



COIN Newsletter

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COIN Vision

“By 2020 enterprise collaboration and interoperability services will become an invisible, pervasive and self-adaptive knowledge and business utility at disposal of the European networked enterprises from any industrial sector and domain in order to rapidly set-up, efficiently manage and effectively operate different forms of business collaborations, from the most traditionally supply chains to the most advanced and dynamic business ecosystems.”

The mission of the COIN IP is to study, design, develop and prototype an open, self-adaptive, generic ICT integrated solution to support the above 2020 vision, starting from notable existing research results in the field of Enterprise Interoperability and Enterprise Collaboration.

COIN has been awarded financial support by the European Commission through the contract No. 216256 in the EU FP7 area of “ICT in support of the networked enterprise”; work programme “ICT-2007-1.3 Enterprise Interoperability”

More about COIN at www.coin-ip.eu

Word from the editor

You are viewing the fifth issue of the biannual COIN newsletter. The COIN project reached the end of its second year of development and indeed many challenges were faced in the run to fulfil the mission.

In this newsletter we will provide further news on COIN project progression in terms of presenting the first prototype of the COIN System. We will also continue our series of introducing the fifth one of our end-users, the The Andalusian Aeronautic Cluster from Spain (represented by ISOIN), and provide information about upcoming COIN Summer School. In addition to this, we have collected information about COIN related events at the end of the newsletter.

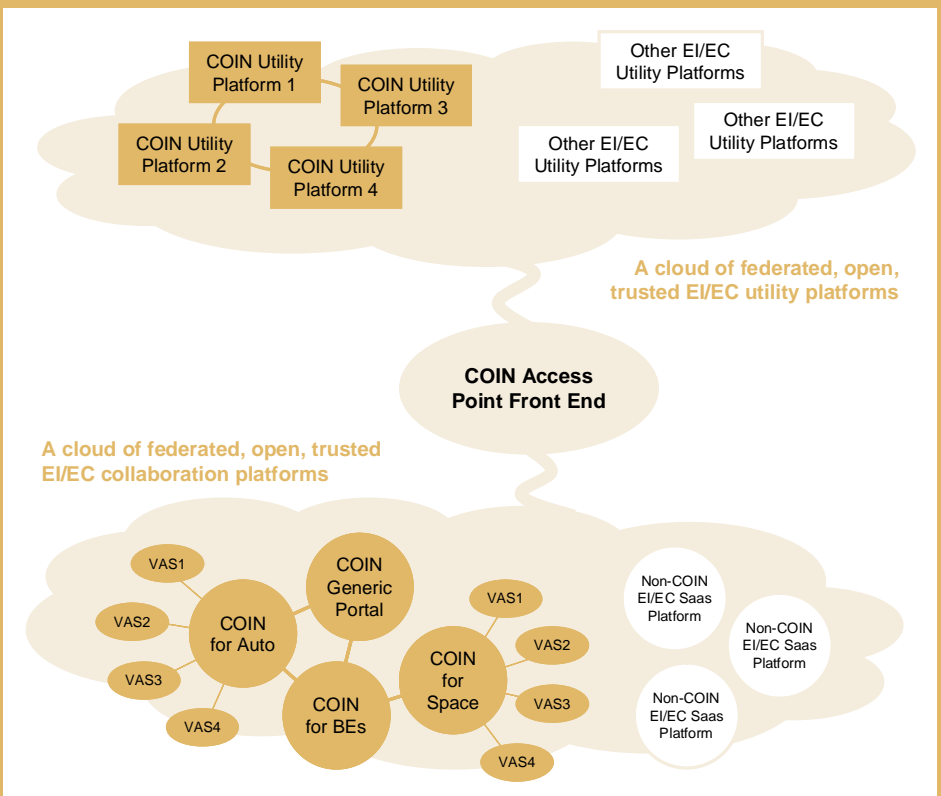
The COIN System

The first prototype of the COIN system has been recently integrated and demonstrated under realistic end-users business scenarios in automotive, space and pulp & paper plants engineering. But what is a COIN system?

