

# Enterprise Systems Interoperability



Nancy-Université



UNIVERSITÉ LUMIÈRE LYON 2  
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## INTEROP Grande-Région SIG Facing the major challenges of interoperability in an international setting

The INTEROP Grande-Région SIG, a non-for-profit organisation, gathers scientific research laboratories and companies from around the Grande-Région Area (Saarland, Wallonie, Luxembourg, Gemeinschaft Belgiens, Communauté française de Belgique), Paris and surrounding, and the whole East of France to stimulate research partnerships and technology transfer in the domain of enterprise systems interoperability.

### PARTNERS

- University of Paris 1 Panthéon – Sorbonne (F) - Centre de Recherche en Informatique (CRI)
- University of Namur (B) - Research Center in Information Systems Engineering (PReCISE)
- Nancy-Université: University Henri Poincaré Nancy 1 & University Nancy 2 (F) - Centre de Recherche en Automatique de Nancy (CRAN) & Laboratoire Lorrain de Recherche en Informatique et ses Applications (LORIA)
- INSA Lyon (F)
- INSA Strasbourg (F)
- University Lumière Lyon 2 (F)
- Centre de Recherche Public Henri Tudor (L)

### CONTACTS

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### Objectives

The goal of the INTEROP Grande-Région SIG, together with the other INTEROP VLab poles and/or external partners is to stimulate collaborative scientific work among its members and participation in common research and development projects, both locally and internationally. By bringing together Research Institutions, Industrial companies, public and standardisation bodies, the SIG provides a number of services around the themes of enterprise interoperability:

- Access to an international network of research organisations known for their excellence and competence in interoperability;
- Access to a large body of knowledge and expertise on interoperability including technology watch, real case studies, standards, existing and customised interoperability solutions and consulting services;
- Increased national and international visibility and influence of members;

- Easy and privileged access to the results and services of INTEROP-VLab and the possibility to contribute to their improvement;
- Intensified scientific collaboration among Industry and governmental research through sharing of knowledge and results and the set-up of new common research and development projects both at a local and international scale;
- Promotion and enablement of high standards learning facilities on interoperability through common teaching offers at Master and Doctorate levels.
- Support for the setup, initiation and management of interoperability projects.

### Topics

The INTEROP Grande-Région SIG primarily focuses on all aspects related to enterprise systems and applications interoperability. These topics include but are not limited to:

- Theoretical foundations and methods for the engineering of requirements, system services and enterprise systems;
- Model-based interoperability;
- Semantic interoperability;
- Models and Semantics of enterprise process representations (BPM, ...);
- Model driven engineering and architectures;
- Requirements for interoperability;
- Software Architectures for interoperability;
- Model-based Business IT-Alignment and interoperability;
- Interoperability of Services (business and IT);
- Interoperability of industrial production systems and software (ERPs, MES, SCM, PLM ...);
- Services for the deployment of virtual teams distributed over Internet.

### Local activities and services

Membership gives access to local activities of the SIG. Current activities and services include:

- Local conferences on the theme of interoperability;
- Exchange days to foster collaboration between members;
- Special Interest Groups (SIGs);
- Encouraging and supporting the submissions of common research projects (at international, European, national and local levels);
- The pole collaboration platform (allowing sharing of documents, exchange of news ...).



The INTEROP Grande-Région SIG, together with 8 other regional poles, is a member of the INTEROP-VLab, the "International Virtual Laboratory for Enterprise Interoperability", a world-wide research network that encompasses a large number of European countries as well as China. INTEROP-VLab is stemming from the successful INTEROP-NoE Network of Excellence, a European Community funded project (Interoperability Research for Networked Enterprise Applications and Software, FP6 508011) in which more than 50 research institutions were involved.

### European Activities and services

In addition to local activities, membership gives access to services provided by INTEROP-VLab. Amongst others:

- INTEROP-VLab collaborative platform: this portal allows members to exchange information and collaborate on specific projects and keep informed about the INTEROP-VLab activity;
- Interoperability Knowledge Map (KMap): an advanced Knowledge Management System which can be used for storing and retrieving relevant content pieces (documents, project and product descriptions, people's competencies, organizations, events, ...) and classifying them according to an ontology of the interoperability domain;
- e-learning platform: an access to more than 40 tutorials and courses elaborated by the top specialists in Enterprise Interoperability (EI), allowing to bring your knowledge up to standard in new topics related to Enterprise Interoperability. You also have the possibility to use the available materials to build your own courses.

### Joining

If you are interested in enterprise interoperability topics, you are invited to join the INTEROP Grande-Région SIG. We welcome any kind of organisation including research organisations, industries, public bodies, education institutions...

For details about the application procedure and conditions, please consult the SIG website:

<http://www.interop-grande-region.eu/>