# CIMOSA - News

## INTEROP-VLab

Interoperability Research for Networked Enterprises Applications and Software-Virtual Laboratory, (**INTEROP-VLab**) a European research organisation, located in Brussels is the follow-on organisation of the INTEROP-NoE project. INTEROP-Vlab will co-ordinate, develop and promote the research on Enterprise Interoperability through the regional partner organisations (France, Germany, UK, China, and four more in preparation).

A General Assembly has taken place on 2007-09-26/27 to discuss and decide on the work plans, which identifies activities in related research, education and standardisation. The latter will be mediated by the CIMOSA Association. http://www.interop-vlab.eu

IMS the Intelligent Manufacturing Systems initiative has held a workshop in Zurich, Switzerland on 2007-11-15/16 under the Theme 'Strategies for Global Manufacturing - A European View of IMS'. INTEROP-Vlab has organised a special session on 'Manufacturing Interoperability and Standards' chaired by Guy Doumeingts, to discuss a strategic work plan for Manufacturing Interoperability within the framework of IMS. Topics addressed: the EI Research Roadmap, Semantic Interoperability in Intelligent Manufacturing Systems, Services for Business, Education, Collaboration and Interoperability for Manufacturing networked Enterprises, Model Driven Interoperability and SOA and Standardisation in Interoperability. The discussion identified specific research needs in domain ontologies, networked enterprises, as well manufacturing services and semantic standards.

## I-ESA'08 Conference

The 4th International Conference on Interoperability for Enterprise Software and Applications, to be held in Berlin, Germany, on 2008-03-25/28, will bring together experts in Enterprise Interoperability and e-Business research with industry users, presenting to the audience the forefront of interoperability research as well as industry positions and viewpoints in this domain.

Interoperability in the context of enterprise applications is the ability of a system or a product to interact and exchange information both internally and with external organisations (partners, suppliers, customers) is a key issue in the entire economy.

I-ESA´08 is jointly organized by the INTEROP VLab (http://www.interop-vlab.eu) and the EIC (Enterprise Interoperability Centre) the follow-on of the ATHENA project (http://www.eic-community.org).

## EFFORTS project

The European research project **EFFORTS (**EFFective Operations in poRTS**),** was presented at the Hamburg International Conference on Logistics (HICL) on 2007-09-06/07 in a contribution with the title 'Combined Approach for Enterprise Modelling: CIMOSA and SOA as Dynamic Architecture in Maritime Logistics` In this project with 25 partners, under the technical coordination of the TUHH (Prof. J. Froese), a process architecture of the holistic integrated network involving various technical and administrative port activities and services is developed.

The project is following the concepts of enterprise process modelling and the architecture of CIMOSA for modelling and SOA for executing services. The reference model is to be used as a comprehensive knowledge base for all stake holders as well as a shared base for the port operation management in European ports. Presently, a glossary to insure common terminology between the partners and a map of the reference processes are established. The reference model applicable to large European ports will be implemented on the EPC Tool (Enterprise Process Centre) of Interfacing Technologies, Montreal, Canada.

A very concise description of Business Process Modelling for Ports has been published by J. Froese in the September issue of the EFFORTS Newsletter (www.efforts-project.org )

CIMOSA Association e.V., at WZL Forum/ADITEC, Steinbachstr. 25, D-52074 Aachen,

Registered at the Court of Aachen/Germany, Registr. Nr. 3225          Page 1 of 2

## Knowledge Management

METORA a German network for knowledge co-operation had a milestone workshop in Berlin on 2007-11-19. The project takes a holistic approach of three topics 1. Transfer and exchange of knowledge along business processes - the user perspective 2. Interaction with the knowledge stored in the portal via functions and tools to access, extract and analyse information, 3. The (service oriented) technology platform (http://metora.de).

## EE&I Standardisation

**ISO TC 184 SC5/WG1** meeting, Vienna, Austria, 2007-10-1/3, on ISO 27387 'Reference for Process Modelling Methods' and ISO 15704 'Requirements for Enterprise Architectures and Methodologies'. Reviewing the current draft of the former, additional work on the characterisation of enterprise processes is required. For the latter, extensive discussions with the convenor of JTC1 SC7/WG42 have identified the relations to the ongoing work in WG42 on ISO/IEC 42010 architectural descriptions. The discussion will be continued at the forthcoming meeting of SC7 in Berlin. The Vienna meeting included a joined session with CEN TC 310/WG1, which resolved the last set of comments received on CEN/ISO 19440 'Constructs for Enterprise Modelling' and addressed the new work item on 'Manufacturing Enterprise Process Interoperability'. The current status of the SC5 Glossary has been presented and redistributed to the SC5 editors for a second review..

Next meetings:

- CEN TC310/WG1 to be held jointly with I-ESA'08 in Berlin, 2008-03-24/25
- ISO SC5/WG1 jointly with JTC1 SC7 in Berlin 2008-05-19/23

**DKE 931.0.2** the German mirror committee to IEC/ISO JWG5 (JWG15), will have a meeting on 2007-12-05 in Frankfurt, to elaborate and enhance the dissemination and publication activities on the IEC 62264 multi part standard. Next JWG5 meeting, Tampa, Florida, USA, 2008-01-15/17

## Reviews

H. Panetto 'Towards a classification framework for interoperability of enterprise applications', International Journal of Computer Integrated Manufacturing, Vol. 20, No. 8, pp 727 – 740.
The author aims on analysing and classifying enterprise applications, models and standards used at different levels of the enterprise. For this, he defines a framework for many interoperability types. The concepts of 'levels of interoperability' and 'degrees of interoperability', which have been reported in the literature are combined with the aspects of interoperability defined in the European Interoperability Framework (EIF). In addition, the levels of abstraction as defined in the Model Driven Architecture (MDA) together with time behaviour of the application (synchronic and diachronic) are used to define the classification framework. The framework has been tested using two particular instances: the Unified Enterprise Modelling Language UEML and ISO/IEC 62264 Enterprise Control System Integration.

## Upcoming Events

- CEN-CENELEC-ETSI-ANSI Conference on Interoperability: Key to International Business - The role of ICT Standards, Warsaw, Poland, 2008-02-6/7
- European Commission Workshop on European ICT standardisation policy at a crossroads: A new direction for global success, Charlemagne Building, Rue de la Loi / Wetstraat 170, Brussels, Belgium, 2008-02-12
- I-ESA'08, 4th International Conference on Interoperability for Enterprise Software and Applications, Berlin, Germany, 2008-03-25/28, http://www.interop-vlab.eu
- EMMSAD'08, 13th Workshop on Exploring Modelling Methods in Systems Analysis and Design Montpellier, France, 2008-06-16/17, held in conjunction with CAiSE'08, http://www.emmsad.org
- BASYS 08, 8th IFIP International Conference on Information Technology for Balanced Automation Systems, Porto, Portugal, 2008-06-23/25, contact: Prof. Americo Azevedo ala@fe.up.pt
- ICE'2008, 14th International Conference on Concurrent Engineering, Lisbon, Portugal, 2008-06-23/25, http://www.ice-conference.org/
- IFAC'08 World Congress Seoul, Korea, 2008-07-6/11 with invited sessions on: Semantic-Based Solutions for Enterprise Integration and Networking, and Internet of Services