



d4SCIENCE

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Enabled **T**echnology **4**
Science
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Middleware Deployment and Operational Support Procedures

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Research Infrastructures**

INFRA-2007-1.2.2: Deployment of
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e-infrastructure

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SUMMARY

This deliverable provides a detailed description of the deployment plan and the procedures and tools put in place by the project Service Activity to make available and maintain the D4Science production infrastructure. This infrastructure gathers hardware resources from several members of the project and runs gLite and gCube software to provide reliable Virtual Research Environments for the production activities of the D4Science user communities.

The procedures and tools described in this deliverable cover all operational areas for the management of the infrastructure and are organized into five distinct sections. Each section is dedicated to a different actor of the infrastructure involved in its operation or usage; this actor can be: a site manager, a VOs/VREs manager, a member of the support team, an end-user, or the infrastructure operation coordinator.

DELIVERABLE DOCUMENTATION

The objective of the D4Science Service Activity is to make available and maintain a stable production infrastructure to support the activities of two user communities: Environmental Monitoring and Fishery Resource Management. This production infrastructure must be effectively maintained and must run stable, tested and reliable software.

The compliancy with established procedures is a fundamental aspect for the provision of an efficient production-level infrastructure. In addition, the usage of a well defined set of tools allows a better organisation of the activity and facilitates the communication between the different partners involved.

The D4Science production infrastructure is composed by a number of sites hosting different types of nodes: gCube nodes, gLite nodes, and community nodes. Different procedures and tools are defined according to each node type:

- **gCube nodes:** follow the procedures defined by the SA1 and SA2 work-packages
- **gLite nodes:** follow the existing EGEE procedures
- **community nodes:** follow personalised procedures defined on a case by case basis by the SA1 and SA2 work-packages

The content of this deliverable is made available through the D4Science infrastructure wiki site and is meant to be a reference for all the actors of the infrastructure:

- <https://infrastructure.wiki.d4science.research-infrastructures.eu>

This deliverable is structured in two main sections “**Deployment Plan**” and “**Roles and Procedures**”. The first section presents the infrastructure objective, the sites involved and the major milestones planned for its deployment and operation during the project lifetime. More detailed information about the envisaged nodes and services deployment plan is also presented. The second section reports on the procedures and tools currently regulating the operation of the infrastructure. This information is organized in five sub-sections corresponding to the five roles of the actors operating and using the infrastructure: coordinator, site managers, VOs/VREs managers, support team, and end-users. For each role, all associated operational activities are explained.

The information presented in the D4Science infrastructure wiki site is structured from a user-oriented perspective. The aim of this organization, by role, is to allow the D4Science users and operation teams to easily find the information they need to exploit and manage the D4Science production infrastructure.