



d4SCIENCE

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Ecosystem for Science**
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Research Infrastructures**

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e-infrastructure

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SUMMARY

D4Science II project aims to serve a set of different scientific communities under five (5) pre-identified scenarios, that consist of a set of users, applications and resources. In order for these scenarios to be realised on an interoperating eInfrastructures landscape, case-specific software implementation is required. This implementation is targeting (a) the migration or full implementation of applications that reside on the "outer" infrastructures in the new landscape and (b) the implementation of new functionality on gCube in order for the latter to cope with user requirements coming from NA5 tasks. The progress of the design and implementation of these components is being reported in this deliverable, which has the form of an on-line document produced by the processing of the thread of tickets managed in the TRAC system of the project that relate to the JRA2 tasks.

DELIVERABLE DOCUMENTATION

D4Science II aims to serve different scientific communities with initially five (5) scenarios, covering a wide range of objectives. These are:

- INSPIRE
- DRIVER
- AquaMaps
- FCPPS
- ICIS

Each community consists of a set of users, applications and resources. As a result of the process of NA5 their needs are captured in a set of requirements, and are specified to the level of scenarios subtasks.

In order for these requirements to be realised in the landscape of interoperating e-Infrastructures, case-specific software development is needed in at least two architectural facets:

- (a) Migration or full implementation of software components (e.g. applications) that reside on the "outer" infrastructures (i.e. outside the gCube infrastructure) and
- (b) Implementation of new software within gCube to deliver new functionality to cover NA5 prioritized requirements. This new software can be brought into D4Science-II as new services or as components, such as libraries and portlets, or extensions of existing ones.

This deliverable reports on the progress of the design and implementation of these components.

The deliverable is produced in the form of an on-line document, hosted in a dedicated subsection of the D4Science-II wikis. Its production and its content constant updating is derived from the tickets that relate to the JRA2 tasks. These tickets are handled by the TRAC system, adopted by and customised for D4Science II project. The release and management of ticket threads is a result of a new procedure that links the requirement analysis to the software design and implementation.

The URL of the report can be found here:

https://gcube.wiki.gcube-system.org/gcube/index.php/DJRA2.1_Report_on_Scenario_Specific_Technology_Development

These Wiki pages are organised in several sections:

- The *Introductory* section reports on objective and content of the wiki, including references to the pre-requisites of NA5 and the sibling activity of SA2;
- One *section for each scenario* links the scenario specific requirements and their corresponding analysis (also on wiki pages) to a set of dynamic reports, extracted from the TRAC system for:
 - Scenario specific development progress.
 - Incidents referring to scenario specific software
 - Incidents referring to scenario specific software that have been resolved

No further releases of this report are planned. The Wiki pages that implement this Deliverable will evolve following the progress of the activity, and thus meet the objective of the deliverable.

REFERENCES

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