Enterprise COllaboration & INteroperability

COIN Workshop: COIN EI / EC Services for Collaborative networks: From lesson learnt to future implementation ideas

“What after COIN? Ideas and perspectives"

Aachen, June 22nd 2010
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1. **EI/EC services commoditization** to be extracted & separated from state-of-the-art Enterprise Applications in order to constitute a Service Utility (ISU) available to all the Enterprises.

2. **Interoperability Service Utility** as an essential component of the European Future Internet service infrastructure currently under development in the RTD Framework Programme 7.


4. **Open-Trusted Platform Federation**, as the implementation paradigm for evolutionary and scalable distributed architectures of Global Service Delivery Platforms.
1. **SaaS-U Business Models** as the original and innovative blending of Utility models with Software as a Service models, prototyped in energy, healthcare and ICT enterprise systems

2. **Original Public-Private-Partnership Models** for an earlier and pragmatic provision and diffusion of Public Utility services in the industrial ecosystem by local/central Public Authorities

3. **New Business Values** promoted and disseminated in the business arena beyond the mere economical ones: e.g. Social Solidarity, Eco-Sustainable Manufacturing, e-Participation

4. **Service Innovation**, as one of the most promising strategic asset not just for tertiary sector but mostly for Agriculture and Manufacturing Industry. Service Science, Everything as a Service and Value co-Creation with customers founding it
MSEE  Manufacturing SErvice Ecosystem

Project No: 284860
Project Full Name: Manufacturing Service Ecosystem
Duration: 36 months
Start date: October 1st 2011 (tbc)
Partnership: 19 partners, 9 countries
Strategic Objective: FP7 FoF-ICT-2011.7.3 Virtual Factories and Enterprises
Total Eligible Cost: 15.200.000 EURO (tbc)
EC Contribution: 9.870.000 EURO
Merging concrete needs and short-term requirements from European Manufacturing industry (Manufuture, EFFRA, FoF Strategic Roadmap) with a long-term vision of Future Internet Enterprises / Enterprise Systems (FInES Cluster, FI Assembly & Enterprise, PPP core platform)
By 2015, novel service-oriented management methodologies and the Future Internet universal business infrastructure will enable European virtual factories and enterprises to self-organize in distributed, autonomous, interoperable, non-hierarchical innovation ecosystems of tangible and intangible manufacturing assets, to be virtually described, on-the-fly composed and dynamically delivered as a Service, end-to-end along the globalised value chain.
• **Grand Challenge 1**: to make SSME (Service Science Management and Engineering) evolve towards Manufacturing Systems and Factories of the Future.

• New concepts and **Business Models** for Manufacturing Industry:
  – Selling services rather than products (flying hours vs. airplane engines, transport services vs. buses, towards extreme scenarios “dressing seasonal services vs. suits)
  – Physical goods owned (and maintained) by Manufacturers
  – New Pricing models quite independent of production costs and mark-ups

• **Research Challenges**
  – Alignment of Product and Service lifecycles (processes and resources).
  – Is *product as sold* the same as *product as rented*? Impact on design, manufacturing, assembling, dismantling…)}
• **Grand Challenge 2**: to transform current manufacturing hierarchical supply chains into manufacturing open ecosystems to support collaborative innovation.

• For the manufacturing industry **innovation** is key:
  – MSEE advocates collaborative innovation (vs. open and closed): open innovation confined by appropriate regulation and policy instruments for the IPR management.

• **Research Challenges**
  – What best partners to search, select and choose?
  – Do SMEs have the resources to embrace the challenge?
  – How to monitor and control highly distributed processes and SLAs?
Partners Public

Models

Private Ecosystem

Models

Partners Cloud
Models

Ecosystems Cloud
Models

Future Internet Core Platform

IoT, IoP, IoCK, IOS generic enablers

Utility Services

Future Internet Cloud

Interoperability of Services/Platforms

Alignment of Models

Innovation Ecosystem

MSE Platforms
Development Delivery Mobile

Ecosystem Legacy Systems

Value Added Services

Legacy Access Services

Data Access Services

Individual Factory/Enterprise

Enterprise Legacy Systems

Legacy Access Services

Data Access Services

Private Enterprise Models

Tangible Intangible Assets

Private Enterprise Models
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