



Enabling Grids for  
E-science in Europe

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# Service Activity 1

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- Summary of work accomplished since First EGEE Conference in Cork
- State of their deliverables and milestones for M3 (as well as indication on deliverables and milestones for M4 and M5)
- State of Execution Plan
- Overview of current and planned WBSs
- Overview of products
- Risk analysis
- Issues related to other activities
- Highest priority steps to take between now and the conference in Den Haag
- Hiring status and manpower levels



# Work accomplished

- Summary of work accomplished since First EGEE Conference in Cork
  - Clearly defined Roles and Responsibilities of ROC and CIC
  - ROC Coordination meeting in Milan:
    - Start technical workshop to exchange working experience and technical procedures between ROCs
    - UK: monitoring and accounting tools
    - IT: deployment procedures
    - FR: adding new VO
    - DE: user and operation support systems
    - SEE: Services and testbeds
  - Discussion to define procedure to integrate National Grids to EGEE

# ROC

- ROC Responsibilities:
  - Acceptance testing (certification) of the new middleware on a variety of platforms before deployment
  - Deployment of middleware releases + coordination
  - SLA negotiation
  - Development of procedures and capabilities to operate the resources
  - First-line support in resolving any operational problems originating at the Resource Centres.
  - First-line user support

- Roles
  - Middleware release distribution inside the region taking care of integration of 'Local' VO
  - Bring new resources into the infrastructure and support their operation.
  - Coordination of integration of existing national grid infrastructures and how they integrate into EGEE.
  - Source of expert advice and technical support in deploying and operating the middleware in the RCs.
  - Participate in validating new middleware releases. Organise and operate certification testbeds within the region
  - Provide resources for pre-production service.
  - Port middleware to specific regional needs

# ROC

- Coordinate the operational management RCs
- Collect and Monitor Service Level Agreements (SLA)
- Negotiate application access to resources within the region.
- Organise CAs within the region.
- Coordinate activity reporting to SA1 management.

# CLC roles

- Operate core services
  - VO-specific services
    - Database services for replica services for a VO (or set of VOs)
    - Other database services
    - Resource Brokers, User Interface, Information services.
  - General GRID Services covering whole EGEE scope
  - Collaborate with ROC to operate core services for region specific VO and National Grids
- Development of new management tools
- Act as GOC
  - Proactively monitor core services and provide support to the Regional Operations Centres
  - Deploy, operate and monitor grid-wide and Virtual Organization-specific grid services
  - Monitor infrastructure components and services
  - Publish usage figures and accounting
  - Performing monitoring and troubleshooting.
- Second-level support for ROCs
- Produce Project Deliverables

## Deployment status on going: Production service

- Germany:FZH, Karlsruhe, Wuppertal, CSCS.....
- Italy: CNAF, LNL, Milano, LNF, Napoli, Roma, Padova plus INFN-Grid sites...
- UK/Ireland: RAL, UCL, Manchester, ScotGrid, GridPP, Imperial College plus UK-GRID sites...
- France: Lyon, Clermont...
- SEE: GRnet (Gr), Wiezman (Israel)...
- CE: Cyfronet-Cracow, Cesnet, Prague, Hep-At, Budapest
- SW: PIC/IFAE, Ciemat, Valencia, Barcelona, IFCA, LIP/Pt
- NE: Nikhef, Sara...
- RU: Sinp...



# Services and testbeds

- **M/W Certification testbed:**
  - The certification testbed is currently at CERN part of CERN OMC team.
  - It is expected that this testbed extended in a dynamic way to include testbed and verification activities coordinated in each region through the ROCs.
  - This activities includes certification of improvement to the current EGEE-0/LCG-2
  - ROCs should provide these resources
  - IT and SEE Roc willing to participate
- **Need resources for porting**
  - E.g. If a region has particular need – port to their favourite OS and certify middleware

## Pre-production service

- In parallel with the production service, there will be a pre-production service in operation.
- This service will run the next version of the middleware.
- ROCs should provide resources for this services.
- Not yet defined ROCs commitment to take part of Pre-production services
- Backwards compaitibility is a general requirements
- ROCs ask for requirements on hw, sw, grid expertise for the candidate RC
- Experienced users need to be involved as well

