Diversity and Interoperability of Repositories in a Grid Curation Environment

Ludwig, Jens; Enke, Harry; Fischer, Thomas; Aschenbrenner, Andreas

Diversity and Interoperability of Repositories in a Grid Curation Environment

Abstract

Repository-based environments are increasingly important in research. While grid technologies and its relatives used to draw most attention, the e-Infrastructure community is now often looking to the repository and preservation communities to learn from their experiences. After all, trustworthy data-management and concepts to foster the agenda for data-intensive research (Data-Intensive Research: how should we improve our ability to use data. e-Science Theme, March 2010. http://www.nesc.ac.uk/esi/events/1047/) are among the key requirements of researchers from a great variety of disciplines. The WissGrid project (WissGrid - Grid for the Sciences, a D-Grid project. Funded by the German Federal Ministry of Education and Research (BMBF). www.wissgrid.de) aims to provide cross-disciplinary data curation tools for a grid environment by adapting repository concepts and technologies to the existing D-Grid e-Infrastructure. To achieve this, it combines existing systems including Fedora, iRODS, DCache, JHove, and others. WissGrid respects diversity of systems, and aims to improve interoperability of the interfaces between those systems.