

JRA3 PM18 Deliverables.

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- Deliverables.
- MJRA3.9.
- Present Status.
- Summary.

PM18 Deliverable(s).

- From:

<http://egee-jra2.web.cern.ch/EGEEDJRA2/EUDocuments/Deliverables/Deliverables.htm>

- MJRA3.5 Secure Credential Storage procedures.
PEB approval (22/09/05).
- DJRA3.3 Global security architecture (first revision)
PEB approval (30/09/05).
- MJRA3.9 Set-up of accounting techniques and distributed budgets
TOC (18/08/05).
EDMS link sent to moderator 30/09/05

MJRA3.9 Current Status.

“Set-up of accounting techniques and distributed budgets”

- The document gives a description of the current situation on the accounting and quota management in EGEE.
- Recommendations for the future are given.

MJRA3.9 Current Status.

- Introduction
 - Text Done. **Glossary needed.**
- Executive summary
 - Text Done. **Needs editing.**
- Background
 - Four accounting techniques:
After-the-fact; Quota enforcement; Ticket-buying; Resource market.
 - Text Done.
- Current Situation
 - **EGEE accounting.**
APEL; DGAS; Storage Accounting.
 - Text Done.
- Future
 - Text Done. **Needs editing.**

EGEE Accounting Systems.

- **DGAS** (<http://www.to.infn.it/grid/accounting/>)
 - Uses GIIS/GRIS for info.
 - Currently DGAS is deployed extensively (?) and used in INFN.

INFN-GRID	gridit-rb-01
EGEE-COMMON	egee-rb-01.cnaf.infn.it
EGEE-ATLAS	egee-rb-02
EGEE-CMS	egee-rb-03, egee-rb-04
 - Just been integrated to the gLite release 1.4.
- **APEL** (<http://goc.grid-support.ac.uk/gridsite/accounting>)
 - Takes info, from GIIS, Gatekeeper, Batch System, System logs. **Not a real-time system.** Published through RGMA Mon.
 - Accounting of CPU resources consumed on a Grid AFTER completion.
 - Deployed throughout Europe. eg. in the UK, all GridPP tier-2s use APEL. Monitors approx 120 CEs.
 - Can process data from DGAS, NorduGrid SGAS.

A full EGEE Accounting/Quota system.

- What is needed?
- APEL-DGAS integration.
- DGAS works with the gLite WMS; LCG/gLite are different grid environments, a number of issues:
 - Normalization of data
 - Ownership of Data
- Both systems publish after-the-fact system usage.
- Accounting not just jobs, also about network usage and storage.
- To enforce a quota on a user some real-time data is needed.
- **Needed: The real-time “quota enforcement” system.**

Conclusions.

- Work underway by JRA3 “CERN” cluster.
- Goes to reviewers today (yesterday)?
EDMS link sent to moderator 30/09/05

“We recommend that one of the current accounting systems should be selected as the basis for a close-to-real-time accounting system. ie The information should be as up to date as possible so that a user’s or VO’s usage quota can be determined as jobs are submitted. The quota enforcement system should act as an information bridge between the accounting software and the Grid workload management system.”