build on experience of TrustCoM, adopting and extending its security model. BREIN consumes documents generated by TrustCoM, such as the TrustCoM Reference Model. Letter of intent with FP7 proposal SMILE for mutual collaboration in area of web service security

5.6 PSNC

Leadership of Technical Groups/ Collaboration Tasks	Co-Chair of TG4 Grid Monitoring and Fabric Management
Meetings/ Workshops	20-21 Sep 2006 – TG4 Meeting at the European Grid Technology Days, Brussels, Belgium 26-27.03.2007 CT1 – Exploitation of Synergies / Technical Concertation
List of Projects Collaborated with	Various FP6 projects participating in TG4 and CT1 meetings, in particular inteliGrid and QosCosGrid
Details of Collaboration	Collecting knowledge about activities and outcome of other projects Information about VO and semantic-based solutions from inteliGrid Discussing collaboration with QosCosGrid on job scheduling with reservations

5.7 TID

Meetings/ Workshops	1 March 2007 – EGEE-EELA Industry Day @ Madrid, organized by the EGEE (Enabling Grids for E-sciencE) project.
List of Projects Collaborated with	NessiGrid
Details of Collaboration	Several partners of BREIN, members of NessiGrid, are participating in the definition of the NessiGrid SRA and in the Nessi GA. At the moment, BREIN is consumer of the documents generated by NessiGrid.

5.8 UMAN

Leadership of Technical Groups/ Collaboration Tasks	TG2: Ontologies (lead by Ioannis Kotsiopoulos)
Meetings/ Workshops	15-16 Feb 2007 – *Semantic Grid Tutorial @ Manchester*, hosted by OntoGrid project at the University of Manchester.
List of Projects Collaborated with	OntoGrid
Details of Collaboration	Joint work with OntoGrid on the Grid Resource Ontology, to form part of BREIN WP3.2 output as detailed ontology of grid resources (fitting under the BREIN core ontology). Use of training and tools provided by OntoGrid.

5.9 USTUTT-HLRS

Leadership of Technical Groups/ Collaboration Tasks	CO-Chair of TG3 - Workflows & SLAs
Meetings/ Workshops	20-21 Sep 2006 – TG3 Meeting at the European Grid Technology Days, Brussels, Belgium January 2007, TG8 Meeting in St.Augustin, Germany 23-24 July 2007 – TG3 Meeting in Rome, Italy
List of Projects Collaborated with	AssessGrid, BEinGRID
Details of Collaboration	Exchange of components necessary for WS-Agreement implementations with AssessGrid and BEinGRID as basis for further SLA component developments in BREIN