



Project no. FP6-034442

GridCOMP

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

STREP Project

Advanced Grid Technologies, Systems and Services

D.DIS.01 – GridCOMP Website

Due date of deliverable: September 2006

Actual submission date: 30 March 2007

Start date of project: 1 June 2006

Duration: 30 months

Organisation name of lead contractor for this deliverable: GEIE ERCIM

Project co-funded by the European Commission within the Sixth Framework Programme (2002-2006)		
Dissemination Level		
P	Public	PU

Keyword List: Website, Flyer, General presentation
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3	08-03-2007	Draft	Marco Danelutto
4	23-03-2007	Final	Karen Marache

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Goal of this document

The goal of this document is to briefly present the structure and aim of the GridCOMP website: <http://gridcomp.ercim.org>. The website has been launched in July 2006.

It also presents the GridCOMP General Presentation and Flyer. Both are available on the website, under the Dissemination Section.

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1 GridCOMP Web Site

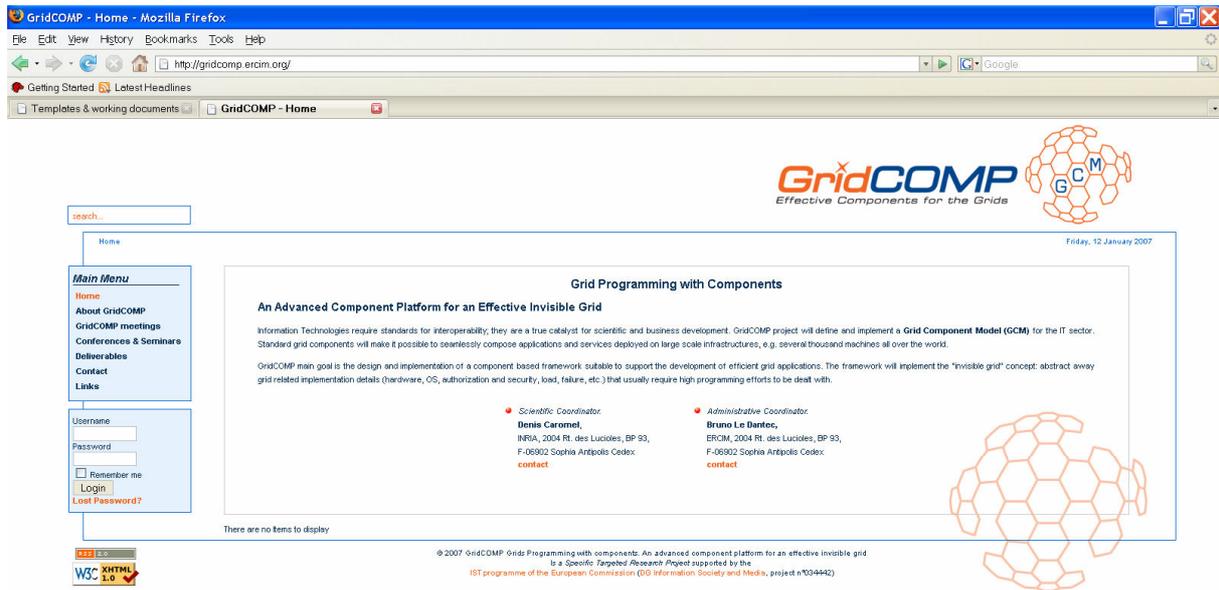
Status of GridCOMP Website

The general structure has been finalised and the content is being implemented.

Palette Website as a key support for communication

All tools and information will be accessible from the **GridCOMP Website**. The project website will be the key support for GridCOMP communication. It will provide the channels for communication both within the project and with external stakeholders. To this end it will provide a secure collaborative working area.

Homepage: <http://gridcomp.ercim.org>



GridCOMP - Home - Mozilla Firefox

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http://gridcomp.ercim.org/

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Grid Programming with Components

An Advanced Component Platform for an Effective Invisible Grid

Information Technologies require standards for interoperability; they are a true catalyst for scientific and business development. GridCOMP project will define and implement a **Grid Component Model (GCM)** for the IT sector. Standard grid components will make it possible to seamlessly compose applications and services deployed on large scale infrastructures, e.g. several thousand machines all over the world.

GridCOMP main goal is the design and implementation of a component based framework suitable to support the development of efficient grid applications. The framework will implement the "invisible grid" concept: abstract away grid related implementation details (hardware, OS, authorization and security, load, failure, etc.) that usually require high programming efforts to be dealt with.

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There are no items to display

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Downloads

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The Homepage presents the most important information on the project for external readers. It describes the mission of GridCOMP project.

About GridCOMP: Objectives and Consortium



The screenshot shows a Mozilla Firefox browser window displaying the GridCOMP website. The page title is "GridCOMP - About GridCOMP - Mozilla Firefox". The address bar shows the URL "http://gridcomp.ercim.org/content/blogcategory/5/5/". The page content is organized into several sections:

- Main Menu:** Home, About GridCOMP, Objectives, Consortium, GridCOMP meetings, Conferences & Seminars, Deliverables, Contact, Links.
- Objectives:**

The GridCOMP project will have the following objectives:

 - be able to interoperate with existing standards, such as Web Services, WSRF, Unicore, EGEE glite;
 - become a "de facto" standard for big industry and SMEs specifying and implementing all the features usually expected from an actual grid programming framework;
 - address both scientific computing and enterprise computing;
 - reach a world wide audience thanks to the involvement of non European partners from South America, Australia and China.

