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Issues from last All-Hands Meeting
Plans for this meeting

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Information Society

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Enabling Grids for E-sciencE

Issues from last All-Hands Meeting
(updates put in *bold italics*)

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- **Common build system using ant, CruiseControl, Maven**
  - Components should be single language
    - *is this still an issue?*
  - Unit tests and packaging part of the build system (.tar – msi, rpm)
    - Need definition of the services, their deployment, run-time requirements, etc.
      - *Being done*
    - Binary packages are built from cvs – source packages should be checked as well (by building binaries from them)
      - *Done*
  - QA: Coding guidelines, documentation, unit tests coverage
    - Coding guidelines missing
      - *Done in developers guide*
    - C++ auditing tool missing – codewizzard needs license
      - *Codewizzard being used*
- **Is secure access to web-based tools needed?**
  - *Not needed*
- **Scripts for adding subsystems/components available**
  - These should be checked automatically for consistency
    - *Still open*

- **Who will provide service startup/monitoring scripts**
  - *Iteam?*

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- **Scalability with many dependencies?**
  - *Is this still an issue?*
- **Hosting environment for repository?**
  - *Done*
- **Could dependencies be put into a configure script?**
  - To allow services to discover them at installation time
  - *What has been done about that?*
- **What to do with binary tarballs?**
  - These should be specified in a dependencies file
  - *Is this still an issue?*
- **Common configuration vs. individual service deployment**
  - *See configuration session*
- **Documentation/information flow good enough?**
  - *No major problems*
- **More training needed?**
  - *No major problems*
- **Regular ITeam meetings needed**
  - *Done*

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- **Automatic installation for testing testbed?**
  - Could kick-start be used for the moment until we converge to a more stable software stack?
  - We could already start with external dependencies using e.g. quattor.
  - *How much progress has been achieved with that?*
- **Everybody needs to provide unit tests**
  - *Still problems?*
- **Procedure for interface testing**
  - *Has this been defined?*
- **Problems with documentation and responsiveness**
  - *Still problems?*
- **Testing framework**
  - *Started to use QMTest*
- **Savannah misses functionality – can we fix that or switch to something else (bugzilla?)**
  - *Savannah has been improved*
- **Standard SCM cycle is badly needed!**
  - *Deployed and used*

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- **Need volunteers from JRA1 to work together with security in closing the gaps**
    - *MWSCG re-focused*
    - *Security teams formed for particular issues*

- **How to do delegation and authentication of the client**
    - *Delegation port defined*
    - *Are there still issues?*

- **Service discovery**
  - UDDI doesn't fit well what is needed – quite heavy
  - *R-GMA slowly being used – follow up in information session*

- **Logging and bookkeeping:**
  - Status updates are logged from RB/CE
  - Requires guaranteed delivery mechanisms
    - Add capabilities and attributes
  - Prototype end of the year
  - Extended towards job provenance and accounting
  - *Slow progress – not top priority*

- **Accounting**

  - Being developed for LCG
  - How does this related to proposed accounting schema
    - Could be a building block (also what is being done with L&B)
  - Need to take care not to diverge from LCG

- **Job Monitoring**

  - Capture the output of the job itself by either
    - Job calling I&M (e.g. using log4j)
      - *Difficult – job needs to be modified*
    - Job monitoring service which forwards messages to I&M
  - Not clear about use case and approach

This is per VO – how does that confirm to lightweight VOs?

- **Is there any crawling mechanism?**
  - Might have consistency problems; but configuration files also cause problems
- **Should be more like DNS**

- *Any progress?*

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- **Should input files be taken into account at all during matchmaking time?**
  - *yes*
- **Where is fine grained authorization on files checked?**
  - *At the catalogs*
- **Where are ACLs stored**
  - *At the catalogs*
- **Does the WMS move data?**
  - *Yes, but is there some implementation?*
- Is there a "central" instance knowing about replica locations (at least sites) or is this information only local at sites?
  - **Some "central" instance is needed for the WMS!**
  - *This is the file catalog – query interface defined*

- **Local space management (on WN)**
  - Could 'tactical' SE help?

- **Is metadata handled by the job?**

- **Output data merging – who does that?**

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- **Provide library for POSIX I/O**
  - Daemon authorizes access
  - *Done – gLite-I/O*
- **Problem with writing files: problem with synchronization**
- **Problem with new files: how to resolve names?**
  - Should be possible with giving LFNs

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- **In the long term, interfaces (GAS and service) need to converge – GAS is no excuse to freely change service interfaces**
- **What's the role of the information system in that scenario**
- **Does GAS require additional things to normal clients/WSDL?**
  - *Follow up in design team*

- **Nickname use to overcome problems of changing certificates**
  - *What's the conclusion on that?*

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- **Is there any difference between software packages and data?**
- **Operation requirements need to be taken into account**
- **Could it be used for user code as well?**

- *Prototype exists; discussions with applications, follow up in pm session*

- **Faults & Versioning**
  - Should have a common fault base – GliteBaseFault
  - Or should we just have an inventory?
  - How to expose the version of the service?

- **Messaging**
  - Should use existing tools – which ones?
  - Relationship to techniques for overcoming outbounding connectivity restrictions
  - Who are the customers of it?

- **Logging**
  - Need common message format
  - Need common logging levels
  - Where does logging information go

- **Service administration and mgmt**
  - Common administration port type per service?
  - Need to be integrated in existing ways of doing it on different platforms
  - Packaging influences what will be done

- **Who is taking care of that?**
    - Integration team would be the natural focal point as well as for configuration

Plans for this meeting

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- **Sort out open problems**
  - In the individual sessions

- **Prepare for 2nd EGEE Conference**
  - Joint sessions with SA1/JRA4/NA4/NA3

- **Fix which components will be part of RC1**
  - This needs then to be discussed with SA1 and NA4 at Den Haag

  - What follows is my current assessment based on release plan
  - Need to finalize by end of this week

- **WMS**
  - Needs to include task queue and ISM
  - ISM adaptor for CEMon is still missing! ☑

- **CE**
  - Globus gatekeeper, condor-C, blah to LSF and PBS ☑
  - CEMon

- **L&B** ☑

- **R-GMA**
  - pre-WS version ☑

- **Catalogs**
  - AliEn file catalog, local replica catalogs (on Oracle and mySQL)
  - Fireman interface
  - Messaging system for updating the FC ☑

- **Data Management**
  - FPS/FTS ☑

- **Accounting**
  - How much tested?
  - How does it relate to LCG-2 accounting? ?

- **VOMS**
  - Installation on SL3?
  - This is a show-stopper for security ?

- **AliEn components**
  - What does Alice deployment mean
  - GAS ?
  - Packagemanager