

SA1 Execution Plan Status and Issues

Ian Bird

EGEE Operations Manager

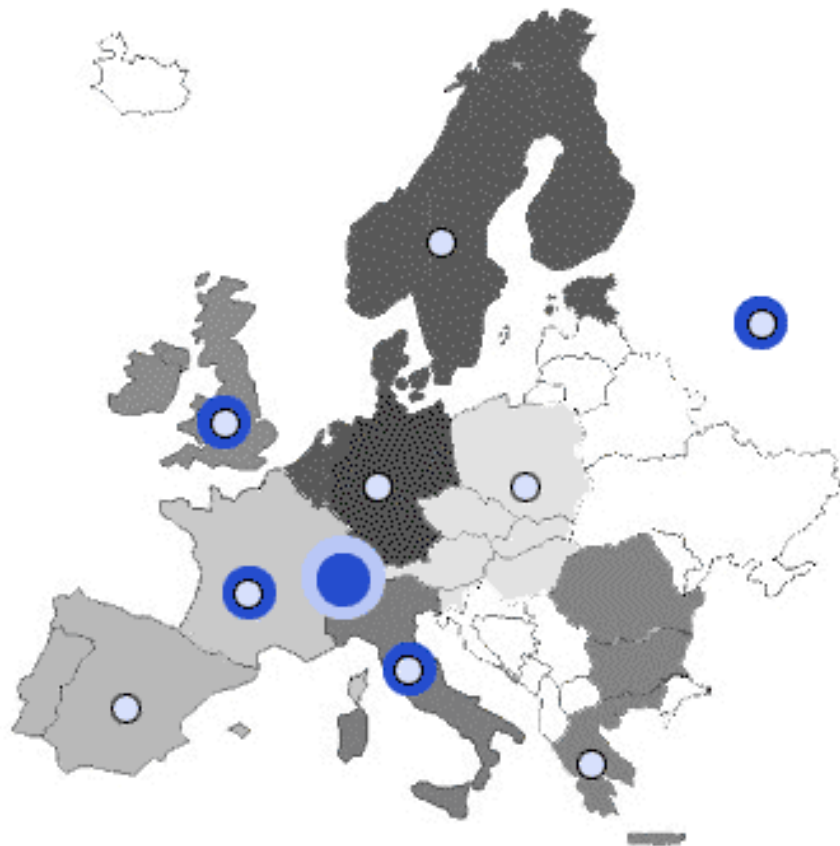





EGEE is proposed as a project funded by the
European Union under contract IST-2003-508833

SA1 Objectives

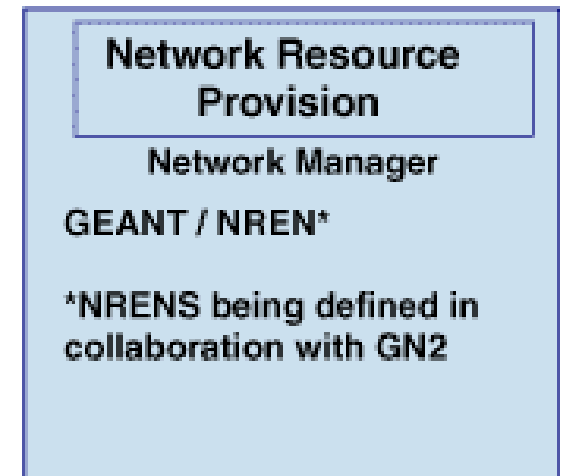
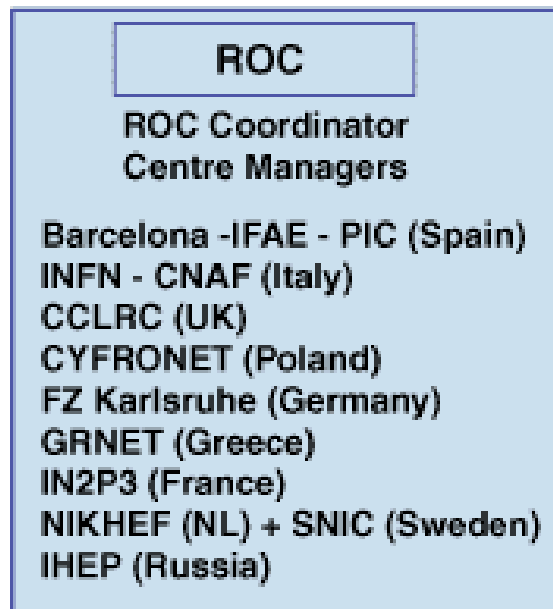
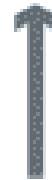
- **Core Infrastructure services:**
 - Operate essential grid services
- **Grid monitoring and control:**
 - Proactively monitor the operational state and performance,
 - Initiate corrective action
- **Middleware deployment and resource induction:**
 - Validate and deploy middleware releases
 - Set up operational procedures for new resources
- **Resource provider and user support:**
 - Coordinate the resolution of problems from both Resource Centres and users
 - Filter and aggregate problems, providing or obtaining solutions
- **Grid management:**
 - Coordinate Regional Operations Centres (ROC) and Core Infrastructure Centres (CIC)
 - Manage the relationships with resource providers via service-level agreements.
- **International collaboration:**
 - Drive collaboration with peer organisations in the U.S. and in Asia-Pacific
 - Ensure interoperability of grid infrastructures and services for cross-domain VO's
 - Participate in liaison and standards bodies in wider grid community

