



SORMA Project Overview

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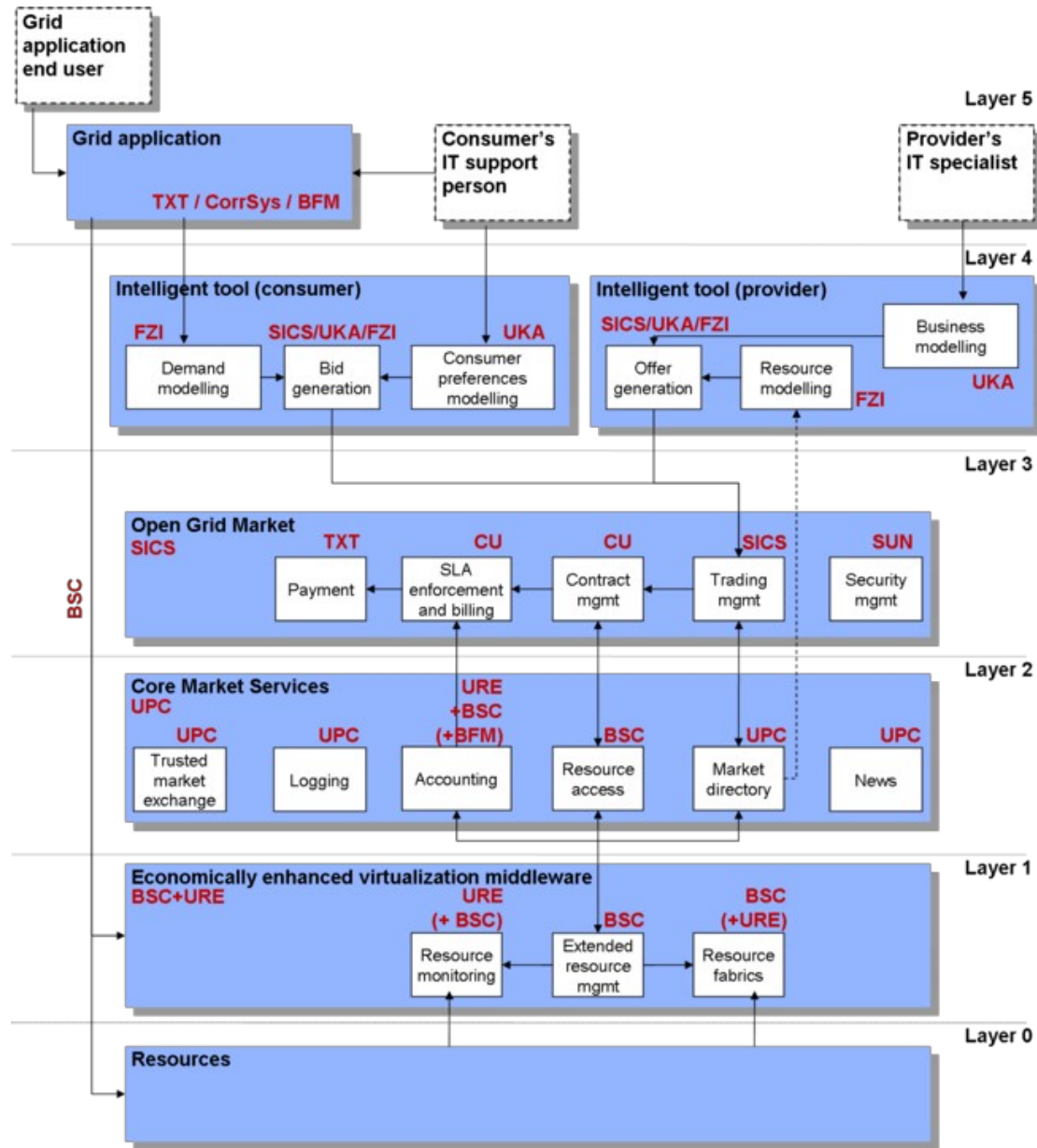
SORMA Project Overview



- Self Organizing ICT Resource Management
- Funded by EU IST under 6th Framework Programme
- 3 years project, 12 partners
 - University of Karlsruhe (Germany)
 - Research Center for Information Technologies (Germany)
 - Cardiff University (United Kingdom)
 - Swedish Institute of Computer Science (Sweden)
 - Research Center at the BFM Bayreuth (Germany)
 - Universitat Politècnica de Catalunya (Spain)
 - University of Reading (United Kingdom)
 - Hebrew University (Israel)
 - **Sun Microsystems (Singapore)**
 - Correlation Systems (Israel)
 - TXT e-Solutions (Italy)
 - Barcelona Supercomputing Center (Spain)

