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Enabling Grids for E-sciencE

Technical Coordination Group (TCG)

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www.eu-egee.org

Information Society

- **TCG = Technical Coordination Group**
  - Essential tool in EGEE2
  - Already in place (set up after Pisa)
  - Replaces the PTF (Project Technical Forum)
- **Web site (and savannah)**
  - http://egee-intranet.web.cern.ch/egee-intranet/NA1/TCG/tcg.htm
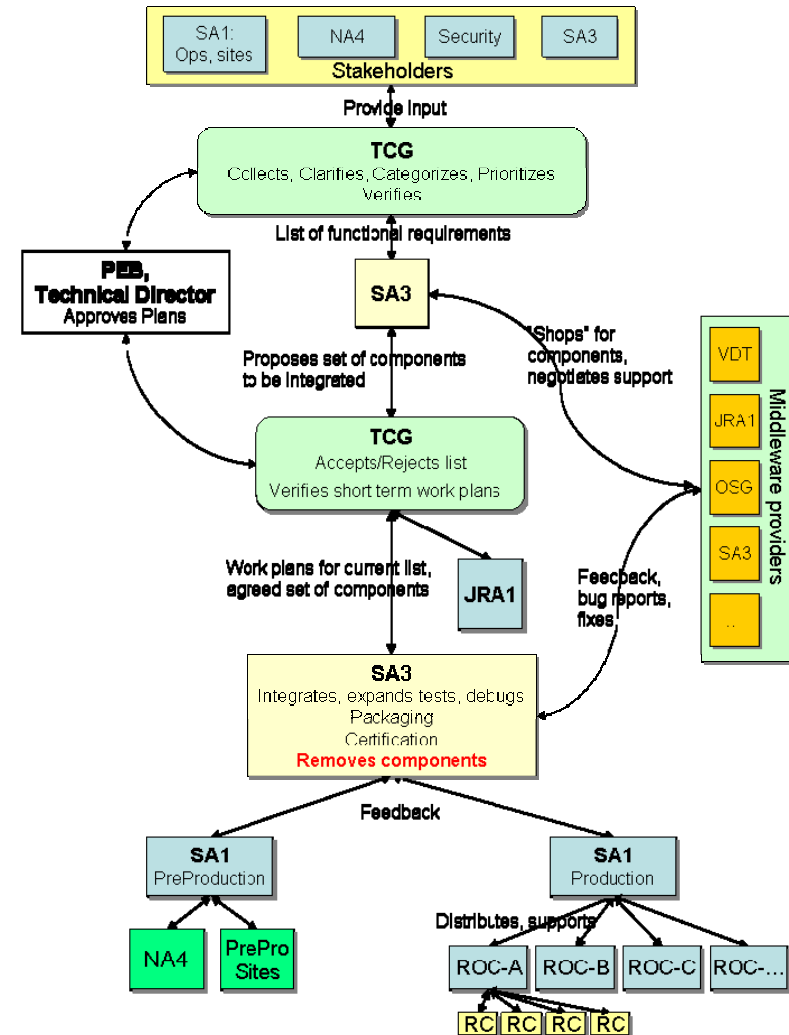
- The TCG brings together the <u>technical activities</u> within the project in order to <u>ensure the oversight and coordination</u> of the technical direction of the project, and to ensure that the technical work progresses according to plan.

- The technical coordination will be addressed by a small group that contains individuals with experience in specific areas […] making sure that SA1, SA2, SA3, NA4 and JRA1 have a common view.

- The group receives and clarifies input requirements from the activities, the steering boards and from <u>short-lived workgroups</u> that define goals in certain areas (e.g. data management, security, monitoring, etc.). The group then prepares […] the agreed and realistic work plans for short periods. One of the roles of the group is to <u>document and publicize the discussions and decisions</u>.

- The requirements of different user communities and the expectations of different resource centers, as service providers, will be <u>coordinated</u> by the TCG. Such requirements will be effectively incorporated in the deployment of the Grid infrastructure and associated Grid middleware in a cyclical manner throughout the project lifetime.