GridCOMP will take the Grid Component Model (GCM, **CoreGRID Network of Excellence**) as a first specification, and use the ObjectWeb ProActive Open Source implementation as a starting point. ObjectWeb ProActive Grid middleware ensures interoperability with other standards: EGEE glite, UNICORE, NorduGrid, Olobus, Web Services. Coordination with the **NESST initiative** is also a strong priority, with the involvement of ObjectWeb, Atos Origin, IBM. Expected results in the scientific domain are accelerations in developing new simulations, and as such new discoveries. The impact on the EU economy can be foreseen by analogy to the GSM standard. GSM has changed the way mobile telecommunication infrastructures were built, bringing EU at the leading edge of the technology. Similarly, GCM should stimulate the domain of IT infrastructure management and application development, reinforcing Europe leadership in the sector.
- Consortium:**

The GridCOMP Consortium gathers **11 Partners** for a period of 30 months : from 1 st June 2006 to 30 November 2008. The budget allocated by the European Commission for the GridCOMP projects amounts 1 750 000 EURO.

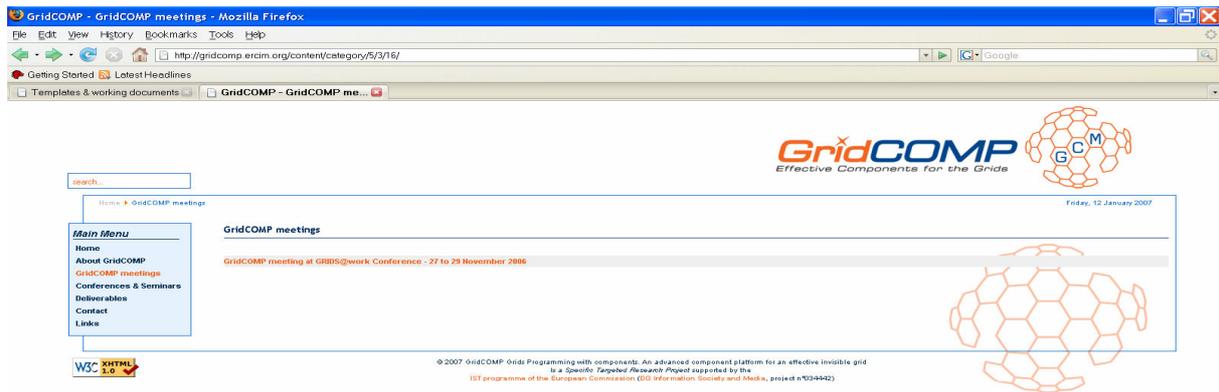


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This page presents the main objectives and impact of the project.

This page also presents all Participants in the GridCOMP Project

GridCOMP meetings:



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http://gridcomp.ercim.org/content/category/5/3/16/

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GridCOMP meetings

GridCOMP meeting at GRIDS@work Conference - 27 to 29 November 2006

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GridCOMP - GridCOMP meeting at GRIDS@work Conference - 27 to 29 November 2006 - Mozilla Firefox

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GridCOMP meeting at GRIDS@work Conference - 27 to 29 November 2006

Second GridCOMP project meeting

- 27 November 2006: GridCOMP internal meeting
- 28 November 2006: ProActive and GCM Tutorial and Hands-On Grid Programming
- 29 November 2006: ProActive and GCM User Group

at the GRIDS@work conference at ETSI Headquarters, Sophia-Antipolis (Close to Nice Airport, 27 November - 1st December 2006)

Agenda - Internal meeting - Monday 27 November 2006

- 10h00 : Coffee and welcome
- 10h30 : Administrative issues
- 11h00 : Update on ProActive and the GCM (OASIS INRIA)
- 11h30 : Update on non functional Features (Univ Pisa and CNR)
- 12h00 : Lunch
- 13h00 : Update on Environment Work (Westminster)
- 13h30 : GridSystems Use cases and Reports on first experiments
- 14h00 : ATOS Use case and report on first experiments
- 14h30 : IBM Use case and report on first experiments
- 15h00 : Discussion - Architecture of the Use Case
- 15h30 : Coffee Break
- 16h00 : Discussions - Architecture of the CP platform & activity of non EU partners
- 16h45 : Break
- 17h00 : Public session: PhD Defense, Matthieu Morel, Components for Grid Computing
- 19h00 : Adjourn

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This page presents important events and meetings in which GridCOMP is involved

Conferences & seminars:



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Conferences & Seminars

GridCOMP Conference in Australia, 29 Jan-1 Feb 2007

Australian and EU Grid Collaboration around GCM, the GridCOMP project and Gridbus

