JRA1 and SA3

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Topics

- Recommendations to JRA1 from the II EGEE review
- Convergence plans from gLite and LCG-2: gLite 3.0.0
- Role of JRA1 in the new process
- Integration & Testing in the new process: SA3

Recommendation 28

Clarify and advertise a more conservative (in term of time span) and comprehensive release cycle plan for gLite

- **This is handled by SA3 in the new process**
- **Major releases every 3-4 months**
  - Upgrades of individual service in-between
  - Releases synchronized with large scale activities of VOs (SCs)
- **Support clients for 3 releases (old/ current/ dev/) on UI's and WN's**
- **Try to keep servers backward compatible as much as possible**

Recommendation 30

Investigate the deliverables of other international grid R&D activities and identify where deliverables could be shared in a mutually collaborative fashion to achieve rapid international interoperations with grids outside of EU

- **Already cooperating on several items (e.g. GLUE, VOMS and VOMRS)**
- **Design team meetings include contributions from several projects**
- **EGEE commitment in contributing to standardization bodies (GGF, DMTF, etc...) is increasing**
- **Developers have been asked to identify possible collaborations with other projects**

Recommendation 31

Identify in the middleware stack which parts of gLite is "conformant" to standards activities within GGF and where it is currently not

- **A survey of gLite middleware is started to identify components conforming to GGF standards and those that don't**
  - Note that some standards are newer than the corresponding gLite middleware!
- **We are already contributing to existing standards and identifying areas where we can contribute**
- **In some cases standards do not exist and we are trying to identify how to propose a new standard**
- **In some cases there are plans to conform to new standards (e.g. JSDL to JDL converter)**

Recommendation 32

Make more effective use of the Industry Forum to realize industrial involvement in the development to achieve smoother technology transfer

- **This needs input from the Industry Forum!**
- **Note that we already have a very good collaboration with Datamat that is developing important parts of the WMS and the UI**

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)**

- **The start of the SC4 on June 1st drives the process**
  - To be installed at all sites the release has to be out by April 30
  - Applications, sites and operations will need 1.5 month to
    - Verify that this is what is needed by the VOs
    - Vos need to integrate with the new release
    - Fix problems (operations, functional, bugs, installation, config….)
    - --------> PPS has to be in the loop
  - Conclusion: gLite 3.0.0 has to be integrated early February

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
      - *Data has been collected, 80+ sites participated*
- **Testing and Certification: During February**
  - Preproduction service as deployment test
  - Based on existing test suites
    - Very little time for merging the test procedures
      - *Will draw on existing expertise and nominate a Test Coordinator*
- **Public Release: End of February**
  - Deploying WMS's in parallel on large sites
  - Small sites can afford just one gatekeeper

Comments on the timeline

- **Next steps:**
  - During SC4 no major changes of core services acceptable
  - Next major release in October
    - Based on uniform build system (ETICS)
  - Service upgrades required by non LHC Vos
    - Have to be provided outside the major release schedule
    - Possible, because there is not much interference

- **Comments:**
- **This timeline is extremely aggressive**
  - Interference between LCG-2_7_0 and gLite-3.0.0
  - January and February are “short months”
    - We can’t ignore CERN’s Christmas break and CHEP
- **But:**
- **gLite-1.5.0 and LCG-2_7_0**
  - Components have been in a release already
  - Should work as they are

What can be in gLite 3

- **If we accept the timeline given we'll get:**
  - Certified:
    - 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 (with LB, CE, UI) of gLite 1.5.0
      - *Integrated with job monitoring*
      - *Information system*
      - *Operations monitoring*
      - *Client tools to switch between new and old*
  - Tested to some degree and with limited deployment support:
    - The DGAS accounting system
    - Data management tools as needed by the biomed community
      - *Hydra, AMGA, secure access to data*

