SCI-BUS – SCIENTIFIC GATEWAY-BASED USER SUPPORT

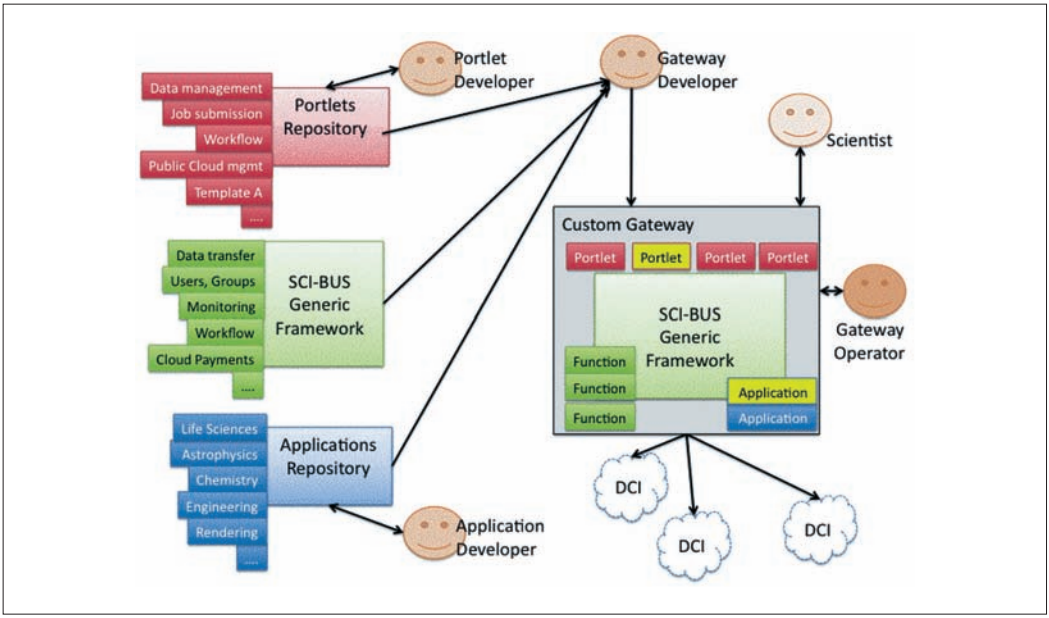
Funding Body:	EU	Programme:	Framework Programme 7
Start Date:	01/06/2011	End Date:	31/05/2014

Partners

- Laboratory of the Parallel and Distributed Systems in the Computer and Automation Research Institute of the Hungarian Academy of Sciences (MTA-SZTAKI), Hungary (Coordinator)
- Academic Medical Center of the University of Amsterdam, The Netherlands
- Simsoft Ltd, Turkey
- E-Group Ltd, Hungary
- ETH Zurich, Switzerland
- Middle East Technical University, Turkey
- Scaletools Ltd, Switzerland
- Eberhard Karls Universität Tübingen, Germany
- Centre for Parallel Computing, University of Westminster, UK
- Institute for Biocomputation and Complex Physics Systems of the University of Zaragoza, Spain
- CloudBroker GmbH, Switzerland
- 4D Soft Ltd, Hungary
- INAF – Osservatorio Astrofisico di Catania, Italy
- Laurea University, Finland
- Trinity College, Dublin, Ireland.

Synopsis

SCI-BUS will create a general purpose gateway technology that will provide seamless access to major computing, data and networking infrastructures and services in Europe. Distributed Computing Infrastructures (DCI's) represented in the project include clusters, supercomputers, grids, desktop grids, academic and commercial clouds. SCI-BUS will elaborate an application-specific gateway building technology and a customisation methodology based on which user communities can easily develop their customised gateways. The framework will facilitate reuse and exchange of generic and application-specific gateway components not only among the project partners but also to other projects that use Liferay technology. The developed gateway technology and customisation methodology will be used to create 11 application-specific gateways customised for various types of user communities including astrophysics, seismology, helio-physics, computational chemistry, bioscience, biomedicine, PireGrid SME community, Blender community,



citizens' web-2 community, DCI application developer communities, and business process modelling community. SCI-BUS will establish production gateway services for these communities and will attract additional communities by training and other forms of dissemination activities. The established customised production gateways will serve as best-practice case studies based on which new communities can build their own customised gateways. SCI-BUS will provide gateway development, operation and maintenance support, as well as user support for application developers and end-users to develop and run new DCI applications based on the developed gateways. SCI-BUS will develop business models to enable the commercial exploitation of the developed technologies and to guarantee the sustainability of the gateway services developed in the project. Special attention will be given to standardization and quality control issues to increase the chances of adoption of the SCI-BUS technology and methodology.

Brief USP

Construction tools for DCI gateway. User-specific DCI gateways for 11 different user communities.

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