<http://www.gridbus.org/aus-eu-workshop/>

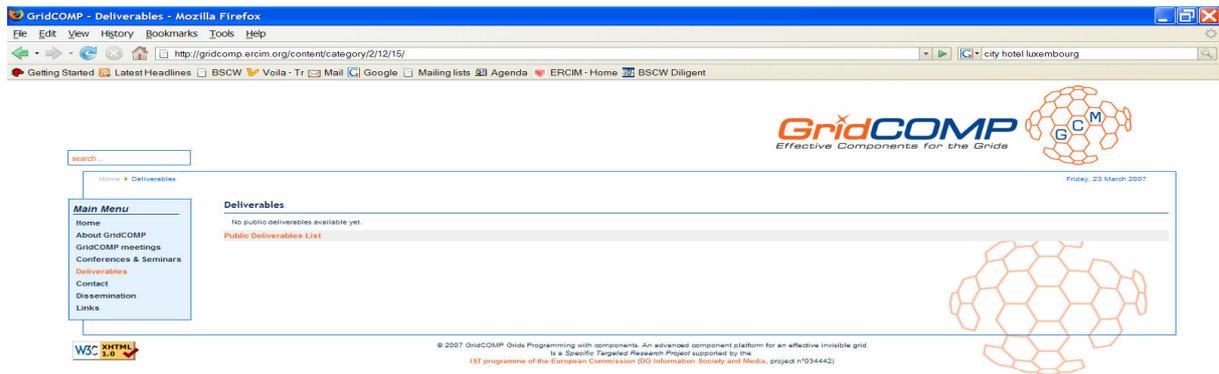
Presentations:

- [Overview of GCM \(Grid Component Model\) and the GridCOMP EU Project](#)
- Denis Caromel, INRIA - I3S CNRS - Univ. Nice, France
- [Overview of Grid Research and Gridbus Project @ Melbourne](#)
- Raj Dujya, University of Melbourne

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This page presents the most important events which GridCOMP will attend to or/and be organizing.

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Deliverables

No public deliverables available yet.

[Public Deliverables List](#)

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GridCOMP - Public Deliverables List - Mozilla Firefox

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Public Deliverables List

- D.CF1.03: Architectural design of the component framework (M12)
- D.CF1.05: CFI prototype and early documentation (M24)
- D.CF1.06: CFI tuned prototype and final documentation (manual and detailed architectural design) (M30)
- D.NFCF.01: Non functional component subsystem architectural design) (M12)
- D.GDE.02: Grid IDE early prototype (M12)
- D.GDE.03: Grid IDE prototype and early documentation (M24)
- D.GDE.04: Grid IDE tuned prototype and final documentation (manual and detailed architectural design) (M30)
- D.UC.04: Use cases: early prototypes and early documentation (M24)
- D.UC.05: Use cases: tuned prototypes and final documentation (manual and detailed architectural design) (M30)
- D.DIS.01: GridCOMP Website (M3)
- D.DIS.03: Proceedings of the first GridCOMP Workshop (M16)
- D.DIS.04: GridCOMP introductory material, slides, tutorial, sample code on the GridCOMP Website (M20)
- D.DIS.05: Proceedings of the second GridCOMP Workshop (M30)
- D.DIS.06a, b & c: Yearly and Final Plans for using and disseminating knowledge (M12, 24 & 30)
- D.COL.01: Collaboration plan from the individual project perspective including commitment for contribution to Task 1 to 5 (M4)
- D.COL.02: Collaboration report for Task 1 to 5 (M12)
- D.COL.03: Collaboration report for Task 1 to 5 (M24)

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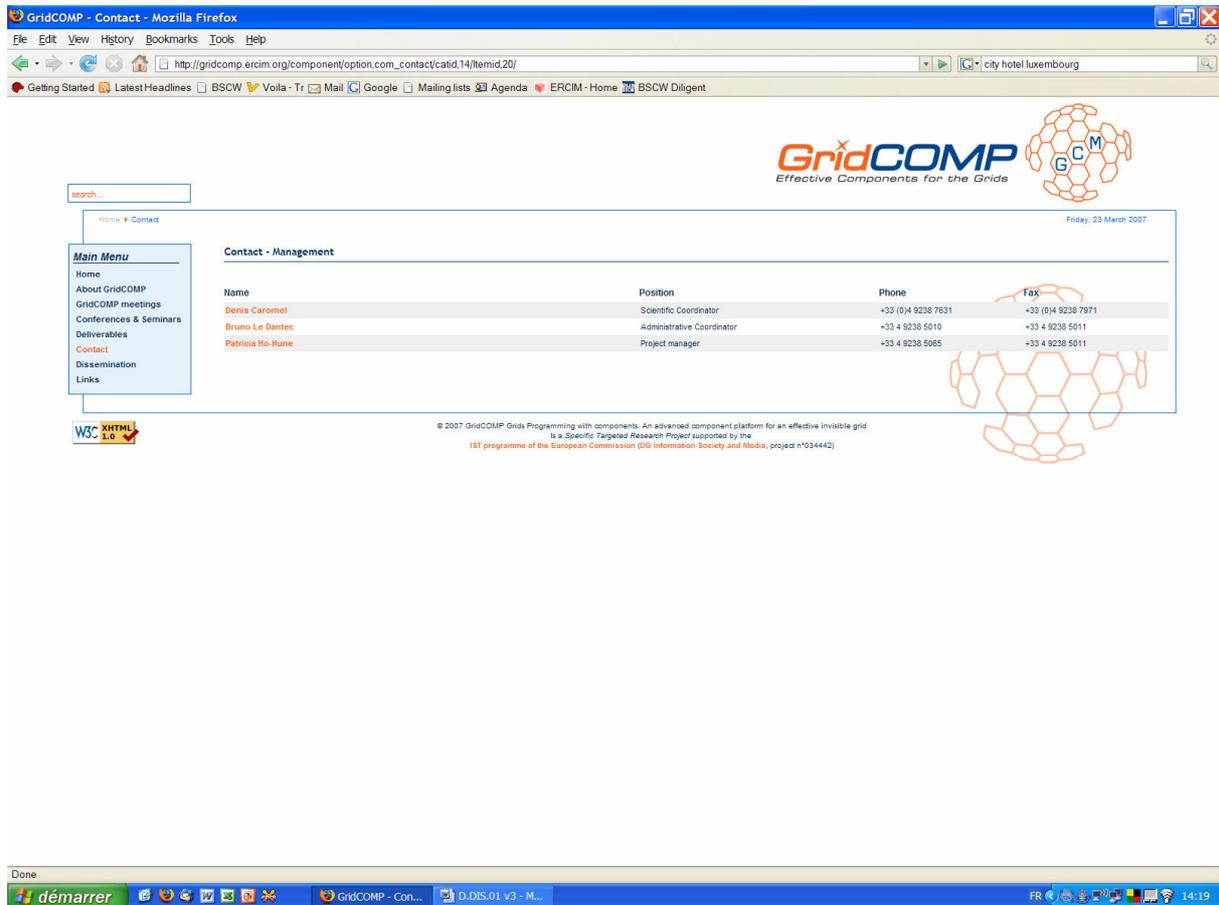
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This page makes all GridCOMP Deliverables accessible for download with a direct access to public documents and a secured access to restricted and confidential documents.

