

EGI IPv6 activities: status and planning

Tuesday, 18 September 2012 14:00 (20 minutes)

Description of the work

EGI set up a distributed IPv6 testbed to directly assess the level of IPv6 compliance of the UMD family middleware products.

In collaboration with the HEPiX IPv6 Working Group, direct testing of the behavior of the UMD middleware has been assessed.

Installation, Configuration and Testing of basic functionality of ARC and gLite has been assessed using the IPv6 protocol.

Installing and configuring the services using IPv6 required some specific steps enabling the proper execution of all required steps.

Also, the verification of the proper response by the system using Dual Stack has been carried out.

Starting from Workload Management and InfoSys related components, then moving to other functional domains, an analysis of the overall level of IPv6 compliance in the middleware has been carried out.

Test reports have been written, listing required changes and identified issues.

Link for further information

<http://net.egi.eu>

Wider impact of this work

IPv6 compliance at large seems at hand, not far from being fully achievable.

IPv6 is supported by essentially all Operating Systems, it has been enabled by major internet service providers, it is supported by essentially all European NRENs and the European Backbone GEANT. The situation in USA is similar.

The UMD middleware family products are already with some tech inside well likely to be full IPv6 compliant. What is missing is a final grip to certify the middleware and have it tested in IPv6.

Work has to be done also at the operational tools level to test and verify the proper functioning of the tools using IPv6.

Coordination at all levels with collaborating projects and initiative is vital and fundamental.

An hoped impact for this work is to trigger a general discussion between EGI, W-LCG, EMI, IGE and other tech providers to permanently include IPv6 in the loop of certification and testing&validation activities.

Printable Summary

This will be a joint presentation by the IPv6 team of EGI, open to contributions and inputs by collaborating projects, on the overall status of the IPv6 activities, the identified issues, the level of compliance observed so far in the middleware and the required involved external dependencies.

It will also highlight the current testbed infrastructure, and wrap up the outcome of the testing activities.

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