



# **JRA3 Security**

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on behalf of

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# Clarifying the relationship between the work of JRA3 and the LibertyAlliance.

#### Authentication and Authorization (AA) mechanisms:

- Both EGEE (Grid) and Liberty Alliance (LA) AA mechanisms are converging to a common format for exchanging subject assertions: SAML.
- Note, the use of SAML as a common syntax is nowhere near complete when interoperability is required.
- The semantic meaning of the subject assertions will need to be bridged.
- o Grid security mechanisms are designed that AA are separated functions.
- Allows a single common user identity to be used within many virtual organizations.
- Eases burden on the end user and allows individuals to participate "as individuals" in such collaborations.



Clarifying the relationship between the work of JRA3 and the LibertyAlliance (cont.)

#### **Trust Fabrics.**

- The account federation approach on which LA (also Shibboleth) are based originates at the user home organizational (UHO) level.
- o Typically requires federation agreements between organizations.
- Therefore, Grid authentication is based on national trusted third parties (CAs) that federate amongst each other.
- o This trust fabric can then be used by all virtual organizations and infrastructures (EGEE, DEISA etc).
- o Resource providers thus need only trust a smaller number of CAs.
- BUT, nothing hinders an organizational trust anchor to be part of a PMA.
- oThere is probably a scalability issue (50?, 100?) due to social andhuman issues in trust.



**Stronger involvement in leading standards** (Comment from Satoshi Matsuoka to the Concluding Remarks by Fab)

In the field of Grid security, EGEE is well represented in the standardization work:

- Co-chair of Security in GFF, and the work on
- EUGridPMA



## EU Review Q&A - Feedback on Security

Other questions at the EU Review were on: **Requirements quality (applications representation)** Amount innovations vs reengineering Social related security issues Statistics on what it takes to compromise EGEE Involvement of industrial partners Scope of the credential store No new comments to the answers already given at the review.

A number of Security questions were on the subject of site and operational security. All covered by SA1.



No changes to the Security work required from the original TA, or the EU Review.

The deliverables and milestones are described on the next couple of slides.



gLite - Reengineering work, security

### Follows the deadlines of JRA1

- Incremental releases (bug fixes) are foreseen on a regular basis for the whole period.
- March 2005: Release 1.
- May 2005: Revision of the architecture document.
- June 2005: Revision of the design document.
- September 2005: Test plan for Release 2.
- October 2005: Functionality of Release 2 will be frozen.
- November 2005: Integration of Release 2.
- December 2005: Release 2 delivered to SA1.



## gLite - Reengineering work, security (cont.)

### **Current status**

- 5th MWSG, Feb 23-24, gave feedback on release plan.
- Release plan to be synchronized with resource plan.
- Suggestion of release plan to be sent to PTF for final comments.
- Release plan will be incorporated with JRA1 release plan.



Enabling Grids for E-sciencE

## **Deliverables and Milestones (1/4)**

#### **PM12**

MJRA3.6 First revision of the Security operational procedures document

MJRA3.7 The document describing the framework for policy evaluation is expected to be accepted in GridPMA policies, and determination of the CA service authorities for EGEE.

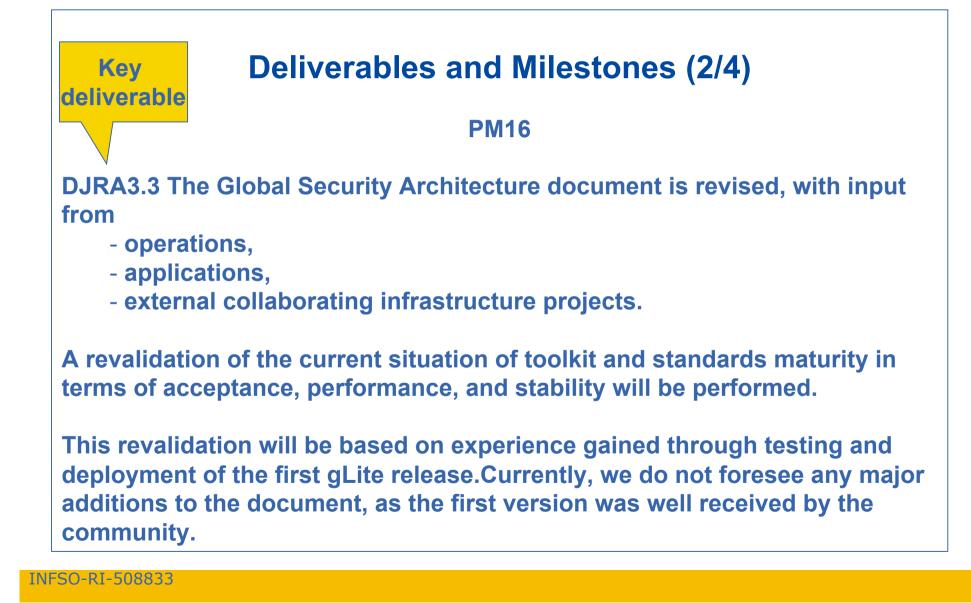
Also:

By PM12 all EU member states active in Grid projects will have a national accredited Authority.



# 15 Months Plan - Deliverables and Milestones

Enabling Grids for E-sciencE





## **Deliverables and Milestones (3/4)**

#### **PM18**

MJRA3.8 Second revision of the Security operational procedures document.

MJRA3.9 Set-up of accounting techniques and distributed budgets (document)

This milestone corresponds a documented assessment of the work and experience gathered with the basic accounting infrastructure already deployed.

It will highlight what remains to be done to provide a secure, deployable quota allocations and enforcement mechanism.



# 15 Months Plan - Deliverables and Milestones

Enabling Grids for E-sciencE

## **Deliverables and Milestones (4/4)**

#### **PM24**

MJRA3.10 Third revision of the Security operational procedures document.

DJRA3.4 Final report on security infrastructure will be produced.





- **1.** Response to EU Review completed for this time.
- **2.** Deliverables and milestones as in the original TA.
- 3. Key deliverable is DJRA3.3 The Revision of the Global Security Architecture document
- 4. Main challenge is the gLite reengineering work. This is as part of JRA1, and the detailed planning is under way, after input from MWSG, later PTF.