Contacts:



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http://gridcomp.ercim.org/component?option=com_contact&catid,14/Itemid,20/

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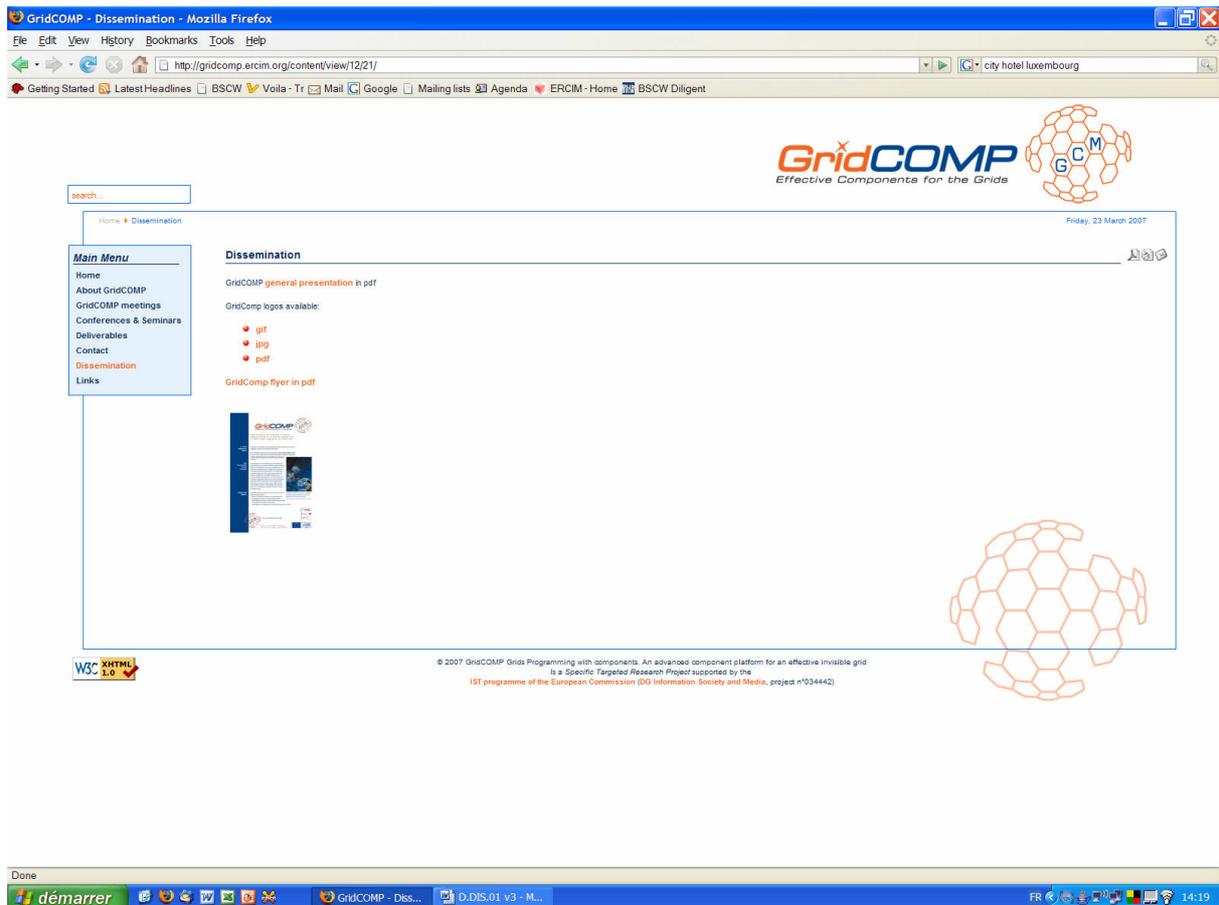
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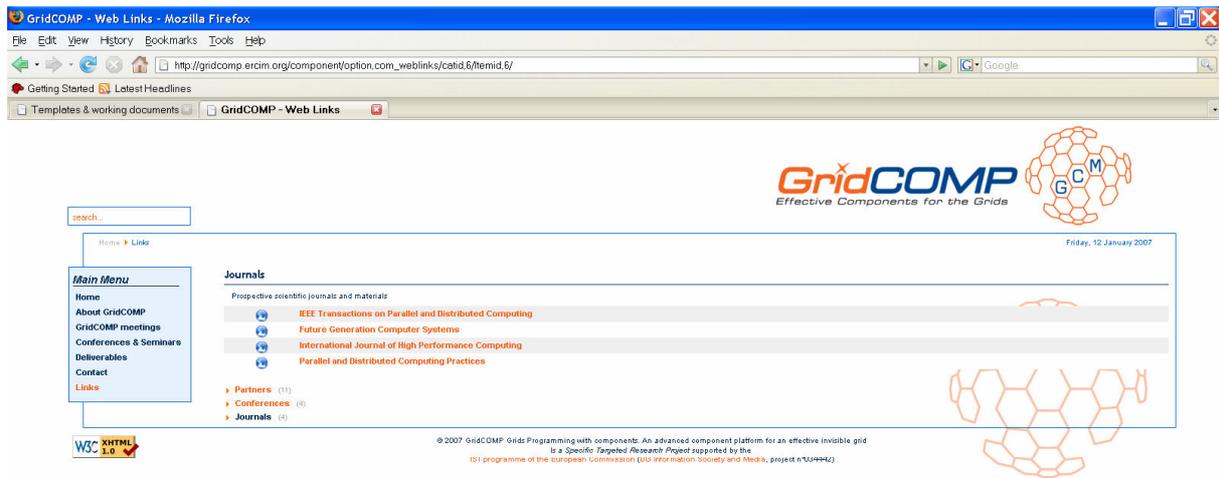
Lead contacts for the project