Operations Infrastructure



-  Operations Management Centre
-  Core Infrastructure Centre
-  Regional Operations Centre

SA1 Management



SA1 Partners

- CERN (OMC, CIC)
- UK+Ireland (CIC,ROC)
- France (CIC, ROC)
- Italy (CIC, ROC)
- Germany+Switzerland (ROC)
- Northern Europe (ROC)
- South West Europe (ROC)
- South East Europe (ROC)
- Central Europe (ROC)
- Russia (CIC – M12, ROC)

- 48 Partners involved in SA1
- ROC's in several regions are distributed across many sites

Organisational Issues

- ROC's must take responsibility:
 - Chapter in execution plan
 - Organisation within region
 - Reporting to overall SA1

Milestones & Deliverables

Month	Deliverable / Milestone	Item	Lead
M03	DSA1.1	Detailed execution plan for first 15 months of infrastructure operation	CERN
M06	MSA1.1	Initial pilot production grid operational	
M06	DSA1.2	Release notes corresponding to the initial pilot Grid infrastructure operational	INFN
M09	DSA1.3	Accounting and reporting web site publicly available	CCLRC
M09	MSA1.2	First review	
M12	DSA1.4	Assessment of initial infrastructure operation and plan for next 12 months	IN2P3
M14	DSA1.5	First release of EGEE Infrastructure Planning Guide ("cook-book"),	CERN
M14	MSA1.3	Full production grid infrastructure operational	
M14	DSA1.6	Release notes corresponding to the full production Grid infrastructure operational	CCLRC
M18	MSA1.4	Second review	
M22	DSA1.7	Updated EGEE Infrastructure Planning Guide	CERN
M24	DSA1.8	Assessment of production infrastructure operation and outline of how sustained operation of EGEE might be addressed.	IN2P3
M24	MSA1.5	Third review and expanded production grid operational	
M24	DSA1.9	Release notes corresponding to expanded production Grid infrastructure operational	INFN

Work breakdown – tasks, products

- Basic level:
 - OMC, CIC, ROC, Security
- Next levels will depend on refinement of roles and responsibilities

Training requirements

- New people:
 - LCG, EDG, Globus – tutorials?
- New sites:
 - LCG procedures, middleware, policies, operations
- Longer term:
 - Grid services, OGSA and associated technologies etc

