

Release Procedure and Priorities for September Release

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Towards Testbed 3



Testing & Bugfixing



gcc3.2.2/RH7.3 (RH8/9 test on WN/UI); VDT update?



VOMS & Security (ACLs, LCMAPS,...)



Scalability/Stability measures (RLS,R-GMA,MSS staging,...)



New Functionality (gridOpen, DAGs, ...)



(Slide presented at Barcelona Conference)

Major Changes to 2.0

- ◆ gcc3.2.2 default compiler; RH7.3 default OS
- ◆ VOMS deployed
- ◆ VOMS aware services (Data mgmt, SE, LCMAPS & ...)
- ◆ Full deployment of RLS
- ◆ R-GMA registry replication
- ◆ DAGMan scheduling and job partitioning
- ◆ SRM interface to SE
- ◆ Data pre-fetching
- ◆ Replica subscription service

Mostly stability and scalability measures + Security

Priorities per WP

- ◆ Top priority for everybody

Bugfixing and support for 2.0

- ◆ WP1
 1. Direct interaction with R-GMA
 - Based on experiences gained by integrating L&B with R-GMA
 2. VOMS support
 - Small changes in UI, proxy renewal
 3. DAGMan scheduling and job partitioning
 4. Data pre-fetching
 - Depends on WP2
 5. Accounting and advanced reservation
 - Strong dependencies on underlying systems (RMS); probably only demonstrator outside TB

Priorities cont'd

- ◆ WP2
 1. Full RLS deployment
 2. VOMS aware security
 3. File pre-fetch
 - Needed by WP1
 4. Replica subscription service
 - First step towards proxy service for supporting sites w/o outbound connectivity
 - **Must not compromise work on support, RLS, and security!**

- ◆ WP3
 1. R-GMA registry replication
 2. VOMS aware security

Priorities cont'd

- ◆ WP4
 1. LCMAPS framework + plugins (VOMS,...)
 2. LCAS Server + plugins (VOMS,...)
 3. Fabric monitoring and fault tolerance

- ◆ WP5
 1. Asynchronous interaction
 2. SRM interface
 3. Help SE setup for WP9/10
 4. VOMS aware security



Release Plan

- ◆ <https://edms.cern.ch/document/382573>
- ◆ 7 integration slots (23/06, 02/07, 11/07, 22/07, 31/07, 11/08, 20/08)
- ◆ Slots might be shared if there are no conflicts
- ◆ Functionality freeze on September 8th
 - Need running testbed 1st November for final evaluation
- ◆ Bugfixes will be continuously integrated on a best-effort basis

First Steps

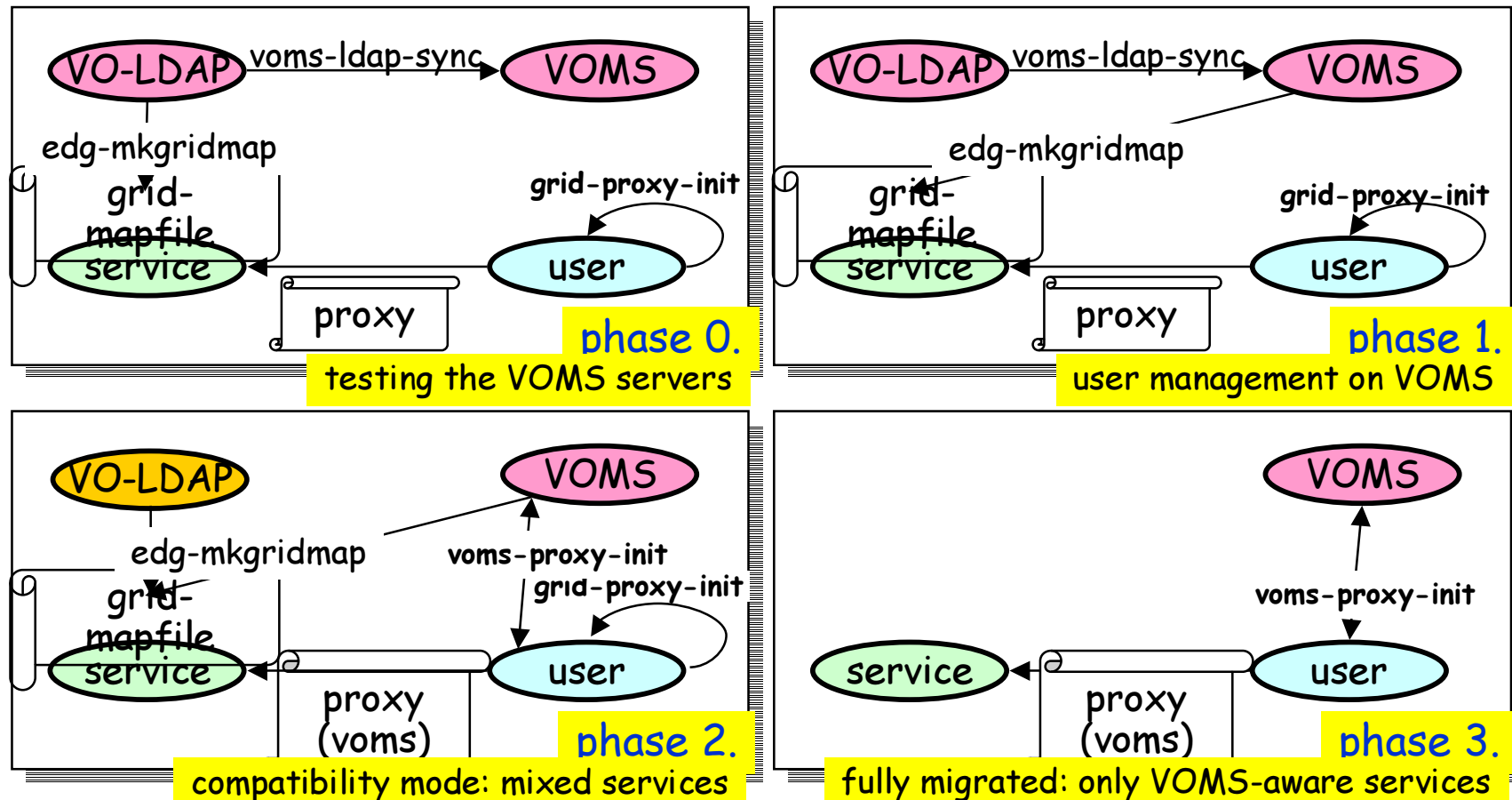
- ◆ upgrade to gcc3.2.2
 - Autobuild set up
 - Most packages compile OK, some problems for WP1 and 4 with VDT (grid support center is investigating)