Dissemination



This page makes GridCOMP's logos available, and presents the GridCOMP flyer.

Links:




Links to other useful resources related to the project such as partners, conferences and journals.

2 GridCOMP General Presentation

This is a general presentation, giving the profile, the overview and the name of the partners of the project. A brief description of the workpackages is done.
The presentation will be updated while the project goes on.

Grid programming with components:
an advanced **COMP**onent platform
for an effective invisible grid



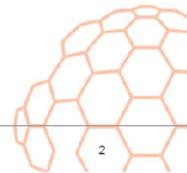
GridCOMP – General Presentation

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GridCOMP Project Profile

- **STREP - Specific Targeted Research Project**
- Project Identifier: FP6-034442
- European Commission: Advanced grid technologies, systems and services
- Start Date: 1 June 2006
- End Date: 30 November 2008
- Project co-ordinator: ERCIM
- Scientific coordinator: INRIA
- Total cost: 2 974 230 €
- European Commission funding: 1 750 000 €
- Consortium: 11 partners, 3 outside Europe



Grid programming with components: an advanced COMPONENT platform for an effective Invisible grid

2

Partnership: 11 members



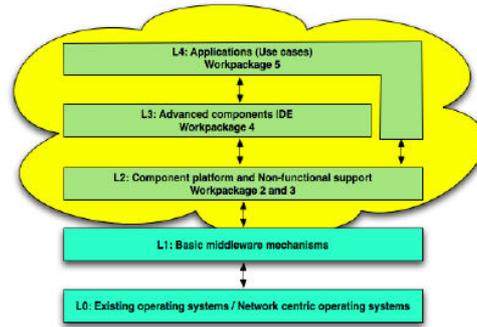
Grid programming with components: an advanced COMPONENT platform for an effective Invisible grid

