CIMOSA - News

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The CIMOSA - News is published by the CIMOSA Association. The CIMOSA News reports on CIMOSA applications, evolution of its technical specification, advancements in standardisation and related items. Contributions from other parties are welcome. The CIMOSA - News will be printed periodically and is also available in the Internet at http://www.cimosa.de.

INTEROP (IST-2003-508011)

The EU project INTEROP-NOE (Interoperability Research for Networked Enterprises Applications and Software-Network of Excellence) has been completed April 30, finishing with a successful EU review on May 31, 2007. With the project emphasis on network building, dissemination of project results has been a major activity. The following list provides an overview of the different activities that have been carried out:

- I-ESA International INTEROP Conferences, in Geneva 2005, Bordeaux 2006 and Funchal 2007 with a total of 800 participating researchers from academia and industry.
- 62 sessions and scientific workshops
- 70 papers in international journals
- 8 special issues of international journals
- 20 books or proceedings
- 309 communications in international recognised conferences
- 63 national articles on dissemination

We estimate that during the project, the results of the project activities have reached 2500 researchers worldwide

Besides the efforts on network building, INTEDROP has created early pilot products from its research activities as well:

Knowledge map **(KMap)** a knowledge base providing information on organizations, projects and results of the enterprise interoperability community. KMap is employing a query interface to capture recent research results in the area of Enterprise Modelling, Collaborative platforms, Semantic Web, Text Mining, and Ontology Enrichment.

Taxonomy Validator **(TAV)**, a tool to browse, update and validate a taxonomy with functions to create, delete and search concepts; and add conceptual relations

Potential products might be derived from a) The INTEROP Glossary, b) the Interoperability Explicit Knowledge Repository) **(IEKR),** a virtual library of publications about interoperability, c) Tutorials and Web courses for education about selected interoperability topics.

INTEROP-VLab, a European research organisation, located in Brussels has been established as follow-on organisation. The Vlab will coordinate, develop and promote the research on Enterprise Interoperability through a number of newly established regional partner organisations (so far poles in France, Germany, UK and China established, four more in preparation).The German pole, DIF (Deutsches Forum fuer Interoperabilitaet) is located in Berlin. The CIMOSA Association is partner in the DIF.

I-ESA'07 Conference

The 3rd International Conference on *Interoperability for Enterprise Software and Applications*, was held in Funchal, Madeira, Portugal, on 2007-03-28/30. Participation: 430 people.

The conference was organised in 3 plenary sessions fostering 7 keynotes and 31 parallel sessions with a total of 94 papers. The parallel sessions addressed various research areas (modelling and engineering, architectures, formal approaches, model driven and service oriented integration and development, tools and methodologies), covered different aspects of interoperability (semantic and knowledge, managing, measuring and validating, cross sector), presented selected case studies and identified relevant work in standardisation.

Conference proceedings "Enterprise Interoperability II: New Challenges and Approaches", R.J. Gonçalves, J.P. Müller, K. Mertins and M. Zelm, (Editors), published by Springer-Verlag London Ltd. 894 pages, ISBN978-1-84628-857-9.

A condensed version of the conference proceedings has been prepared by K. Kosanke. It is available on the CIMOSA web site under, http://www.cimosa.de/COA_Pr.html.

Reports from projects

The European research project **EFFORTS (**EF-Fective Operations in poRTS**),** FP6-031486, involving 30 expert partners from 13 countries, coordinated by the Hamburg University of Technology, investigates logistics and supply chain management within and among enterprises, vessels, seaport organisations and has to identify the different processes to be carried out in the port operation. Besides the value chain itself, a number of external factors such as vessel traffic services, regulations and legislation are to be included in the process modelling. A combined holistic approach for enterprise modelling with CIMOSA and SOA as dynamic architecture in maritime logistics is under development. Advise for enterprise modelling with CIMOSA has been provided through several visits and discussions by phone and at conferences. The operational model will be developed and executed with the CIMOSA model compliant Enterprise Process Center (EPC) tool of *Interfacing Technologies Corporation, Montreal, Canada*. To get more project information contact: Prof. J. Froese froese@tu-harburg.de.

EE&I Standardisation

ISO TC 184 SC5/WG1 meeting, Funchal, 2007-03-26/28 preceding the INTEROP conference I-ESA'07. The meeting addressed the following points:

- Terminology taxonomy proposal from study group: First results of editors comments integrated and prepared for presentation at SC5 meeting in Los Angeles, USA in May.
- Systematic review of ISO 15704: discussions with JTC1 SC7/WG42 revealed potential alignment between the two concepts.
- NP ISO 27387 System integration - Reference for process modeling methods: Part 1: waiting for new input from China.
- NWIP Requirements for establishing enterprise interoperability in manufacturing-enterprise processes and their models: Ballot failed in both CEN and ISO due to administrative and communication problems. Re-balloting in progress.

Next meeting Vienna, Austria, 2007-10-1/3

DIN NAM 430.5 meeting, Frankfurt 2007-06-20. Focus of the meeting of the German mirror committee to ISO TC 184 SC5/WG1, was on MES (Manufacturing Execution System). A sub-committee has been established to clarify MES scope and terminology.

JWG5 (JWG15) -IEC/SC65E/ ISO/TC184 / SC5 meeting, Nice, France on 2007-07-11/13. Objectives: start development of IEC/ISO 62264-5, Business to Manufacturing Transactions and provide input to the ISA SP95 Part 4 documents.

The major efforts of ISA-SP95 are presently: a) update all 62264 related parts, b) incorporate generic work model and move object models from part 3 into part 1, c) move new models (maintenance, quality, inventory) from part 4a into part 2 (part 4a becomes obsolete). This will lead to a modified structure of IEC/ISO 62264: Parts 1&2 will contain all object models & attributes for level 3-4 integration, Part 4 deals only with "interfaces within layer 3". Part 5 already contains transactions for all models contained in parts 1-3. Part 6 will deal with transactions within layer 3. Dissemination activities in Germany by the DKE 930.0.2 working group: An overview article in German, summarising 62264 has been published in two parts in 'ATP-Automatisierungs-technische Praxis', 5/2007 and 6/2007 issues.

Upcoming Events

- IFAC-CEA 07, IFAC conference on Cost Effective Automation in Networked Product Development and Manufacturing, Monterrey Nuevo León, México, 2007-10-02/05, http://cidyt.mty.itesm.mx/ifac-CEA07/

- PRO-VE'07, 8th IFIP Working Conference on Virtual Enterprises, Guimrèes, Portugal, 2007-09-10/12, www.pro-ve.org

- eChallenges e 2007, Conference & Exhibition, The Hague, Netherlands, 2007-10-24/26, www.echallenges.org/e2007

- I-ESA'08, 4th International Conference on *Interoperability for Enterprise Software and Applications*, Berlin Germany, 2008-03-25/28, contact: Prof. Kai Mertins, kai.mertins@ipk.fhg.de

- 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

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