



Contribution ID: 88

Type: **Oral Presentation**

## Access Earthscience Data from the EGI Infrastructure

*Tuesday, 12 April 2011 14:00 (30 minutes)*

### Conclusions

We will discuss the available OGC services and will show that also an Opendap solution is upcoming.

### Overview

Accessing data stored outside of the EGI infrastructure during the execution of a job has been in discussion since the grid is used by ES. There is, for example, high interest of the community in using the OPeNDAP protocol and corresponding Hyrax Data Server. Due to the many different technologies, datacenters, standards and pseudo standards, however, it seems that no general solution can be found. Even if OGC compliant web services are adopted interfaces are required.

### Impact

The access of datacenters from the EGI infrastructure supports existing and new Earth Science application and will be used for new deployments.

### Description of the work

In this session we will present the work of the Earth Science activity of EGI-InSPIRE SA3, which is devoted to Earth Science data access. The activity is investigating and following the development of specialized data access and management methods in the area of Earth Science. Accessing data stored outside of the EGI infrastructure during the execution of a job has been in discussion since the grid is used by ES. There is, for example, high interest of the community in using the OPeNDAP protocol and corresponding Hyrax Data Server. Hyrax offers many interesting features that go beyond high performance access to distributed datasets, such as an extensible component-based architecture, multiple data representations, static and dynamic THREDDS catalogues and more. Due to the many different technologies, datacenters, standards and pseudo standards, however, it seems that no general solution can be found. Even if OGC compliant web services are adopted interfaces are required.

The activity can be seen as the follow-up to the work that was carried out in EGEE III based on a memorandum of understanding with the Ground European Network for Earth Science Interoperations - Digital Repositories (GENESI-DR) project. The work of GENESI-DR is continued in the GENESI Digital Earth Community (GENESI-DEC) project that has started in 2010 and aims to extend and improve both the infrastructure and target audience of the projects network. The activity tries to act as a bridge between the project and the Earth Science community in EGI.

Problems, recent developments and different approaches of solution will be discussed in this session.

**Primary author:** SCHWICHTENBERG, Horst (Fraunhofer SCAI)

**Co-author:** GEMÜND, André (Fraunhofer SCAI)

**Presenter:** SCHWICHTENBERG, Horst (Fraunhofer SCAI)

**Session Classification:** User Environments

**Track Classification:** Data Management - Results