3

Project Overview

○ **Objectives:**

GRID PROGRAMMING WITH COMPONENTS:
an **ADVANCED COMPONENT PLATFORM**
for an **EFFECTIVE INVISIBLE GRID**

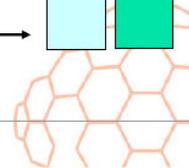
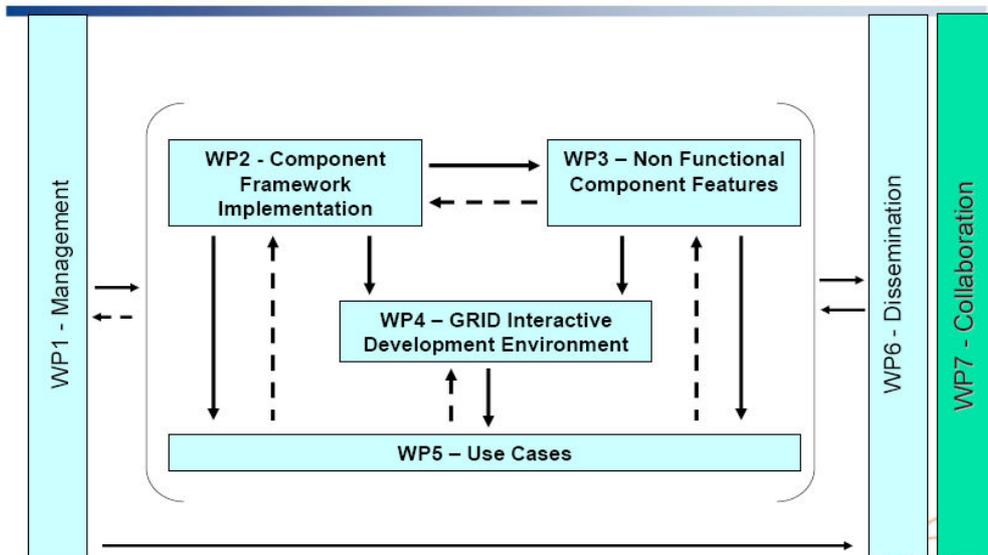


○ **Summary:**

- The Grid Component Model (GCM, NoE CoreGrid) takes OW2 Fractal comp. model as a starting point, with OW2 ProActive Grid middleware
- Interoperability with other standards: EGEE gLite, UNICORE, NorduGrid, Globus, Web Services, etc.,
- Coordination with the NESSI initiative: involvement of OW2, IBM, ATOS



Work Packages: Approach & Structure

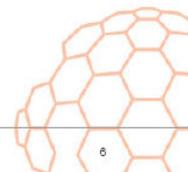


WP2: Component Framework Implementation

○GCM: Grid Component Model

GridCOMP takes:

- GCM as a first specification
- GCM being defined in the NoE CoreGRID (42 institutions)
- ProActive as a starting point, and Open Source reference implementation.
- Open Source OW2 ProActive implements a preliminary version of GCM

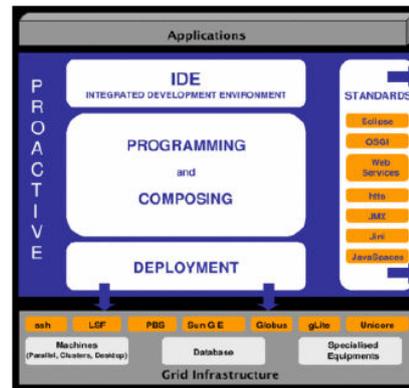


GCM Technical Structure

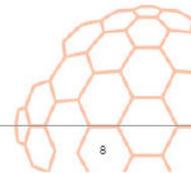
1. Component Specification as an XML schema or DTD
2. Run-Time API defined in several languages : C, Java
3. Packaging described as an XML schema
4. Information for Deployment
(Virtual Nodes, ... Variables, File Transfer, ...)

ProActive

- *ProActive* is a Java **GRID** middleware library (with Open Source code under **LGPL** license) for **parallel, distributed and multi-threaded** computing.



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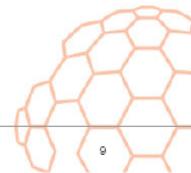
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Status of GCM in ProActive

- **Partial implementation:**
 - ADL schema, API, Multicast, Gathercast, ...
 - Component GUI (prototype)
- **Distributed components for various applications:**
 - Numerical, Legacy, ...
- **On-going experiments:**
 - up to 300+ CPUs



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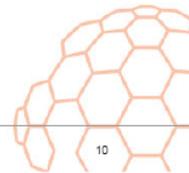
A Vision: GCM as EU's GSM

- Once upon a time:
 - GSM: Global System for Mobile communication
- Process:
 - “critical decisions [...] the GSM initiative became a success in Europe [...]
 - Initially the strategy and technical specifications were agreed for Europe and [...] incorporating all non-European requirements [...] worldwide to participate ”

From: Gsm & Umts: The Creation of Global Mobile Communications



Standardization of GSM was crucial for EU advances in Mobile Telephony (Science and Business)



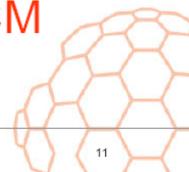
A Vision: GCM as EU's GSM

GRID faces the same challenge:

- Build Flexibility
- Openness
- Interoperability

Objectives:

Build a World-Wide standard for Science and Business GRIDs: GCM



Objectives

Objectives	How Achievement will be measured
A EU Component Framework	Adoption
Non Functional Features: Invisible Grid	Efficiency
GRID IDE	Usability
Industrial Use-Case Validations	Client Demand

Research Challenges

- **A generic GCM, still efficient**
- **Effective composition:**
 - Semantics, Deployment, Portability
- **Non-Functional Aspects:**
 - Security, Load-Balancing, Fault-tolerance, ...

