d4science

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Project full title	**DI**stributed col**L**aboratories **I**nfrastructure on **G**rid **En**abled **T**echnology **4** **Science**
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Procedures and Resources Plan

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SEVENTH FRAMEWORK PROGRAMME
Research Infrastructures

INFRA-2007-1.2.2: Deployment of
e-Infrastructures for scientific communities

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SUMMARY

This deliverable provides an initial description of the D4Science production infrastructure, i.e. the set of hardware and software resources deployed to provide D4Science user communities with a high quality reliable service.

It introduces the procedures and tools that will be exploited for the deployment and maintenance of the infrastructure. Moreover, it describes the organizational structure of the infrastructure by presenting the responsibilities of the different layers of operations, support and management.

The deliverable also details the resources allocated to the infrastructure by the various partners involved and describes the major milestones of the infrastructure deployment plan.

DELIVERABLE DOCUMENTATION

The objective of the D4Science Service Activity is to make available and maintain a stable infrastructure for supporting the activities primarily of its two user communities: Environment Monitoring and Fishery Resource Management. This production infrastructure must be a well-supported infrastructure, running stable, tested and reliable software.

By building on the results of the DILIGENT [1] and EGEE-II [2] projects, the D4Science production infrastructure will allow the creation of Virtual Research Environments (VREs) to support the activities of its user communities.

To efficiently coordinate the operations of the production infrastructure, and consequently provide a quality service to the D4Science user communities, a dedicated web site for this activity has been set up:

http://d4science.research-infrastructures.eu/ServiceActivities/ProductionInfrastructure

This web site gathers all relevant information related to the management of the production infrastructure: partners involved, policies established, planned deadlines, resources allocated, etc. Due to its nature, the site is expected to evolve during the project lifetime as to reflect the progresses in defining the infrastructure. Being based on TWiki pages, the site allows an active and efficient collaboration between the partners involved. This web site represents the real deliverable; this document deliverable has the role to document it.

The "Procedure and Resources planning" deliverable is the first of the "Infrastructure Operation" work package. In particular, it focus on three aspects: (1) the definition of the procedures needed to manage the production infrastructure (the details of such procedures as well as the support tools will be described in a subsequent deliverable: DSA1.2 "Middleware Deployment and Operational Support Procedures"), (2) the organisation of the infrastructure in terms of operation, support and management responsibilities and (3) the definition of a deployment plan introducing resources allocated and deadlines. DSA1.1a represents the plan driving the development of the Infrastructure for the first year, a second version (DSA1.1b) is planned at Month 13 to drive the development of the infrastructure for the second project year. The resulting infrastructure will be documented by MSA1.1 "Production Infrastructure at M6", MSA1.2 "Production Infrastructure at M11" and MSA1.3 "Production Infrastructure at M23" milestones.

As anticipated, the deliverable is provided through the D4Science Production Infrastructure web site. This web site is structured in four main sections:

1. Overview: introduces the D4Science production infrastructure, explaining the different areas of work and how the web site is organized;
2. Organizational Structure: presents how is the infrastructure is organised;
3. Procedure and Tools: defines the procedures to deploy and maintain the infrastructure and lists the tools used to support the infrastructure operations;
4. Deployment plan: explains the overall planning of the infrastructure regarding the resources allocated and the major infrastructure milestones.

To improve the ease to access web site sections, the web site also provides the links above in a panel situated on the left of the main page.

REFERENCES

[1] DILIGENT: A Digital Library Infrastructure on Grid ENabled Technology. EC Contract No. 004260. [Online] http://www.diligentproject.org

[2] EGEE: Enabling Grids for E-science in Europe. [Online] public.eu-egee.org