d4SCIENCE

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Report on Knowledge Ecosystem Supporting Technology Development

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Editor(s):	Manuele Simi (CNR)
Author(s):	Manuele Simi (CNR)
Contributor(s):	Massimiliano Assante (CNR), Federico Defaveri (CNR), Leonardo Candela (CNR), Giulio Galiero (ENG), Lucio Lelii (CNR), George Kakaletris (NKUA), Panagiota Koltsida (NKUA), Giorgos Papanikos (NKUA), Pasquale Pagano (CNR), Fabio Simeoni (BDM-USTRATH), Fabio Sinibaldi (CNR), Daniele Strollo (CNR), Rena Tsantouli (NKUA), Vasilis Verroios (NKUA)
Reviewer(s):	Andor Dirner (4D SOFT)
Participant(s):	CNR
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SUMMARY

The goal of *JRA1 Knowledge Ecosystem Implementation* work package is to develop the technology needed to implement and operate a knowledge ecosystem of interoperable e-Infrastructures. Towards this objective, the work package activity moves along several directions: *(i)* a requirement analysis of the input provided by NA4 work package; *(ii)* an evaluation and reuse or integration of existing solutions to the identified challenges wherever it is possible; *(iii)* a design and implementation of new gCube components wherever it is needed; *(iv)* a refactoring of existing gCube technology to scale up to the desired level of openness required to serve the new scenarios.

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 JRA1 tasks.

DELIVERABLE DOCUMENTATION

This deliverable reports on the progress of the design and implementation of the technology needed to implement and operate a knowledge ecosystem of interoperable e-Infrastructures.

The deliverable is produced in the form of an on-line document, hosted in a dedicated subsection of the D4Science-II wikis. The most informative part of the report is derived from the tickets that relate to the JRA1 tasks and from tools that calculate statistics and metrics of the source code produced.

The on-line report can be found here:

https://gcube.wiki.gcube-system.org/gcube/index.php/DJRA1.1_Report_on_Knowledge_Ecosystem_Supporting_Technology_Development

The report is organised as follows:

- an *Introduction* explaining the work-package goals and the approach to the design and implementation of the solutions to the identified challenges;
- a section reporting the *State of the Software Development Activity* that makes an extensive usage of TRAC reports;
- two sections presenting the *Metrics* and *Statistics* about the source code and links the on-line pages reporting various charts and tables in order to give a quantitative and qualitative picture of the software developed within the project;
- a section about the *Documentation* of the technical solutions implemented;
- and a final part linking the website from which the *Software* can be downloaded.

There will not be any further release of this report. The Wiki pages that implement this Deliverable will be updated according to the progress of the work-package activity, while the living reports are automatically updated as soon as new tickets are submitted in TRAC.

REFERENCES

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