



d4SCIENCE

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Enabled **T**echnology **4**
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**Middleware Deployment and Operational
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INFRA-2007-1.2.2: Deployment of
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SUMMARY

This deliverable provides a detailed description of the procedures and tools that will be put in place to make available and maintain the D4Science production infrastructure. This infrastructure can be defined as the set of hardware and software resources deployed to provide D4Science user communities with a high quality reliable service.

The procedures and tools described by the deliverable cover all operational areas of the management of the infrastructure and are organized in two main sections (1) gCube procedures and tools and (2) gLite procedures and tools. The former describes the procedures defined to operate the gCube nodes of the infrastructure while the latter presents the EGEE procedures that were adopted to manage the gLite nodes of the infrastructure. Links to the tools and documentation defined by operations procedures are also presented.

DELIVERABLE DOCUMENTATION

The objective of the D4Science Service Activity is to make available and maintain a stable production infrastructure to support the activities of its two user communities: Environmental Monitoring and Fishery Resource Management. This production infrastructure must be a well-supported infrastructure, running 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 in setting up the infrastructure.

The D4Science production infrastructure is organised in three types of centres: Management Centre, Support Centres and Resource Centres¹. Each Resource Centre can host different types of nodes: gCube nodes, gLite nodes, and community nodes. Different procedures and tools are established according to these different types of nodes:

- gCube nodes follow the existing EGEE procedures and tools
- gLite nodes follow the procedures and tools defined by the SA1 work-package
- community nodes follow special procedures defined on a individual case basis by the SA1 and SA2 work-packages

This deliverable is made available through the “Procedures and Tools” section of the D4Science infrastructure wiki site:

https://infrastructure.wiki.d4science.research-infrastructures.eu/production/index.php/Procedures_and_Tools

This section of the wiki site is structured in three main pages:

- Overview
- gCube Procedures and Tools
- gLite Procedures and Tools

The gCube and gLite pages are the core of the deliverable. They present detailed information about the procedures and tools for the five operational areas of the infrastructure operation: (1) installation and upgrade, (2) site certification, (3) user and operational support, (4) site security, and (5) monitoring. These pages also gather, in summary tables at the end of each subsection, links to the most relevant tools and documentation.

The information presented in the wiki site is structure in a user-oriented perspective, to allow the D4Science users and operations teams to easily find the information they need to exploit or manage the D4Science production infrastructure.

¹ Please refer to deliverable DSA1.1a “Procedures and Resources Plan” for further information.