It is a federation of utility platforms which allow EI/EC Services to be searched, discovered, ranked, orchestrated and executed by cross-organizational business processes embedded in Collaboration Platforms.

This means that there are three main components of the COIN system, which could be interfaced in several different ways:

- A COIN Utility Platform which is an open source instantiation of a generic SESA (Semantically Enabled Service Architecture), specialized in the EI/EC domain, and empowered with advanced capabilities for trust & security, distribution & scalability, reasoning & negotiation.
- A constellation of COIN EI/EC Services which are able to implement state-of-the-art and innovative technologies to support information, knowledge and business interoperability as well as Human Collaboration in a collaborative business context of Product Development, Production Planning and Project Management. [>>]



- A *COIN Collaboration Platform* which is a generic open source web portal encompassing Social Networking interaction, Knowledge Assets accession and Business Process management in a unique integrated multi-enterprise collaboration environment customized for more or less hierarchical organizational networks.

A first cloud of open COIN and non-COIN Utility Platforms (providing utilities for service development, registration, publication, search & discovery, orchestration & execution) federated by EI/EC interoperable ontologies forms the *COIN Utility Infrastructure*, which could be seen as a subset of the Future Internet of Services core platform devoted to provide Smart Applications with common EI/EC commodities like human interaction, data mapping, service reconciliation and process synchronization functions.

A second cloud of domain- and sector-specific COIN and non-COIN Collaboration Platforms provides Supply Chains, Collaborative Networks and Business Innovation Ecosystems with advanced Value Added Services supporting the whole product/service life cycle and collaboration phases and constituting this way the *COIN Collaboration Infrastructure* of next generation FI-based Enterprise Systems (FInES).

A unique *COIN Access Point* allows human and IT consumers to access the services provided by both clouds while a COIN cloud-to-cloud middleware supports the communication and interoperability of the two clouds.

Regarding non-COIN entities, specific collaborations are on-going with past and recent RTD and commercial projects in order to create a critical mass of Platforms and Services which could constitute the core of a Future Internet EI/EC Service Utility

Yours sincerely,
Editor-in-chief

COIN summer school

Summer School on Advanced Technologies for Knowledge Intensive Networked Organizations

Autumn 2010

The summer school seeks to bring together students, scholars and researchers from industry in order to foster collaboration and interoperability through innovative software solutions and share the recent research developments from well-established researchers and educators.

The summer school is being organised by the two FP7 Integrated Projects COIN and *ACTIVE (Knowledge Powered Enterprise)*, which are researching and developing platforms and solutions for knowledge intensive networked organisations.

The *main topics* of the summer school are:

- Interoperability and collaboration models and solutions,
- Enterprise interoperability and collaboration services,
- Innovative knowledge and semantically powered technologies,
- Knowledge process and context modeling,
- Pro-active knowledge tools,
- Large scale analytics and reasoning tools,
- Business cases and real case studies.

During the summer school the attendants will have an opportunity to listen to several distinguished invited speakers.

For more information visit: <http://coin-active-ss.ijs.si/>

Introduction of the COIN end-users, Part V: ISOIN

The COIN project involves six end-user partners coming from a variety of industrial branches and geographical distribution. The industrial partners will demonstrate, experiment, trial and assess the project results into realistic Industrial Scenarios with test cases in following sectors: *Aeronautics* (Spain), *Automotive* (Slovenia), *Aerospace* (Italy), *Pulp & Paper plants design and management* (Finland), *Healthcare* (U.K.), and *ICT* (Hungary). The scenarios represent a wide spectrum of collaboration contexts varying from supply chains, to collaborative networks, and to the most dynamic forms of enterprise business ecosystems.


In this fifth part of the series we present our Spanish partner ISOIN, the core technological partner of the Aeronautic Cluster of Andalusia. The last one of the COIN end-users will be introduced in the next issues of the COIN newsletter due at the end of this year.