- Another role is to make sure that every activity is aware of standards and to coordinate the contribution to standardization (inside/outside EGEE)

TCG Membership

Activity	Member	Alternate
Chair	Erwin Laure	Markus Schulz
Secretary	David Smith	
SA1	Ian Bird	
Site representative		
SA2	Jean-Paul Gaultier	Mathieu Goutelle
SA3	Markus Schulz	
JRA1	Claudio Grandi	
JRA1/Security	John White	Joni Hahkala
NA4	Cal Loomis	Massimo Lamanna
Alice TF	Federico Carminati	Latchezar Betev
Atlas TF	Laura Perini	Dario Barberis
Biomed TF	Johan Montagnat	Christophe Blanchet; Ignacio Blanquer
CMS TF	Stefano Belforte	
LHCb TF	Andrei Tsaregorodstev	Philippe Charpentier

Local intranet

- **Future plans for gLite 3.0**
  - See next slides (and Marco's presentation in this workshop)
- **"Mapping needed"**
  - What is the mapping?
    - Mentioned in the review as well
    - gLite services used/not used
    - As a function of applications (different applications dependent on different part of the middleware stack)
    - Could use the baseline services as an example (HEP)
    - Complementary to the requirement database collected by the PTF
  - What is the mapping for?
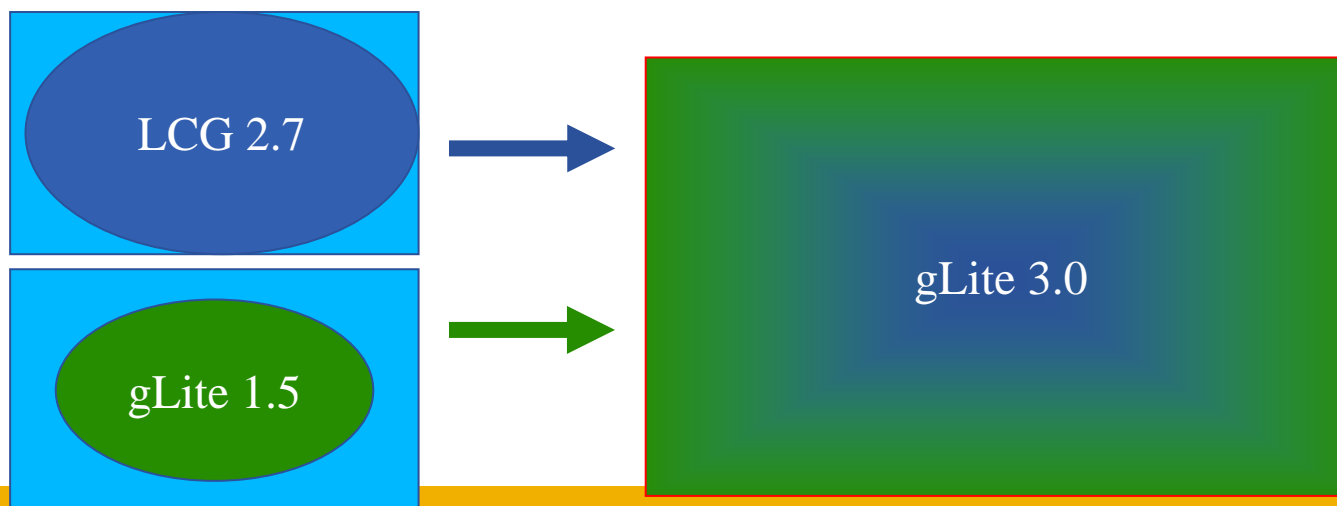   - Identify priority and drive evolution

- **Driven by the TCG according to the EGEE-II process**
  - other components form gLite 1.5.0
  - adaptation of components to meet user needs
  - Introduction of missing functionality

- **Input from applications Task Forces**

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Convergence of gLite and LCG-2

- **Converge from LCG and gLite to a single middleware stack called gLite. The first version will be gLite 3.0.0**
- **gLite 1.5.0 and LCG 2.7.0 will be the last independent releases (expected in January)**
- **gLite 3.0.0 will contain the following components:**
  - All components already in LCG 2.7.0 plus upgrades
    - this already includes new versions of VOMS, R-GMA and FTS
  - The Workload Management System and the DGAS accounting system of gLite 1.5.0
  - The PPS will have also the other gLite 1.5.0 components
- **After the release the missing components of gLite 1.5.0 will be included in a new release, or the same functionality will be added to the existing components**
  - Will start from the data management system (Fireman, gLiteI/0, Hydra, AMGA)