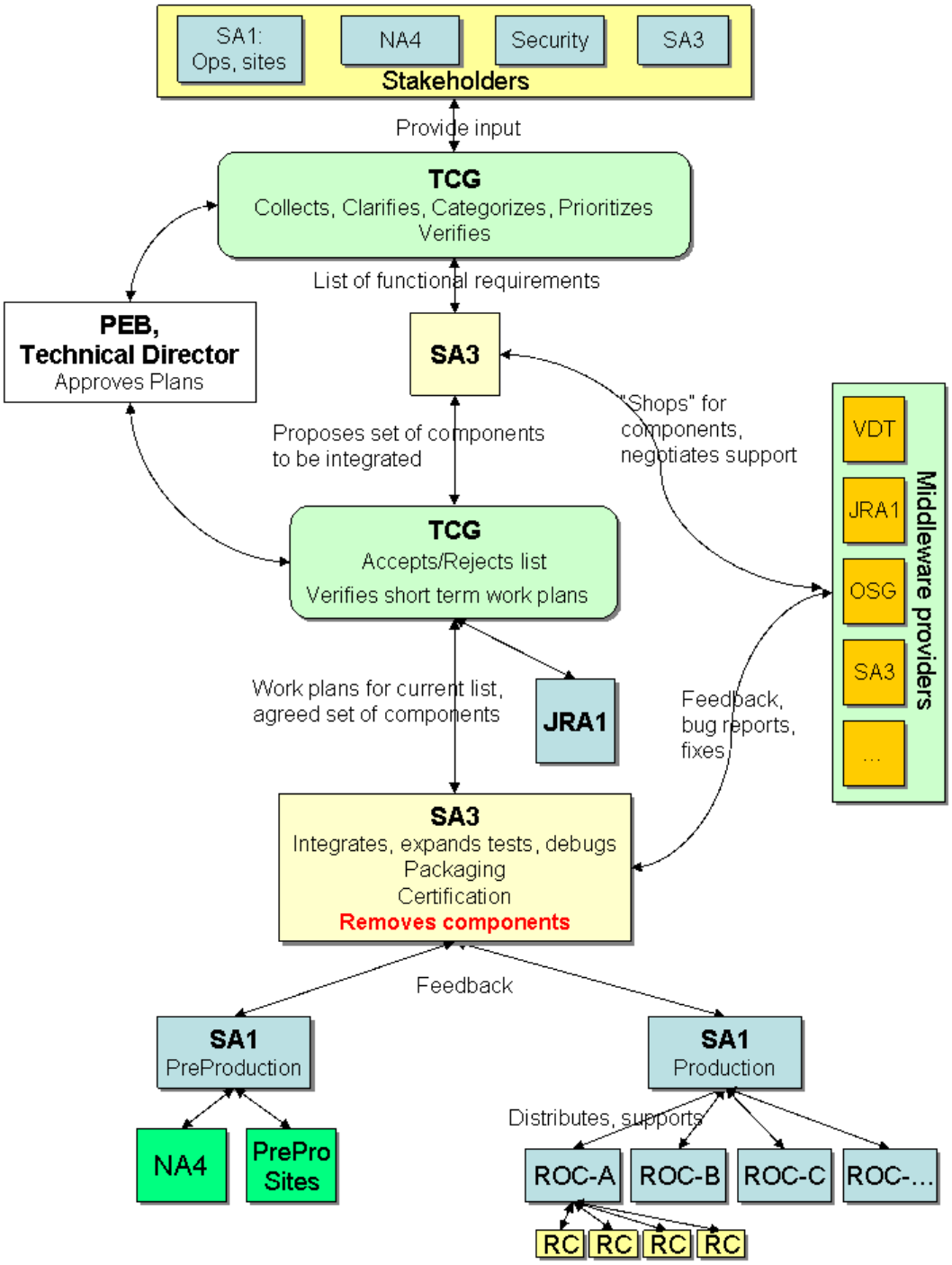
JRA1 role in the EGEE II process

- **There will not be independent releases of EGEE and LCG middleware**
  - Current releases will be merged into a new one called gLite 3.0.0
- **The process to define what components go into a release is defined.**
  - The decision body is the Technical Coordination Group (TCG)
- **JRA1 doesn't have the integration and testing groups any more**
  - Automatic builds via ETICS tools
  - Real integration and testing is done by SA3

JRA1 is not independent in deciding what to develop!

Any component developed outside the process will not find its path to a fully integrated and tested product

- **Note that SA3 will produce the release using not only JRA1 software**
  - this is actually recommended by the EU
  - The EU is also pushing for producing components in collaborations with other projects
- **All requests from applications and sites via the TCG**
  - but again the EU is asking for standardization
  - also security issues enter independently from applications



SA3 role in the EGEE II process

- **SA3 as seen in previous slides has multiple roles**
  - Proposing components to the TCG that fulfill requirements
    - For simple components these can originate from SA3
  - Integrating components
    - Providing build system for the projects
      - Will draw heavily on ETICS
    - Ensure conformance with agreed conventions
  - Packaging for deployments
    - Configuration and installation support (tools, documentation)
  - Testing of releases
    - Feedback to developers
  - Certification of components and releases
    - Deployability, operability, interoperations
    - Scalability, stability, stress testing
    - Feedback to developers, users and TCG
    - Rejection of components that fail defined criteria

Next steps for SA3

- **Now:**
- **Keep current integration and test teams working**
  - As long as needed to get gLite-3.0.0 out of the door
- **Then:**
- **Uniform integration and build system**
  - Lcg and gLite build systems --> ETICS
    - Start after gLite-3.0 release
- **Uniform testing environment**
  - Collect existing gLite and LCG component and system tests
  - Gap analysis
  - Coordinate work with partners to fill gaps and integrate tests
    - Test coordinator + 2 technical people
    - Ongoing activity