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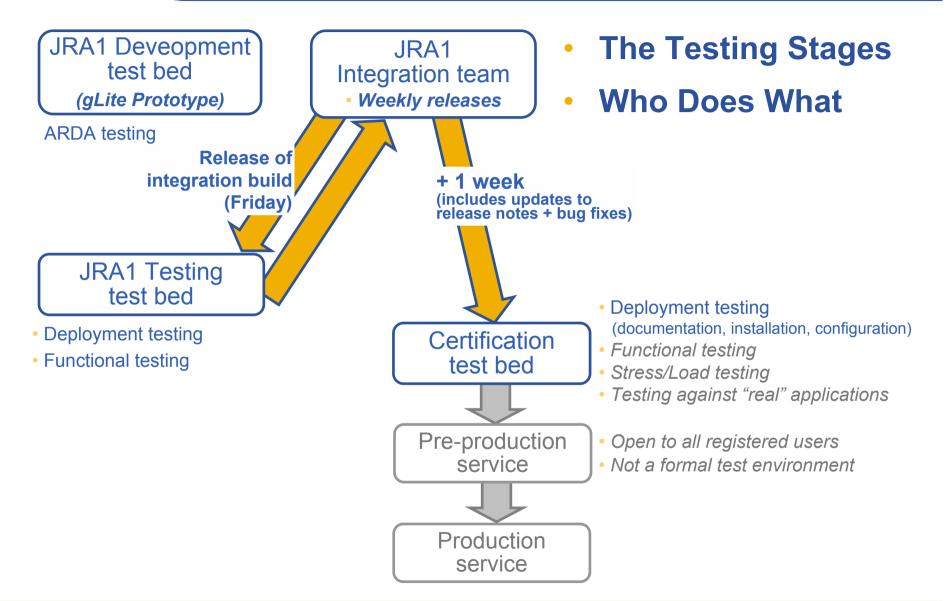
Introduction

Description of the testing process

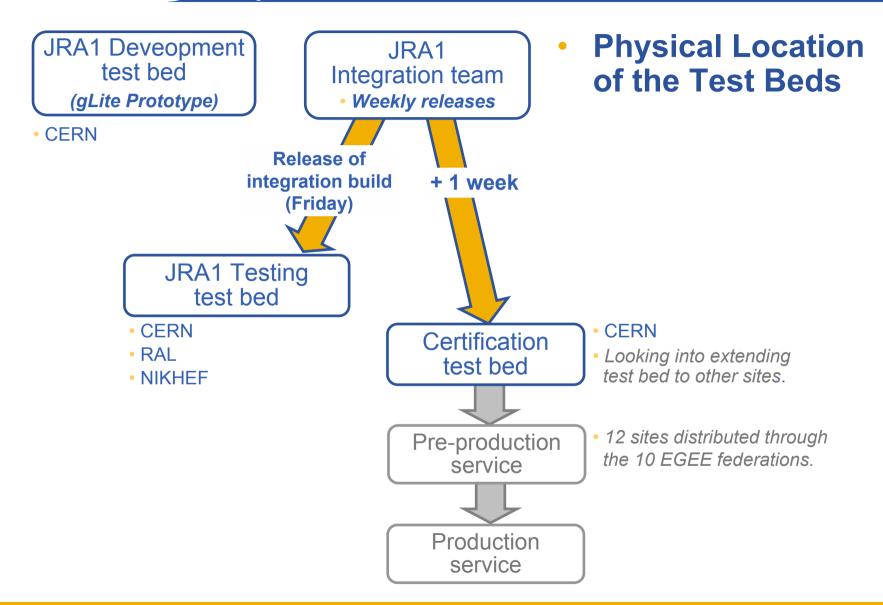
- The testing stages
- Who does what
- Physical location of test beds
- Organisation of the testing effort
- Goals, Priorities and Timelines
- Current status

Description of the Testing Process (1)

Enabling Grids for E-science



CGCC Description of the Testing Process (2) Enabling Grids for E-sciencE





- Since mid February JRA1, SA1, NA4 and ARDA have been co-ordinated in their testing efforts.
- Daily morning meeting
 - status briefings from each group
 - Discussions on "hot" topics
 - minutes at

http://egee-docs.web.cern.ch/egee-docs/list.php?dir=.\Testing\Meeting%20minutes\&

- Weekly status reports
 - <u>http://egee-docs.web.cern.ch/egee-docs/list.php?dir=.\Testing\Testing%20Reports\&</u>

Goals, Priorities and Timelines (1)

• #1 Goal:

To have a working version of gLite on the pre-production service by the end of March 2005!

- The pre-production service will then be used to compare gLite to LCG-2 and identify any areas where improvements need to be made to the gLite middleware.
- Priorities
 - 1) To port the current LCG-2 certification test suite to gLite (by 23 March)
 - The test cases will be as close as possible to those in the LCG-2 certification test suite.
 - Some of the tests need to be re-written.
 - JRA1, SA1 and NA4 are all contributing to this effort.
 - 2) Create a working gLite cluster against which tests can be written and tested (by 11 March).
 - 3) To port the Site Functional Test suite to work with gLite (11 March).
 - SFT is a set of tests, run on a daily basis on the LCG production service, that are used to monitor the state of middleware services.



- In parallel, testing will continue on the JRA1 testing test bed and on the Certification test bed.
- Functional tests will start to be written for VOMS and R-GMA <u>if</u> people are made available for this task.
 - There are currently no functional tests available to cover these areas on the JRA1 testing test bed.



- gLite code is frozen except for File Transfer Service and File Placement Service.
- Ul is not yet released to Certification
 - This is expected in today's release.
 - Currently using afs based gLite UI.
- FTS and FPS is expected to be stable within 1-2 weeks.
- Integration builds containing bug fixes are released weekly.
- Need to write 14 tests for Certification test suite.
 5 of these test the FTS/FPS.
- Need to review priority of bugs to escalate those which will cause the certification tests to fail.
 - We would anyway expect these to be high priority bugs.



- Weekly functional test reports produced.
- JRA1 testing team have a working gLite test bed (build I20050225).

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- Certification test team do not yet have working gLite service (build I20050228)
 - As of Friday the jobs were failing in workload management (proxy not passed from WMS to WN). This is under investigation with JRA1.
- There is currently no gLite User Guide (due end February)

Enabling Grids for E-sciencE

- Site configuration model is good and meets SA1 requirements. However, drawbacks were introduced with build I20050218:
 - Large file: flat file of about 2000 lines to configure 10 services (scales with the number of WNs)
 - Logical separation of User, Advanced, and System level parameters (strong point in the previous configuration model) has been broken.
 - Concurrent editing of the site configuration file is difficult.
 - File is published on an unprotected public web server.
 - These points are being discussed with the JRA1 Integration team.
- Deployment testing (installation and configuration) of last release to Certification showed up no significant bugs in this area.



Current Status (NA4)

- NA4 have been writing tests for workload management.
 - These tests might be re-used for the Certification test suite.
- NA4 testers received 2 day informal "training" last week, with JRA1 and ARDA.
 - Covered gLite
- NA4 will now start writing some of the data management tests needed for the certification test suite.



- ARDA testers have raised questions about the relative performance of LCG File Catalogue and the Fireman file catalogue.
 - Further testing is being undertaken to obtain data which will give a clear and fair comparison of the services.
- ARDA testers have also seen a job failure rate of around 10% for "hello world" jobs which are submitted to empty queues (in push mode).
 - This is on the JRA1 development test bed (gLite Prototype).
 Certification team will carry out similar testing.
- In addition, ARDA team saw an average job start up time of 9 minutes for the above jobs.