Timeline for gLite 3.0.0

- **TCG proposed timeline:**

- **Integration: During January**
  - On component level (separate build systems)
  - Merging the service configuration tools
    - Taking into account outcome of the site manager's survey
- **Testing and Certification: During February**
  - Preproduction service as deployment test
  - Based on existing test suites
    - Very little time for merging the test frames
- **Public Release: End of February**
  - Deploying WLM in parallel on large sites
  - Small sites can afford just one gatekeeper

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- **For gLite 3.0 it was decided that:**
  - gLite 3.0 will be based on LCG 2.7, including gLite 1.5 WMS, LB, CE, client tools and DGAS.
  - Contacts with the MDM to understand which functionality or components really are needed for data access control.
  - For single services (like catalogues) can set be up a single instances - but not as a part of the release. It would require developers to help, support and configure it.
  - Coexistence is required

LCG 2.7

gLite 1.5

gLite 3.0

- **Task forces concept**
  - Originally suggested for the HEP community
    - 4 task forces (ALICE, ATLAS, CMS and LHCb)
  - Biomed task force also set up
    - Representatives: J. Montagnat, C. Blanchet, I. Blanquer

  - How does it work?
    - HEP:
      - *Very focused on delivering a working system for mid 2007 (LHC start up).*
      - *Natural way of operating in HEP environment*
      - *Active (outside the TCG) since summer*
    - Biomed:
      - *Several activities (Data Challenge, gLite Testing, …)*
      - *…*

- **"Short-lived" group**
  - Technical advisory to the TCG
  - Clear timeline (e.g. 3 months)
  - As a rule, people from <u>different</u> communities
    - Not only applications (for example, people from JRA1)
    - Not only from a single applications
  - A few of them are just starting
    - Not 1 size fits all
    - Sometimes existing working groups can "serve" as a TCG WG for a given amount of time (and then continue at their own pace)

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		Mandate	Chair and membership	TCG contact	Date	Working group web site
	SDJ	The **Short Deadline Jobs** has the main objective to address the problem of short jobs. We consider jobs of a few minutes computation times, where the QoS requirement is mainly latency. The issues are: to provide QOS guarantees for SDJ, while the current scheduling allows only for best effort; and to limit the grid submission and scheduling overhead. The mandate of this group is to analyze the application needs for short jobs, to explore the tradeoffs between application requirements and minimal evolution of existing software and services and finally to propose corresponding technical solutions.	Cécile Germain-Renaud C. Loomis C. Blanchet C. Grandi D. Kranzlmueller D. Liko E. Laure F. Prelz F. Hemmer I. Blanquer J. Moscicki J. Montagnat M. Lamanna F. Pacini	C. Loomis	15-DEC-2005 → 15-MAR-2006	http://egee-na4.ct.infn.it/wiki/index.php/ShortJobs

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| MDM | The **Medical Data Manager** working group is developing a secured service dedicated to access and manipulate medical images and associated metadata from the grid. The working group mandate is to refine medical application needs for data management, in particular critical security requirements, and provide a service compatible with the DICOM medical standard for storing, and accessing in a controlled manner to the data. The service is build on top of the gLite (1.5) data management services (fireman, gliteIO, hydra catalog, FTS), the AMGA metadata manager, and an interface to DICOM medical servers. It exposes a standard SRM interface and provides data anonymization and encryption for privacy control.l | Johan Montagnat Daniel Jouvenot Christophe Pera Peter Kunszt Akos Frohner Ricardo Delgado Birger Koplitz | Johan Montagn at | 15-DEC-2005 → 15-MAR-2006 | https://uimon.cern.ch/twiki/bin/view/EGEE/DMEncryptedStorage egee-biomed-eds-taskforce@cern.ch |

MPI		Cal Loomis	Cal Loomis	15-DEC-2005 → 15-DEC-2006	http://egee-na4.ct.infn.it/wiki/index.php/Parallel Jobs

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- **NA4 is represented by Cal Loomis**
  - and Massimo Lamanna as alternate

- **We meet every week with the NA4 steering group**
  - Cal, Massimo + Vincent, <u>Roberto</u>, Johan and Frank
  - Small meeting to coordinate ourselves
  - Just before the weekly TCG meeting

  - So I would encourage to use the standard contact lines inside your community but do not hesitate to contact us directly