Risk Analysis

- People:
 - Need to identify unfunded effort now
 - Hiring process will not have people in place by April 1
 - Short term contracts –
 - tends to attract inexperienced people
 - Continuity
- Middleware:
 - Response to operational needs
 - Packaging and installation not flexible enough
 - Scope-creep of middleware – bug fixes vs functional changes
- Infrastructures:
 - National infrastructures cannot integrate in EGEE
 - UK e-Science, NorduGrid
 - Must be addressed in execution plans
- Use LCG Deployment and Security Risk Analyses
 - Quite comprehensive
 - Many issues in common

Issues related to other activities

- JRA1:
 - Understand requirements setting process
 - Agree on split of responsibilities for integration/certification/testing
 - Understand support issues for LCG-2 based middleware
 - Discussions in progress
- SA2:
 - No real issues for Execution plan
 - Operationally will work together – GOC vs NOC, understanding of SLA's
- Security:
 - Operational security – relationship to JRA3
 - Catch-all CA – whose responsibility? (JRA3?)
- JRA2:
 - Project and task breakdown and reporting structures focussed on *products* and not *services*

Changes requested to TA

- No significant changes foreseen
- Execution plan will address
 - Refinement of roles (CIC, ROC, OMC etc)
 - Interactions between them
 - Resource and service delivery

General Issues

- Peering with US Grid infrastructures
 - Needs interaction from project start
- Federation chapters should detail how national infrastructures integrate/migrate to EGEE
- Hiring
- (No) People to work on execution plan
 - Focus on getting LCG-2 running – EGEE will have operational infrastructure at project start
- Need to agree that ROC's (or defined people in each region) have organisational responsibility for the region
 - Cannot deal with 48 partners directly
 - All aspects:
 - Negotiate SLAs with Resource centres and with EGEE
 - Operational responsibility
 - Organisational responsibility – planning and reporting (effort reports, etc)

Execution plan

- Execution plan is not well advanced:
 - Many people focussed on getting LCG-2 going
- Outline exists – sections and contents quite well defined
- Template agreed for chapters for each region
- Input and ideas for some sections
- Much work still to do:
 - Refine roles and responsibilities for ROC, CIC
 - How to approach SLA's
 - Do we need a “GDB”(OAG)? – ROC and CIC managers

Execution Plan - TOC

- Overview – introduction
- Organisation
 - Clarify roles, responsibilities, interactions
 - Processes
 - Security group
 - Policy group – relation to NA5
- Federation organisation
 - Chapter per region -> template
- Service set up and deployment
 - What services, functions
 - Relation to US, Asia projects
 - Transition process
 - New centres – process
 - Training
- Policies
- Operations and tools
- Certification, Middleware support
- CA and VO management
- Operational Security
- Metrics – measurement, validation of services
 - SLA's
- Management
 - PBS
 - WBS
 - Staffing and resources plan
 - From regions
 - Training plan
 - Risk assessment
 - Deliverables and responsibilities

Execution plan – ROC template

- Resources:
 - Resource centres
 - Resources -
 - At month 1, 6, 15?
 - When RC joins EGEE
 - FTE for support (need > min)
 - Name system manager, security manager
 - Policy for:
 - Which VO supported ...
 - System support and Availability (on-call hours etc)
 - ...
 - Expertise available
 - Ability to run general grid services (IS, RLS, etc)
- ROC organization:
 - Organization – teams, etc
 - People – and responsibilities – must name unfunded people (and funded if known)
 - Support – how it is organized and managed, especially for distributed ROC's
 - Operational support – how region is organized and managed

Steps to project start-up

- Hiring
- Refine roles and interactions between CIC, ROC, NOC and other operational organisations
- Clarify interactions with JRA1
- Clarify security issues
- Clarify relationship to international grid projects for VO's that are larger than EGEE (LCG, other HEP,...)
- Understand national infrastructure integration issues
 - What requirements will this place on operations, mw, processes, security, etc.
- Set up basic policy frameworks:
 - How VO's access resources, limitations, rules, etc – sufficient that infrastructure can be exploited from project start
- Identify sites willing to run development service (based on EDG tb sites?)
- Set up OMC team
- Organise membership of QA, Security, Requirements, etc. groups
- Define transition process from LCG operations to EGEE operations