EGEE & SA3

Markus Schulz
CERN IT

www.eu-egee.org
www.glite.org

Information Society and Media

Outline

- EGEE III status
- EGEE III skeleton for an execution plan
- Discussion

SA3 in Numbers

Manpower: EGEE II 12 partners, 30 FTE

Short Name	Total (PMs)	NEW Total (PMs)
CERN	432	396
PSNC	36	24
TCD	19	**36**
IMPERIAL	24	0
INFN	60	**96**
UKBH	12	0
UCY	34	12
GRNET	24	**30**
CSIC	12	8
PIC	24	12
CESGA	12	12
CESNET	0	**24**
FOM	0	**24**
UH.HIP	0	**12**
JINR	0	**10**
PNPI RAS	0	**10**
SINP MSU	0	**11**
STFC	0	**36**
ASGC	0	**40**
FZJ	36	**0**
Total	**725**	**793**

EGEE III 17 partner 33 FTE

8 new partners

Significant resources co-located with JRA1 effort (including CERN DM)

We asked for a small number of strong partners, but average funding decreased.

Some cuts are critical: UCY is a good example

SA3 work plan has to reflect this

- **Daft of DoW has been submitted to EU.**
  - Very close to the proposal text
  - More emphasis on co-operation with ETICS
  - Effect of JRA1 cut on “Cluster of Competence” concept
    - Some partners have only a tiny JRA1 component left
    - Some partners have a JRA1 / SA3 ratio < 1
    - Partner plans have to reflect this
      - *We expect very good packaging and pre tested software*
        - Leading to accelerated certification and releases
      - *We expect complete packages*
        - updated documentation …….
  - Central team has been reduced
    - Note some CERN resources are co-allocated with JRA1-DM
- **New partners have to get started**
  - Most have already EGEE experience

Milestones and Deliverables

- **Deliverables**
  - DSA3-1 (month 12), DSA3-2 (month 22)
    - Middleware releases produced and status of multiplatform support
      - *CERN, TCD and FOM*
      - *This includes batch system support!*
  - Very lightweight
- **Milestones: We suggested very few**
  - but NA1 added several, some early in the project!
  - MSA3-1 (PM 2 CERN)
    - Activity Quality Assurance and Measurement Plan
  - MSA3-2 (PM 3 TCD and FOM)
    - Strategy and roadmap of EGEE multi-platform support
      - *Includes batch systems, THE PLAN*
    - Work has to start on day 1!!

Milestones and Deliverables

- **Milestones: More**
  - MSA3-3 (PM4 CERN)
    - Strategy and Plans for interoperability with other grid infrastructures
    - Oriented towards standards
    - Analysis of how close to standards gLite is
      - *Given the funding level of JRA1 this will be quite academic*
  - MSA3.4.1 (PM4, CERN)
    - Definition and documentation of the revised software live-cycle process
      - *Should reflect new "Cluster" concept*
  - MSA3.5.1 (PM6, CERN and AS)
    - Deployment guide
      - *Has to be done in cooperation with SA1*
      - *Will be very labor intensive*
      - *Potentially a key document*

Milestones and Deliverables

- **Milestones: And more**
  - MSA3-6 (PM6 INFN)
    - Developers' Guide
    - Adaptation of the EGEE-II document
      - *Requires cooperation from JRA1*
      - *We have to turn this into a useable set of minimal rules*
        - Better 5 pages that are used than 200 that are ignored
  - MSA3-7 (PM 7 CERN) **gLite Roadmap**
    - Roadmap for gLite during EGEE-III
    - JRA1, NA4, Interops, Standardization ---- TMB
      - *Not clear why we are the "editors"*
        - But it gives us some influence (If you can't avoid it ,try to enjoy it!)
  - MSA3.5.2 (PM 18 CERN, AS)
    - Update of the deployment guide
  - MSA3.4.2 (PM 20 CERN)
    - Update of the software live-cycle process

Milestones and Deliverables

- **We have to participate in the review process**
  - Reviewers + Moderators
  - In EGEE-II most of this work was done by CERN
    - Thanks to Imperial for helping out
  - In EGEE-III we have to split this work between partners
    - Moderators: Experienced EGEE partners
    - Reviewers: Everyone can contribute
    - There will be about 20 documents that we have to process
      - *As soon as we know the details we should add this to the execution plan*

Execution Plan Strawman

- **TSA3.1: Integration and packaging**
  - Tool maintenance and operation, repositories
  - Documentation (releases, config, end user)
  - Configuration management
  - Integration (accepting patches)
- **CERN (5 3/4 FTEs)**
  - Coordination, process, tools, interaction with SA1
  - 1.5 FTEs for JRA1 Data Management support
  - Client libs distribution
  - Collection and maintenance of documentation
- **INFN (1 FTE)**
  - WMS, CE, VOMS-VOMS Admin, DGAS, authorisation and prioritization frameworks
  - maintains with developer support ETICS and YAIM config.
    - Debugs builds, manages dependencies, assembles documentation

Execution Plan Strawman

- **TSA3.1: Integration and packaging continuing**
- **TCD (4 PMs)**
  - Security infrastructure middleware, tools for interop
- **STFC (1/4 FTE) --->** ▪ 5 days/month
  - Service discovery and info system APIs
- **CESNET (1/4 FTE)**
  - LB and Job Provenance Service
- **ASGC (8 PMs (not funded))**
  - Work with the central team on tool and process improvements