ISOIN, Ingeniería y Soluciones Informáticas del Sur S.L.



The *Andalusian Aeronautic Cluster* has a consolidated position in the European aircraft Industry, operating since 1930. Strategic projects strengthen the importance of Andalusia as one of the Spain's main aerospace production regions, such as production of structural components of the A380 program and the final assembly of all-new A400M military aircraft. Besides the final assembly line, the excellence centre in sheet metal production and composites are the key services provided to the aeronautic industry.

[>>]



The cluster brings together prime contractors of the aeronautic world with about 125 subcontractors and supporting entities (Universities, Research Centres and Regional Government). Most of the companies are located in the provinces of Seville and Cadiz at the South of Spain. The main prime contractors of the cluster are EADS-CASA and AIRBUS, although other prime contractors are also starting businesses activities with the companies of the cluster.

The cluster main goals are to increase and to diversify its activities, attracting a higher number of prime contractor companies or counting with Tier 1 Andalusian companies. Another important objective is increasing the productivity with the coordination of innovation activities among the cluster companies. The advanced Virtual Organization paradigm is pursued, in order to increase process efficiency and collaboration opportunities while fostering innovation in a sustainable structure.

The network has established collaboration initiatives since its origin, evolving to the current situation (structured as a Foundation, 2002) promoted by the Regional Development Agency to foster collaboration activities and improve the cluster competitiveness in the European aeronautic market. ISOIN promotes research and innovation projects in the cluster, supporting collaboration processes together with Hélice foundation. Its activities in the context of the regional 'Strategic Plan for the evolution of the Aeronautic Cluster of Andalusia' cover:

- Definition of the technological capabilities and readiness for the evolution to the advanced networked structure, as a key factor to achieve world-excellence in the global market,
- Definition, launch and execution of research and development activities to foster innovation in the cluster,
- Provision of suitable infrastructure to match collaboration demand and offer, based on collected competencies and availability.

The participation in COIN is considered a key step towards the collaborative networked business vision, as an effective instrument to enforce this positive evolution and increase its competitiveness in the global market. The competitive advantages and expected benefits COIN will bring are:

- Openness for the cluster, to other prime contractors and other business opportunities. Improve relations with other clusters.
- Open call for tender processes. Competence selection of partners.
- SaaS business models in software implementation that reduces costs, time and difficulty for companies in the use of new services.
- Increase collaboration in business opportunities among companies, sharing valuable information without neglecting security.
- Increase communication between companies, University and research centres.

- Increase Interoperability among companies of the cluster and outside the cluster, facilitating the use of these services to the end user. SaaS can use accepted standards in aeronautics and by main software developers, enabling the integration of applications and platforms.

Past COIN events

FInES Cluster Workshop

Brussels, Belgium. 17 March 2010

The Future Internet Enterprise Systems cluster is a combined research domain belonging to the overall research field of the Future Internet, with a specific research focus on ICT adoption and usage by enterprises.

The FInES Cluster Workshop organised by COIN Integrated Project was built around 2 main topics:

In *Future Internet Enterprise Systems Research Roadmap session*, the current advanced draft of the FInES Research Roadmap (version 2) was presented by its main editors. The target was to dedicate ample time to a debate among the cluster constituents with a view to finalise the document in the coming weeks after the workshop.

The *Future Internet session* was dedicated to the Future Internet initiative developments from 2 main viewpoints:

- Commission perspectives: an overview of as well as a specific focus on the opportunities and highlights of the upcoming call on FI PPP in the next Work programme provided by the EC representatives.
- Enterprise perspective with invited speakers from industrial background providing their viewpoint and animating the subsequent debate with the cluster constituency.

For further information visit:

<http://cordis.europa.eu/fp7/ict/enet>

Future Internet Assembly (FIA) Workshop: What does Future Internet mean for enterprise?

