EUROPEAN MIDDLEWARE INITIATIVE

MSA2.3 - LARGE-SCALE ACCEPTANCE CERTIFICATION TESTBEDS ARE IN PLACE

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MILESTONE REPORT

EMI large-scale acceptance certification testbed operational procedures have been defined.

Note that no stable testing infrastructure has been allocated, since after consulting both potential resource providers (EGI partner) and EMI technical experts, a *demand and supply* model was adopted (details in the ANNEX to this document) because, at this stage, no EGI sites agreed to permanently assign resources for the large scale test beds.

Therefore the milestone achievement relies on the following operational resources and agreements, which are all in place:

- Definition of implementation model for large-scale acceptance testbed
- Definition of communication channels (GGUS ticketing tracker) to submit a testbed requests together with a request template describing all information that must be provided.
- Declaration of intents from EGI project about the participation to large-scale acceptance testbed.

Technical details and full documentation about the infrastructural and operational resources put in place can be found at the following public URL:
https://twiki.cern.ch/twiki/bin/view/EMI/LargeScaleEMITestbed

A summary of contents available are also attached in the Annex of this document.

Annex

Large-scale Acceptance Testbed implementation model

A Large Scale Testbed is necessary to perform acceptance, interoperability and scalability tests. These tests require a different implementation with respect to that of EMI Integration testing testbed, since the main objective is to stress the service under test reproducing conditions as similar as possible to real production environment. Approaching the goal above implementing a stable and monitored testbed infrastructure permanently replicating a production environment is both very difficult to achieve in terms of contributors availability and also very inefficient, being at the same time, expensive to maintain and never fit for any test in particular. Hence the proposal of a "demand and supply" approach, meaning:

- DEMAND: A request of test describing the testing scenario (resources needed, services involved, number of instances, number of users involved etc.etc.).
- SUPPLY: A community of partners (NGI, EGI, PRACE, EMI internal partners) available to participate to specific tests campaigns with X effort, Y resources for Z time to test P1, P2, PN product. Declaring availability just for specific products testing will enhance the chance of having motivated contributors, which is a key aspect for the success of the model.

The role of EMI quality assurance work package to implement this model is to provide operational resources (coordination, communication channels, expertise in testbed setup, general purpose utilities (fake certificates or fake CA generation utility)) to match DEMAND and SUPPLY.

Testbed KPI

Given the *demand and supply* model defined in previous section, key performance indicators for the task must be modified accordingly. Therefore, to match the task KPI of 50 CPU for the first year, the approach is to keep track of the testbeds provided per campaign (x instances for y time) so that the availability target for large-scale testbed resources will be matched statistically.

EGI declaration of intents

Find here reported EGI director informal declaration of intents regarding its participation to EMI large-scale testbed infrastructure.

EGI periodically collects requirements from the user community and the operations community to foster innovation. These are provided to third-party software providers - including EMI - to ensure that the deployed technology meets the needs of these communities.

The partners providing the EGI requirements may participate in pre-release testing activities either with direct participation to testing, or with their own resources to make sure that the software developed meets their requirements, and to verify its usability and scalability in a production environment, as applicable. This activity is voluntary relationship between EMI and the group involved and does not form any part of the software verification or validation activities undertaken by EGI in formally accepting the software from external technology providers.

The Chief Operations Officer and Chief Community Officer can be contacted by EMI and third party software when involvement of EGI partners is felt to be needed in testing activities. In any case, EGI requirements will be collected and tracked in a transparent way to ensure that the interested partners are recorded.