Execution Plan Strawman

- **TSA3.2: Testing and certification**
  - Maintain test infrastructure that is required for certification
    - Testbeds, test suites, tools …..
  - Coordinate with PPS, pilot services and experimental services
  - Patch processing
- **CERN (6 FTEs) + ASGC (8PMs)**
  - Coordination, test process development and tracking
  - Collecting tests (regression tests)
  - Test framework
  - Operation of a large testbed (120+ nodes)
  - Support for virtual testbeds
  - Patch processing (including coordination)
  - Communication with JRA1, NA4 and SA1
  - 1 FTE for JRA1 Data Management tests

Execution Plan Strawman

- **TSA3.2: Testing and certification**
- **INFN (2 FTEs)**
  - Testing up to production readiness of “INFN” components
    - WMS, CE, VOMS.....
  - Operating resources for testing
  - Participation in Patch processing
- **TCD (8 PMS)**
  - Security infrastructure testing, accounting, interops
- **CSIC (8), IFAE (6), CESGA (6), UCY (6)**
  - Patch processing, test beds, stress tests (where applicable)
- **GRNET (19PMs)**
  - As above with emphasis on configuration, job submission and batch systems

Execution Plan Strawman

- **TSA3.2: Testing and certification**
- **STFC (1 FTE)**
  - Patch processing for information system(s)
  - Stress testing of information system
  - Testing of service discovery and information system APIs
- **CESNET (1/4 FTE)**
  - Production readiness testing for LB
- **JINR (1/4), PNPI RAS (1/4), SINP MSU (10PMs)**
  - Test development and test integration (SAM, ETICS)
- **UH HIP (1/2 FTE)**
  - Medical data management components
  - Test authoring and testing for production readiness

Execution Plan Strawman

- **TSA3.3: Support, analysis, debugging, problem resolution**
  - Addressing problems seen in production (analysis)
  - Coordination of solutions (if possible providing solutions)
- **CERN (2 FTEs)**
  - Coordination
  - Standardization
  - Scalability issues, information system, cooperation with SA1
- **INFN (1/2 FTE)**
  - In depths debugging for “INFN” components
- **STFC (1/4 FTE)**
  - Service discovery and information system API
  - Standardization
- **UCY (1/4 FTE)**
  - Operational problems, integration problems

Execution Plan Strawman

- **TSA3.3: Support, analysis, debugging, problem resolution**
- **CESNET (1/4 FTE)**
  - Job tracking problems
- **PSNC (16PMs)**
  - Security related problems, security test development
- **JINR, PNPI RAS (4+4 PMs)**
  - Deployment scenario related problems

Execution Plan Strawman

- **TSA3.4: Interoperability & Platform support**
  - Interoperation with other infrastructures, standardization
  - Support for multi platform ports
    - OS, batch system, hardware
- **CERN (1 FTE)**
  - Coordination, standardisation of information systems an schemata
  - Interoperation with other grid infrastructures

Execution Plan Strawman

- **TSA3.4: Interoperability & Platform support**
- **FOM (1 FTE)**
  - Coordination of the efforts for batch systems for all CEs
  - Support for Torque and Maui
- **INFN (1/2 FTE)**
  - Support for batch system integration with BLAH providing expertise to partners developing interface code to specific batch systems.
- **IFAE (1/4 FTE)**
  - Condor batch system integration and support.
- **CESGA (1/4 FTE)**
  - Sun Grid Engine batch system integration and support

- ***Given the resource level of the other partners we should consider to widen the scope of FOM and INFN***

Execution PlanStrawman

- **TSA3.4: Interoperability & Platform support**

- **TCD (1 FTE)**
  - Platform porting coordination and strategy, platform porting.
- **CESNET (4 PM)**
  - Standardisation of job tracking systems and interoperation with other Grid infrastructures.
- **GRNET (9 PM)**
  - tests for torque
  - assistance for batch system testing

Execution Plan Strawman

- **TSA3.4: Interoperability & Platform support**
- **PSNC (8 PMs)**
  - Platform porting and support for tests on Opteron architectures
  - This has to be made more concrete
    - Maybe focus on Debian ports is more important?
- **ASGC (1 FTE)**
  - SRM – SRB interoperation

- **Problem:**
  - **NO SUPPORT FOR LSF**

- **Missing effort will NOT default back to CERN**

Execution Plan Strawman

- **TSA3.5: Activity Management**
- **Manage SA3**
  - Reports, reviews, project work
- **Activity Manager, Release Manager**
- **Quality assurance**
- **Cross activity coordination (JRA1, NA4, SA1)**
  - EMT, TMB
- **EGEE policy and sustainability work**

- **CERN (1 3/4 FTE)**
- **CESNET (2 PMs) Activity event organisation**
- **GRNET (2 PMs) review preparation**

What is missing

- **At start of EGEE III**
  - Partners should provide names and contact information
    - Including split of resources
    - Including estimates on when people will be available
      - *If necessary plan for hiring*
  - Short plan for their activity
    - For testing an estimate of patches that can be handled
      - *Assume 3 categories*
        - Simple (1 week), Normal (2 weeks), Tricky (4 weeks)
      - *And the preferred area*
    - For multiplatform support tentative milestones are required

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      - *And the preferred area*
    - For multiplatform support tentative milestones are required
- **General Problem:**
  - Due to large number of partners more coordination is needed
  - How?
    - We are too many for efficient phone conferences
    - We are too many for frequent all hands meetings
    - Virtual clusters?????

What is missing

- **At start of EGEE III**