- ◆ How to support 2.0 with gcc2.95?
 - Integration TB will be upgraded to gcc3.2.2 after 2.0 has been deployed on the application evaluation TB
 - gcc3.2.2 should propagate quickly to the application evaluation TB
 - LCG deploys 2.0 with gcc2.95 – will require bugfixing support
 - Proposed solution: integrate fixes for 2.0 on the LCG certification TB and make sure fixes are also applied on the integration TB
 - Should try to hand over gcc3.2.2 release to LCG asap

First Steps cont'd

◆ VOMS deployment

- Server manually set up at several places
- Work on auto-config ongoing – start testing soon



Allocated Slots

- ◆ 11th July
 - WP2: Full RLS (RLI+LRC)
 - WP4: LCMAPS framework and plugins (VOMS, posix, pool)
- ◆ 22nd July
 - WP2: VOMS aware data mgmt tools, Replica subscription service
- ◆ 11th August
 - WP3: R-GMA registry replication, enhanced mediator, VOMS awareness
 - WP5: VOMS based security
- ◆ 20th August
 - WP4: LCAS server + VOMS plugin, final monitoring & FT
 - WP5: Asynchronous calls for SE (staging)

No request from WP1 yet!

Demonstrators Outside TB

- ◆ Some components may only be installed outside the TB as demonstrators:
 - WP4 installation and configuration system
 - Too much effort to port full EDG to it
 - WP4 RMS
 - Intrusive to local batch systems and hence not easily deployable at all sites
 - WP1 accounting
 - Depends on information provided by WP4 RMS

- ◆ Support for more MSS
 - Castor and ADS currently supported
 - HPSS, WP9, WP10 systems to follow, SARA?

Release Procedures

- ◆ Major problems during 2.0 integration:
 - lack of testing
 - rpms did not install
 - LCFGng components buggy
 - Interfaces between WPs not clear
 - Despite ATF trying hard to nail them down
 - Glue schema interpretation not clear/changing

- ◆ Actions taken:
 - ATF guarding external interfaces of each WP (changes must be approved by ATF)
 - Similar plans for GLUE schema (will be discussed next ATF)
 - Slightly modified release procedures
 - QAR check compliance with release procedures
 - Unified CVS repository and all rpms delivered through autobuild

Revised Release Procedures

◆ Bugfixes

- Every change must be documented in bugzilla
- RPM announcement form re-activated
- 24 hour ve

◆ New compo

X: delivery of documentation and test reports; component must be available for 3rd party testing (ideally on LCFGng test machine)
- *done by WP*

X+5: final RPMs and LCFGng components delivered; tested independently
- *done by ITeam*

X+7: WP concerned starts integration testing on TB
- *done by WP*

X+11: stop integration work; re-install affected machines from scratch
- *done by ITeam*

X+14: end of integration

• Timelines must be firmly kept
• Any slip will cause loss of the slot
• New slot will be assigned if possible

After the September Release

- ◆ Functionality freeze with last integration slot (20/08-8/09)
- ◆ Iterative bugfixing mode
- ◆ Applications start intense evaluation – will require quick reactions to fix show-stoppers
- ◆ Need to write the final deliverables:
 - PM 33 (September):
 - Components and documentation for the final release (WP1-6)
 - PM 36 (December):
 - Final evaluation reports (WP1-11)
- ◆ 1st quarter of 2004:
 - Preparation for the final review (~last week of Feb.)

Summary

- ◆ Ambitious plan for the next 3 months
 - Vacation period!
- ◆ There are still many open problems and a lot of interesting problems to be solved –
BUT – don't do more than what is specified in the release plan
 - Better to have few but sufficiently stable components
 - Items low on the prioritized list might even fall off
 - Even if we end up only with 2.0 functionality but with a high level of reliability EDG will be a success!

Stability, Stability, Stability

Scalability, Scalability, Scalability