EGI-InSPIRE

TSA1.3: 2011 OBJECTIVES

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Abstract

This document describes the objectives for the year 2011 for the EGI TSA1.3 task: Service Deployment Validation.

I. COPYRIGHT NOTICE

II. DELIVERY SLIP

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III. DOCUMENT LOG

Issue	Date	Comment	Author/Partner
1	18-01-11	First draft	Mario David / LIP Lisbon
2	18-01-11	Second draft: Contribution from Michaela Lechner and Linda Cornwall	Michaela Lechner / KTH
3			

IV. APPLICATION AREA

This document is a formal deliverable for the European Commission, applicable to all members of the EGI-InSPIRE project, beneficiaries and Joint Research Unit members, as well as its collaborating projects.

V. DOCUMENT AMENDMENT PROCEDURE

Amendments, comments and suggestions should be sent to the authors. The procedures documented in the EGI-InSPIRE "Document Management Procedure" will be followed:
https://wiki.egi.eu/wiki/Procedures

VI. TERMINOLOGY

A complete project glossary is provided at the following page: http://www.egi.eu/about/glossary/.

VII. PROJECT SUMMARY

To support science and innovation, a lasting operational model for e-Science is needed – both for coordinating the infrastructure and for delivering integrated services that cross national borders.

The EGI-InSPIRE project will support the transition from a project-based system to a sustainable pan-European e-Infrastructure, by supporting 'grids' of high-performance computing (HPC) and high-throughput computing (HTC) resources. EGI-InSPIRE will also be ideally placed to integrate new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, to benefit user communities within the European Research Area.

EGI-InSPIRE will collect user requirements and provide support for the current and potential new user communities, for example within the ESFRI projects. Additional support will also be given to the current heavy users of the infrastructure, such as high energy physics, computational chemistry and life sciences, as they move their critical services and tools from a centralised support model to one driven by their own individual communities.

The objectives of the project are:

1. The continued operation and expansion of today's production infrastructure by transitioning to a governance model and operational infrastructure that can be increasingly sustained outside of specific project funding.
2. The continued support of researchers within Europe and their international collaborators that are using the current production infrastructure.
3. The support for current heavy users of the infrastructure in earth science, astronomy and astrophysics, fusion, computational chemistry and materials science technology, life sciences and high energy physics as they move to sustainable support models for their own communities.
4. Interfaces that expand access to new user communities including new potential heavy users of the infrastructure from the ESFRI projects.
5. Mechanisms to integrate existing infrastructure providers in Europe and around the world into the production infrastructure, so as to provide transparent access to all authorised users.
6. Establish processes and procedures to allow the integration of new DCI technologies (e.g. clouds, volunteer desktop grids) and heterogeneous resources (e.g. HTC and HPC) into a seamless production infrastructure as they mature and demonstrate value to the EGI community.

The EGI community is a federation of independent national and community resource providers, whose resources support specific research communities and international collaborators both within Europe and worldwide. EGI.eu, coordinator of EGI-InSPIRE, brings together partner institutions established within the community to provide a set of essential human and technical services that enable secure integrated access to distributed resources on behalf of the community.

The production infrastructure supports Virtual Research Communities (VRCs) – structured

international user communities – that are grouped into specific research domains. VRCs are formally represented within EGI at both a technical and strategic level.

VIII. EXECUTIVE SUMMARY

The present document gives the technical description of the SW rollout workflow into the EGI production infrastructure. It is an evolution from the milestone MS402.

This document is of special interest to EGI SA2, to the SW rollout managers, to the Early Adopters of new versions of the SW and in general to EGI SA1.

The process describe herein is part of the EGI TSA1.3 subtask.

TABLE OF CONTENTS

1 EGI TSA1.3: OBJECTIVES FOR THE YEAR 2011.....6

1 EGI TSA1.3: OBJECTIVES FOR THE YEAR 2011

1.1 SW rollout

The main objectives of the task, are:

- To have in place all the technical implementation for the Software Rollout ready for the EMI 1.0 release in April.
  - Work is in progress to implement the required changes and additions in the EGI RT request tracker. It's interface with GGUS and with the EGI SW repositories.
  - Trial tests should be performed in the next few weeks with a close collaboration between EGI SA2, selected Technology Providers and Early Adopter sites.
- To have a network of EarlyAdopters that cover **all** SW components used in EGI.
  - The aim is to have **at least** two EA teams per component:
    - To have redundancy in the tested component;
    - To have at least one of the teams available to perform the test;
    - To increase the level of heterogeneity of the test.
  - Provision of an "Early Adopters" portal, with possible interface to EGI SSO:
    - The main aim is to manage EA teams.
    - Can also contain information about the metrics per team and per NGI.
- To have webpages in place with full information about:
  - Schedules of near future releases, what they should contain, what bugs and issues are fixed or about new features. This should be linked or fetched from the Technology Providers. Should provide only a general overview.
  - Information about the which versions of components and their state in the process of Verification (TSA2.3) or SW Rollout (TSA1.3).
  - Information about production releases, including the access to the Verification and SW Rollout reports.
- To have full involvement of TSA1.7 and DMSU in both the Verification and SW rollout phases.
  - It is perceived as way important the support that EA teams may get from Operations when they are doing the SW rollout tests, such that ROD teams and the operational tools are "aware" of sites doing SW rollout of any given component or service:
  - As a bridge to the Technology Providers. It's not uncommon that some problems that arise in these phases may be easily solved with clarification form the Technology Providers such as to improve release notes or deployment scenarios.
- To have involvement of TSA1.2:
  - Vulnerabilities in the Middleware distributed in the UMD. Ensure that a version of the software where the vulnerability is absent is available in the UMD for installation across EGI in time for the Target Date set by SVG, and that the release notes refer to the advisory provided by the SVG.
  - Support in the SW rollout phase to test the fixes of security vulnerabilities.

1.2 Operational Interoperations

- Operational requirements will continue to be collected from NGIs:
  - Surveys will be periodically conducted to gather information about NGI plans to integrating novel resource types into their e-infrastructure, and to define use cases.
  - Input from infrastructure providers planning to operate different middleware stacks will be gathered. This is also relevant for the integration of EDGI resources.
  - As to Globus, a survey will be conducted in collaboration with the IGE project to understand which Globus resource providers are willing to become part of existing National Grid Infrastructures, and the related timeline for their integration.
- Various NGIs with short-term integration requirements will be identified and dedicated meetings will be organized.
- An evaluation period is needed to see if the current collected requirements and use cases coming from the integration of new storage resources, virtualized computing clusters as e.g. needed for cloud services or MPI clusters etc. are already complete.
- The current collected requirements such as accounting and monitoring need to be integrated into the common operational tool development roadmap. It is an iterative process to check if those requirements were sufficient and redefine them if needed.
- In parallel to this, further requirements for the extension of the operational interfaces currently deployed in EGI for monitoring, accounting, communication, management and support are also expected to come from our collaborations and integration with other distributed computing infrastructures and will be discussed within OTAG.