# M3 Deliverable

- Execution Plan
- Status:
- Made of
  - general series documents
  - Federation series document:
    - Defined TOC
    - Recieved most of the contributions
    - Delay from the federation with several countries involved with different expertise
- Progress followed in the weekly phone meetings

# WBS

SA1.1	Initialisation Tasks (PM 01-06)	
SA1.1.1	Execution Plan	
	SA1.1.1.1	CERN
	SA1.1.1.2	UK
	SA1.1.1.3	IT
	SA1.1.1.4	FR
	SA1.1.1.5	CE
	SA1.1.1.6	SE
	SA1.1.1.7	SW
	SA1.1.1.8	RU
	SA1.1.1.9	DEIGH
	SA1.1.1.10	NE
SA1.1.2	Setup of ROC	
	SA1.1.2.1	IT
	SA1.1.2.2	FR
	SA1.1.2.3	CE
	SA1.1.2.4	SE
	SA1.1.2.5	SW
	SA1.1.2.6	RU
	SA1.1.2.7	DEIGH
	SA1.1.2.8	NE
SA1.1.3	Setup of C/C	
	SA1.1.3.1	CERN
	SA1.1.3.2	UK
	SA1.1.3.3	FR
	SA1.1.3.4	IT
SA1.1.4	Setup of OMC	
	SA1.1.4.1	CERN
SA1.1.5	Release notes #1 (PM 04-06)	IT
SA1.2	Operation (PM 07-24)	
SA1.2.1	Operation and management of ROC	
	SA1.2.1.1	IT
	SA1.2.1.2	FR
	SA1.2.1.3	CE
	SA1.2.1.4	SE

# WBS

	SA1.2.1.6	SW
	SA1.2.1.6	RU
	SA1.2.1.7	DE/CH
	SA1.2.1.8	NE
SA1.2.2	Operation and management of CIC	
	SA1.2.2.1	CERN
	SA1.2.2.2	UK
	SA1.2.2.3	FR
	SA1.2.2.4	IT
SA1.2.3	Operation and management of OMC	
	SA1.2.3.1	CERN
SA1.3	Deliverables	
	SA1.2.4	Accounting (PM 07-08)
	SA1.2.5	Assessment #1 (PM 12-14)
	SA1.2.6	Cookbook #1 (PM 12-14)
	SA1.2.7	Release notes #2 (PM 12-14)
	SA1.2.8	Cookbook #2 (PM 22-24)
	SA1.2.9	Assessment #2 (PM 22-24)
	SA1.2.10	Release notes #3 (PM 22-24)
SA1.A	Administrations/ common tasks	
	SA1.A.1	Activity management/Coordination
	SA1.A.2	Coordination with other projects
	SA1.A.3	EGEE conferences
	SA1.A.4	EGEE deliverable review
	SA1.A.5	Dissemination
	SA1.A.6	EGEE publications
	SA1.A.7	EU reviews
	SA1.A.8	Partner tasks
	SA1.A.9	Standardization bodies
	SA1.A.10	Training (trainee)
	SA1.A.121	Training (trainer)

- Highest priority steps:
  - Define and agree on a support system which incorporates both user and operation support with common user interface
  - Dispatching ticketing system to ROCs able to collect up to date info from RC, incorporating regional defined support structure
  - A dedicated team with representatives from each ROC has been defined
  - Define the meaning of 'SLA' for Grid Services and resource centers and develop management tools to measure and report
  - Define the system architecture in term of Grid services (CE, SE, RB, etc) able to fulfill VO requirements

# Manpower level and hiring status

- CERN:
  - OMC and CIC: 38 FTE – 9 Funded based on LCG project operation teams
- IT:
  - CIC 9.4 FTE 14 people – partner INFN
  - ROC 24 FTE 34 people - partners INFN, UniLE, UniNa, UniCz, Enea
- NE
  - ROC 10 FTE 21 people, deviation 2.5, Partners: Nikhef, Sara, PDC, HPD2N, NSC
- FR
  - ROC and CIC: 25 FTE 39 people, 4 partners CNRS, CGG, CSSI ECP