Objective

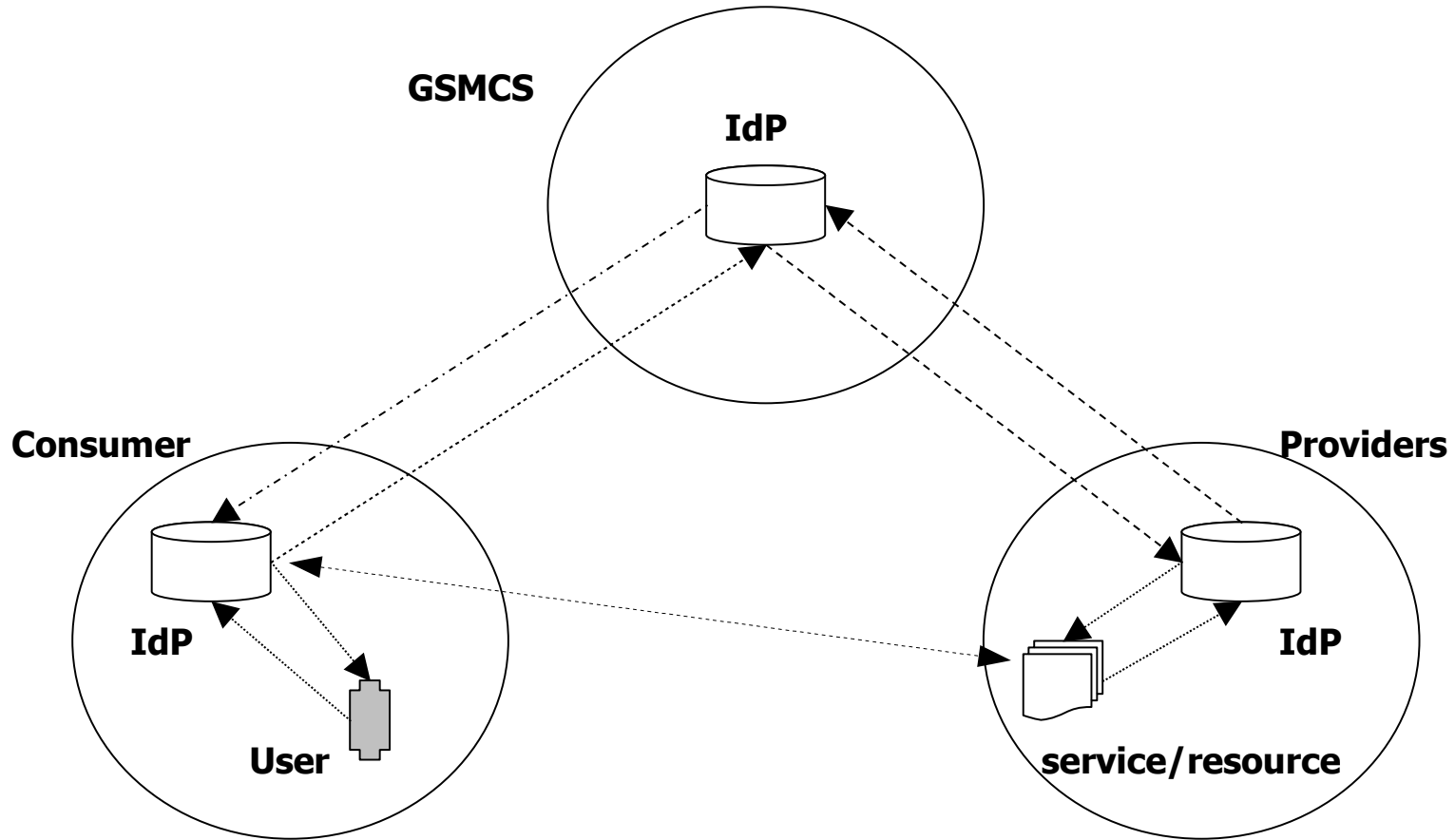
- Develop an “Open Grid Market” platform that allows dynamic trading of ICT resources on demand
- More specifically, SORMA aims to:
 - > Create a framework for realizing self-organizing resource management.
 - > Define an economically sound market structure
 - > Provide resource users with intelligent tools to access the Open Grid Market
 - > Provide resource owners with economically sound sustainable and customizable business models
- Involves everything required to support such a marketplace
 - > decision support for automated bidding, resource virtualization, SLA enforcement, billing and payment etc



Security and Trust Management

- Trust, Security and Contract management
 - > Special emphasis on distributed identity management
- Challenge of Trust
 - > How to dynamically established trust to form VOs in a distributed environment?
- Challenge of Security
 - > Many security standards – how to ensure interoperability?
- Challenge of Contract
 - > Analysis of legal applicability in EU
 - > How to enforce contract?

Federated Identity



Trust and Reputation

- Organizations have reputation based on their past behaviors and other users testimony
- A's trustworthiness is defined by its reputation and others' trust in A
- Application of Trust
 - > Selection of customers
 - > Negotiation of SLAs
 - > Identify mis-behaving users

Standards and Technology

- Security assertion and markup language
 - > SAML 2.0
- Project Liberty
 - > ID-FF, ID-WSF
- Public key infrastructure
 - > X.509
- Webservice security
 - > WS-Trust, WS-Security

Existing Tools

- Sun Access Manager, Identity Manager
- Shibboleth
- TrustCom
- GUMS

Security Task Force

- University of Reading
- Cardiff University
- Sun Microsystems, Singapore

SORMA Past and Upcoming Events

- 04-05 Sep 2006: SORMA kick-off meeting, Karlsruhe
- 06 Dec 2006: SORMA architecture workshop, Frankfurt
- 25-26 Jan 2007: SORMA meeting, Barcelona

Thank you

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