

<i>RFID-Cluster Project – Project acronym: iSURF</i>	<i>Date:</i> 28.03.08
<i>Project title: An Interoperability Service Utility for Collaborative Supply Chain Planning across Multiple Domains Supported by RFID Devices</i>	
<i>Start date</i> : 01.02.08 <i>End date</i> : 30.07.10 <i>Duration</i> : 30 months <i># of Partners</i> : 7	<i>Submitted by</i> : Prof. Dr. Asuman Dogac <i>Company</i> : Middle East Technical University, Computer Engineering Department <i>Phone</i> : +90-312-2105598 <i>Email</i> : asuman@srcd.metu.edu.tr
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<i>Project objectives:</i> iSURF will develop knowledge-oriented inter-enterprise collaboration tools for European SMEs to enable them to be more agile, self-sustainable and responsive to the changes in the supply chain. An open smart product infrastructure will be developed to collect supply chain visibility information and an interoperability service utility will be provided for seamless exchange of planning documents.	
<i>Project description:</i> In order to guarantee the survival in today’s competitive and demanding digital world of business, the European companies, especially SMEs, should be more agile, self-sustainable and responsive to the changes in the supply chain. Trading partners have different competencies based on their business strategies and varying sources of information. Competitiveness of European Companies is reduced when decision making is inconsistent due to incomplete understanding of the impact of decision on the supply chain as a whole. The distributed intelligence of multiple trading partners needs to be collaboratively exploited in the planning and fulfilment of customer demand in the supply chain in order to achieve “network is the business” vision. As a response to this need iSURF project will provide a knowledge-oriented inter-enterprise collaboration environment to SMEs to share information on the supply chain visibility, individual sales and order forecast of companies, current status of the products in the manufacturing and distribution process, and the exceptional events that may affect the forecasts in a secure and controlled way. iSURF project will provide an open source smart product infrastructure based on RFID technology using EPCGlobal standards. Through this infrastructure, necessary tools and processes will be provided to collect realtime product visibility events from massively distributed RFID devices; filter, correlate and aggregate them in order to put them into business context. iSURF project will provide a Service Oriented Collaborative Supply Chain Planning Process Definition and Execution Platform based on “Collaborative Planning, Forecasting, and Replenishment (CPFR)” guidelines.	
<i>Field of Application:</i> Our pilot application will be deployed in textile clothing supply chain and will demonstrate how product identification techniques integrated with collaborative planning tools could dramatically improve the efficiency and the effectiveness of this supply chain.	