



EGEE2 Technical Overview: SA1 and SA3

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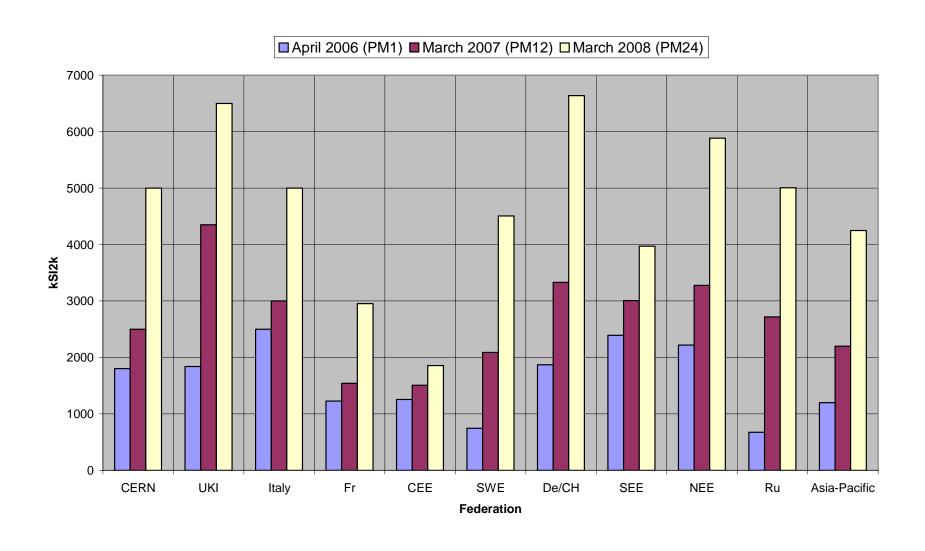




- No distinction between ROCs and CICs: all ROCs
- SEE is the LARGEST ROC with:
 - 7 countries
 - 35+ planned sites with total of comparable resources to others
 - 31 FTEs
 - (CERN 20, CE 20, UK 15, FR 25, It 30, etc.)
 - (focused teams above 5 are not manageable)

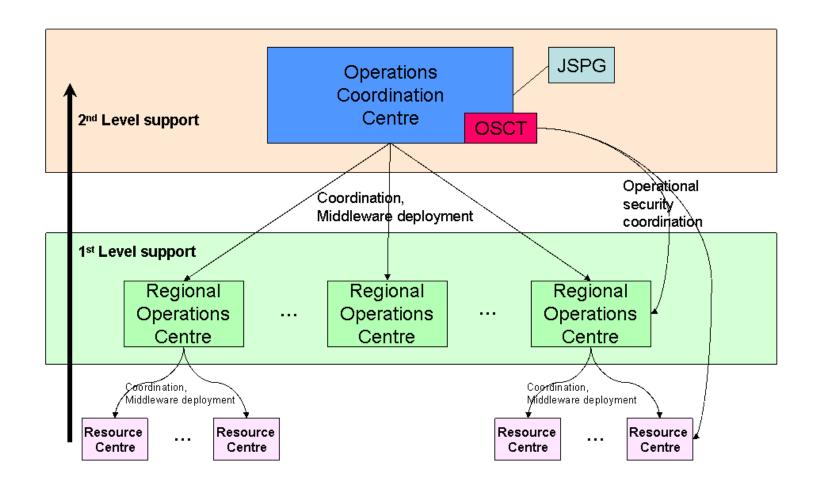


Resources: snapshot





Overall organization



JSPG: Joint Security Policy Group

OSCT: Operational Security Coordination Team



More distributed operations

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- More responsibilities for country-level Operations
 Centres: taking role of what central ROC does now
 - Registration
 - Site certification (SFTs run in Greece), debugging by countries
 - Deployment coordination
 - Full responsibility for operational problems (chasing tickets, fixing problems)
 - Country reps chasing sites for weekly report



Common tasks: each country

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- Production
- VO support, integration support (also from NA4)
- User and site admin training
- Contribution to GGUS support teams: global operational and user support
- Local SLA management
- Local accounting and metrics coordination



SA1: cluster operations

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- Must have a dedicated person performing this work
- Basic cluster operations
 - Fabric, OS, middleware
 - m/w certification; porting, customisations if necessary
 - Site installation, testing and certification.
 - Documentation
 - Operational support
 - Local monitoring service for the cluster
 - Resource utilization and SLA monitoring
 - Host and co-manage necessary core GRID services

Technical contributions in:

- Operations-related extensions to middleware, fabric management tools, middleware installation tools, monitoring tools, operational tools, metrics probes, etc. Need pro-activeness!
- Providing expertise for common EGEE pool of operational-oriented as well as user support teams.
- Provide input and logistical support for operators training; also support to other cluster administrator groups.



Specialized tasks

- Pre-production in Greece, Romania, Israel
- Operational coordination and pro-active monitoring:
 - First COD Bulgaria (short-term solution)
 - Will try to support non-hierarchical COD solutions i.e. leave it up to federation. Then we will setup our local COD.
- Running essential Grid services
 - Regional (ie regional SEE VO; infrastructure services)
 - For specific VOs
 - All sites, front line Israel, Cyprus, Greece
- Security and incident response
 - Greece, Bulgaria
- ROC Helpdesk: Romania
 - But supporters from all countries!



Further specialization: Greece

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- Security Auth
 - VO services, security coord., additions to security services, etc.
- Core operations service ICCS
 - Support for m/w deployment, site certification, operations, operational tools development
- Monitoring and accounting coordination FORTH
 - Mon tools, accounting server, accounting and metrics collection
- User support coordination CTI
 - Coordination of front-line support for the users; helpdesk oversight, TPMs, support for VO integration (operational)
- Application support Demokritos
- Pre-production UoM, UoPatras
 - Larger clusters, more dynamic deployment, f/b to developers



SA3: Overview

- SA3 will provide certified distributions of middleware ready for deployment by SA1 on the infrastructure.
- The middleware components will be drawn from EGEE/JRA1 and from external projects, with the goal of satisfying user application and operational requirements;
- Provide missing "glue" components and tools, and focus on debugging and analysis of problems;
- Make the middleware work effectively as a complete system;
- Certification of distributions with a full set of testing activities covering all aspects of functionality, reliability, security, etc.



SA3: Greek involvement

- Running a local branch of certification testbed
- Mainly focused on the MW Certification process which includes:
 - Validate that middleware components function according to their specification, including backward compatibility where needed;
 - Validate that the integrated middleware distribution functions as required;
 - Validate the security model;
 - Test security vulnerabilities;
 - Test a broad range of installation and deployment scenarios;
 - Performance and stress testing, including reliability and robustness;
 - Test management and operational functionality of the components;
 - Test interoperation with other middleware, ensure that upgrades do not break what is already achieved