



EUROPEAN MIDDLEWARE INITIATIVE

SA2.6 Task: EMI Testbeds

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Status Report: 1st Year Overview



- Impact / Cross Activity:
 - Inter-Component Testbed: 1st place where all products must work and talk to each other
 - Deployment testing of EMI-1 ↔ RM
 - EGI-TF training (04/2011- Vilnius) on it (with NA2)
 - EMI-1 preview activity (with Release Manager / Project Deputy Dir.)
 - Not so much feedback by Product Teams

Report: InterComponent Testing Testbed

- **106 Instances** deploying PreEMI + EMI products (Prod +RC)
- **Doc:** <https://twiki.cern.ch/twiki/bin/view/EMI/TestBed>
- **Access:** **emiUI + testers.eu-emi.eu** certificate needed
 - ARC: `ldapsearch -h arc-emi.grid.upjs.sk -p 2135 -x -b 'mds-vo-name=ARC-EMI,o=grid' -s base giisregistrationstatus`
 - gLite + dCache: `ldapsearch -x -H ldap://certtb(rc)-bdii-top.cern.ch:2170 -b mds-vo-name=local,o=grid`
 - UNICORE: [https://zam052v01.zam.kfa-juelich.de:8080/EMI-REGISTRY\(-DEV\)/services/Registry?res=default_registry](https://zam052v01.zam.kfa-juelich.de:8080/EMI-REGISTRY(-DEV)/services/Registry?res=default_registry)
- **Availability:** II - EMI Quarter (avg > 89,7%) ; III - EMI Quarter (avg > 98.3%)
- **Support:** 34 GGUS tkts (including tracking of activities with not SA2)
- **Current Usage:**
 - Fast changing snapshot of pre-EMI + EMI1 RC middleware: no redundancy, no performance testing
 - EMI-1 Deployment testing
 - External preview + EGI-TF training partially on these resources

Report: Inter-Component Testing

- Feedbacks to PTs from EMI-1 Deployment Testing:
 - Deployment of EMI-RC2/3/4 and Final Release
<https://twiki.cern.ch/twiki/bin/view/EMI/Emi1CoverageSavannahTrackerConvention>
 - Many feedback to RM about installation/configuration basic testing
 - Product Documentation:
 - Yaim Configuration and variables setting is complex
 - Standardization: site admin/users should find same type of info in same links/section for every emi product
 - Cross Products documentation too confusing: ex. Cream + Argus + MPI + GlexEc + WN
 - Missing “Setup OK” Test: how do I know the setup was OK ?
 - Automated testing would help a lot → NAGIOS PROBES?

Report: EMI-1 Preview Activity

- EMI-coordinated (DeputyPD, RM, SA2.6) release assessment with external entities (aka volunteers)
 - Volunteer 'sites' providing hardware resources and administration effort to install and configure products
 - Sites/Organisations/NGIs: AS, CSIC, DESY, INFN-Catania, LIP, LitGrid, PL-GRID, TCD
 - Projects: D4Science-II, GISELA
 - Others: HealthGrid, maatG
 - Volunteer 'user communities' providing effort to test the products deployed by volunteer sites using community-specified use cases
 - ATLAS (via LIP), D4Science-II, EDGI, SHIWA, Mapper, WeNMR

Report: EMI-1 Preview Activity

- MoUs in place/being established (5) (DPD)
- Time-based activity:
 - Sites: Deployment (2 weeks) *followed by*
 - Testbed team: Run tests on deployed services (1 week) *followed by*
 - User communities: Use case testing (2 weeks)
- Release preview wiki, including service inventory:
<https://twiki.cern.ch/twiki/bin/view/EMI/EMIReleasePreview>
- Site deployment started on May 25

Report: Large Scale Testbed

Goal: Provide an infrastructure for large scale acceptance, scalability and interoperability testing of EMI products.

Focus is on stressing the service reproducing Production Env

IMPLEMENTATION:

- **User-Driven:** ongoing EMI-Preview scenario with some extra configuration to make the infrastructure usable from volunteers users
- **Developer-Driven:** Demand and Supply scenario
 - **DEMAND:** Product Teams / Technical Area Leaders submit a request describing the test and testing scenario.
 - **SUPPLY:** A community of EMI partners available to participate to specific tests campaigns with X effort, Y resources for Z time to test P1, P2,.., PN product.

Report: Large Scale Testbed

- Documentation:
<https://twiki.cern.ch/twiki/bin/view/EMI/LargeScaleEMITestbed>
- No Infrastructure in place yet! → Difficult to obtain partner stable commitment, impossible before EMI1 release.
- TWOFOLD ACTIVITY:
 - **WITHIN EMI:**
 - Collected a list of products for which large scale testing is required (not EMI priority in 1st year)
 - Large Scale Testing not mandatory for PTs: missing PT test plans/schedule
 - **WITH EMI EXTERNAL PARTNERS:**
 - Finding, Motivating, Coordinating and Supporting them
 - EMI-1 Preview is ongoing (started 25 May): hopefully this infrastructure/community will evolve into Large Scale Testing Infrastructure/community

Status Report: Lesson Learned

- Inter-Component testing:
 - Deployment testing EMI-1: very useful step for release, process need some improvements (is testbed only stage between single PT/component and Release ?)
 - Feedback:
 - Standardize Documentation: same info in the same places
 - Improve Cross Product Documentation
 - Definition of SETUP OK, basic functionality tests
- EMI Preview / Large Scale:
 - External community: just started, some comments similar to SA2.6 feedback above
 - Testing effort on large scale testing



Thank you!

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