Key technology advancements

- Programming the Grid with reusable, composable, components
 - vs. ad hoc solutions
- Deployment on various architectures
 - Super Computer Center, Clusters, data-center, desktop Grids, ...
- Interoperability with related Grid software
- Integration into Service Oriented Architecture (SOA)



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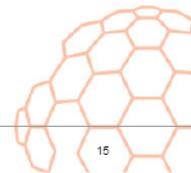


WP3 - Non Functional Component Features (1)

- Definition of a “framework” for autonomic management of distributed components
 - Design of the manager structure
 - Definition of proper implementation mechanisms
 - Characterisation of properties handled through autonomic managers
- Preliminary experiments on notable (parallel) component compositions
 - Autonomic management of simple performance contracts
 - Assessment of the autonomic framework features

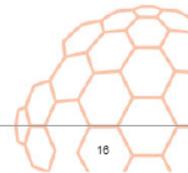


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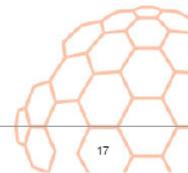
WP3 - Non Functional Component Features (2)

- Layered design of non functional component features
 - Identify proper support mechanisms to handle dynamic adaptation of components
 - Define local strategies to achieve contractually specified QoS goals
 - Based on mechanisms, predefined for well-known paradigms
 - Exhibiting local functional correctness
 - Enforcing the reestablishment of broken QoS contract to validity range
 - Define orchestration strategies preserving local to global effect
 - Local strategies are functional to a global goal
 - Application adaptation extent is keep as local as possible
- Interaction with use case providers to assess/improve non functional framework
 - Framework is validated on use cases or parts of them



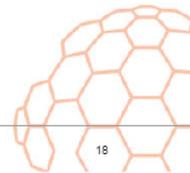
WP4 - Grid IDE for Programmers and Composers

- Provides an integrated programming and composing GUI.
- Offers facilities to bind both normal code and legacy code into primitive components.
- Enables assembly of Grid applications.
- Provides tools for the deployment of a given Grid component configuration or application.



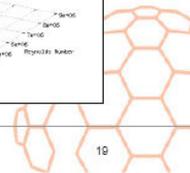
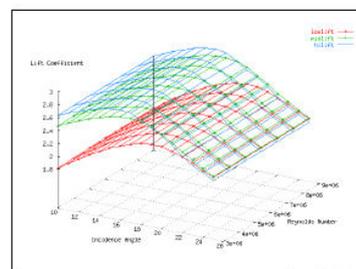
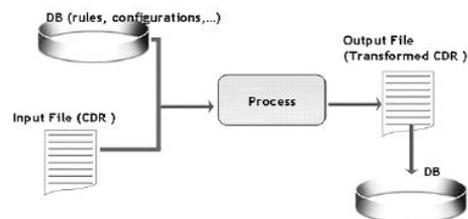
WP4 - Grid IDE for Data-centre operators

- Provides a mechanism for installing, monitoring and mapping necessary component code to available resources.
- Offers a steering tool for installing, removing, and re-installing new versions of component code.
- Provides a tool for the monitoring of resources.



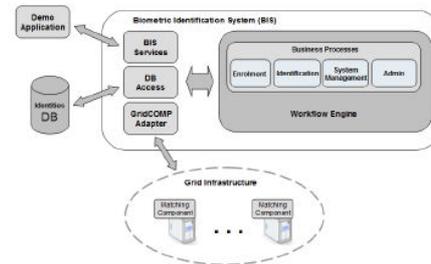
WP5 - Use cases (1)

- Telecom - Extended Data Record Processor
 - Collects, cleans, unifies and process data from several sources
 - Grid technology will provide reduced processing time, redundancy, fault-tolerance, lower cost and higher scalability
- Aerospace - Wing Design Application
 - Legacy application that computes the aerodynamic wing performance for a given configuration
 - This application will be wrapped into a component and distributed for parallel execution

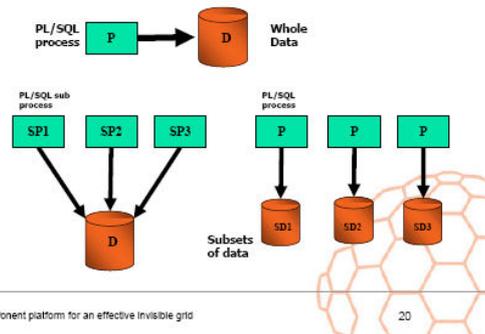


WP5 - Use cases (2)

- Biometric Identification System
 - Identify people solely on their biometric information (1:N match)
 - Use fingerprint biometrics (AFIS)
 - Consider multiple fingers to work reliably on large user population
 - Use distributed matching to achieve real-time performance
 - Based on business process (workflow) engine for adaptability



- Management application
 - Client/server application, with heavy processes (computing or data access intensive) written in PL/SQL procedures
 - Speed-up by parallelizing a sequential process into several sub processes
 - Speed-up by splitting data into subsets



Expected Results & Impact

Anticipated Results & Impacts	Milestone (date)
Running and operational prototype of the component framework	M6 – M24
Management of Non-Functional Aspects	M14 – M24
A GCM Grid environment (IDE)	M18 – M24
Use of the GCM in the 4 industrial use cases	M30



Standardization *(contribution to & use of)*

○ Approach:

- Ensure interoperability with existing Grid software
- EGEE gLite, Unicore, WS, Globus, LSF, ...
- Other business standards (PKI X509, OSGi, ...)