Valencia, Spain. 15-16 April 2010

The objective of this FIA Valencia workshop was to further advance the FIA Stockholm Enterprise session results by:

- Stimulating additional debates on several of the priority topics,
- Attracting new inputs from a broad spectrum of stakeholders of FIA,
- Reaching agreement (where possible) on the direction of the Future Internet research that would motivate, enable and support enterprises, including SMEs, to achieve their business aspirations and objectives, thereby creating a positive impact on the economy and society.

This session was planned in close consultation with FInES. [\[>>\]](#)

Recent research suggest that the new drivers for prosperity and growth will come from innovation and from using resources better, where the key input will be knowledge. Future competitiveness will be driven by factors far beyond conventional economic dynamics. Instead, the focus is increasingly on conserving and making more effective use of energy, natural resources and raw materials; it is also on social cohesion, tackling unemployment and fostering social inclusion. European enterprises have the opportunity to thrive in this post-crisis landscape by means of environmentally and so-

cially responsible business innovation and creativity.

Links and communication channels

FIA Valencia Enterprise Session webpage:
<http://www.future-internet.eu/home/future-internet-assembly/valencia-april-2010/session-agendas/enterprises.html>

FIA Enterprise Blog: <http://fiaenterprise.wordpress.com/>

FIA Enterprise Twitter: <http://twitter.com/FIAEnt>

Upcoming events

Next event for the COIN Community @ ICE 2010 – 16th International Conference on Concurrent Enterprising: “Collaborative Environments for Sustainable Innovation”

Lugano, Switzerland, 21-23 June 2010

The ICE conference is a forum for practitioners, researchers as well as tool vendors to present, demonstrate and share the results and achievements of their work in the broad domain of Concurrent Enterprising. For more information visit: <http://www.ice-conference.org/>.

The ICE Conference will be the main event for the COIN Community in 2010. Don't miss any information and opportunities for getting involved in COIN supporting tasks and stay tuned on the COIN Community. For more information visit: <http://www.coin-ip.eu/coin-community>.

FIS 2010 – 3rd Future Internet Symposium

Berlin, Germany. 20-22 September 2010

The Future Internet Symposium (FIS) is a venue for European and international researchers to share their work on next generation Internet technologies. For more information visit: <http://www.fis2010.org/>.

ICT 2010 – European forum for ICT research and innovation

Brussels, Belgium. 27-29 September 2010

This biennial event is a gathering point for researchers, business people, investors, and high level policy makers in the field of digital innovation. For more information visit: http://ec.europa.eu/information_society/events/ict/2010/.

Pro-VE '10 – 11th IFIP Working Conference on Virtual Enterprises

Saint-Etienne, France. 11-13 October 2010

Collaborative Networks for a Sustainable World. For more information visit: <http://www.pro-ve.org/>.

eChallenges 2010

Warsaw, Poland. 27-29 October 2010

The twentieth in a series of annual technology research conferences. The goal of e-2010 is to stimulate rapid take-up of Research and Technology Development (RTD) results by industry and in particular SMEs, and help open up the European Research Area (ERA) to the rest of the world. There will be a special COIN hosted workshop on e-2010. For more information visit: <http://www.echallenges.org/e2010/>.

ESoCE-Net Industrial Forum 2010

Rome, Italy. 6 December 2010

The Industrial Forum event aims at offering an opportunity to Industrial players from different market sectors and from different European Regions and to Regional Development Agencies and local Government Bodies to discuss and learn emerging issues and opportunities from the deployment of new methods and approaches for Industrial Innovation in leading economic and industrial contexts. For more information visit: <http://www.esoce.net/>.

ServiceWave 2010

Ghent, Belgium. 13-15 December 2010

The conference series is an opportunity for academic researchers and industry practitioners to report on groundbreaking research work and present industrial trends, strengthening the cross-community excellence in service oriented computing related domains. For more information visit: <http://servicewave.eu/2010/>.