○ Standardisation Goals:

- A well defined, standardized, EU GCM, ... GGF
- Tested Grid Interop (Grid PlugTests, ETSI)
- Adoption by industry

○ Standards that will be used:

- gLite, Unicore, WS, X509



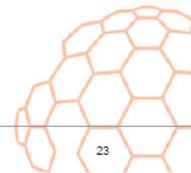
Technical progress planned for the next six months (1/2)

○ ProActive/GCM Implementation

- Collective interface improvements (multicast)
- Interface the ProActive **Scheduler** with component
- Reorganization of the ProActive descriptor deployment file : more component
- Improve separation between ProActive features and ProActive/GCM

○ Grid IDE early prototype

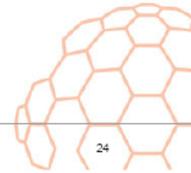
- ADL files viewer, checker, editor



Technical progress planned for the next six months (2/2)

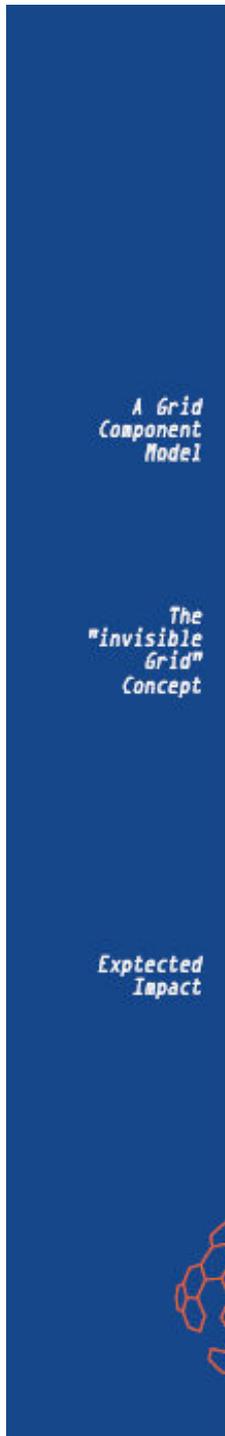
○ Non Functional Component Features

- Definition of a “framework” for autonomic management of distributed components
 - Prevent conflicts with the monitoring/steering Grid IDE functionality
- Preliminary experiments on notable (parallel) component compositions
 - Autonomic management of simple performance contracts
 - Assessment of the autonomic framework features
- Interaction with use case providers to assess/improve non functional framework



3 GridCOMP Flyer

The GridCOMP Flyer is a short (2-pages) presentation of the project, which can be used all over the world during meetings, workshops and events, about Grids.





Effective Components for the Grids



Grids programming with components: an advanced component platform for an effective invisible Grid - a research project supported by the European Union.

Information Technologies require standards for interoperability; they are a true catalyst for scientific and business development.

The GridCOMP project defines and implements a Grid Component Model (GCM) for the IT sector. Standard Grid components will make it possible to seamlessly compose applications and services deployed on large-scale infrastructures including several thousand machines all over the world.

The main goal of the GridCOMP project is the design and implementation of a component based framework suitable to support the development of efficient Grid applications. The framework will implement the "invisible Grid" concept as it will properly abstract all those specific Grid-related implementation details that usually require high programming efforts to be dealt with. GridCOMP will take the Grid Component Model developed by the CoreGRID Network of Excellence (www.coregrid.net) as a first specification, and use the OW2 ProActive Open Source implementation (proactive.objectweb.org) as a starting point. OW2 ProActive Grid middleware ensures interoperability with other standards such as EGEE gLite, UNICORE, NordicGrid, Globus, and Web Services.



Standard Grid components will make it possible to seamlessly compose applications and services deployed on large-scale infrastructures.

GridCOMP will leave an imprint on the European and world-wide Grid community by:

- defining a component framework using standard tools;
- participating in well-known standardization bodies;
- disseminating the project results and achievements to both the scientific and industrial communities;
- contributing to the development of a component industry for the Grid.

Web site: <http://gridcomp.eclim.org/>

GridCOMP is a "Specific Targeted Research Project" supported by the IIT programme of the European Union (IN Information Society and Media- project n° FP5-32442)








Cooperation

Partnership

Facts

Contact



Coordination with the Networked European Software&Service Initiative (NESSI) is a strong priority, with the involvement of OW2, Atos Origin and IBM.

GridCOMP addresses both scientific computing and Grid-based business applications. The project can reach a world-wide audience thanks to the involvement of partners from Australia, China and South America.

 ERCIM <small>European Research Consortium for Informatics and Mathematics, France</small>	 INRIA <small>INRIA - Institut National de Recherche en Informatique et en Automatique, France</small>
 <small>Computer Science Department University of Pisa, Italy</small>	 <small>IBM Zurich Research Laboratory, Switzerland</small>
 University of Westminster <small>Harrow School of Computer Science University of Westminster, London, UK</small>	 <small>ATOS Origin, SEA, Spain</small>
 <small>Institute of Information Science and Technologies of the Italian National Research Council (ISTI CNR), Pisa Italy</small>	 <small>Department of Computer Science and Technology, Tsinghua University, China</small>  <small>Department of Computer Science and Software Engineering, University of Melbourne, Australia</small>
 <small>Grid Systems, SA, Malaga, Spain</small>	 <small>Computer Science Department, University of Chile</small>

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