

SPICE Partners

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- Alcatel CIT, France
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- Siemens AG, Germany / Austria
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- The University of Surrey, UK
- Norwegian University of Science and Technology, Norway
- Politecnico di Torino, Italy
- Telekomunikacja Polska, Poland



SPICE at a glance

SPICE is an IST Integrated Project within the 6th Framework Programme, coordinated by



The project started in January 2006 and will last 2,5 years

Overall Budget: 22 M€ (12 M€ funded by EU)

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SPICE is part of the Wireless World Initiative (WWI), a major effort from industry, academia and government to lay foundations for the long-term future of global wireless communications.

www.wireless-world-initiative.org



SPICE project

Service Platform for B3G
Innovative Communication
Environment



- ➔ SPICE addresses the challenge of designing, developing and putting into operation efficient and innovative mobile Service Creation and Execution Platforms for converged networks Beyond 3G
- ➔ SPICE researches, develops, prototypes and evaluates an **extendable overlay architecture and framework** for rapid creation and deployment of intelligent and personalised Mobile Communication and Content & Information Services.
- ➔ The SPICE platform will support **multiple heterogeneous execution platforms** allowing for new, innovative services to be spread across different operator domains and over different countries

www.ist-spice.org



SPICE objectives

The key SPICE project objectives are to:

- Provide an easy and simple way to create and roll out innovative services to reduce development time, costs and risks;
- Provide a unified and seamless way to deliver services over heterogeneous execution platforms, network and terminals;
- Enrich the service landscape, through an overlay structure supporting the users and offering a personalised user experience anytime, anyplace;
- Create a trusted and open platform that will simplify the use of services, devices through personalization and customization;
- Enrich current service platform functionality with content management features and intelligent service-controlled context-information processing;
- Open-up to new business models & value chains;
- Enable Pan-European service provisioning, and seamless roaming of applications and services across commercial and national borders;
- Promote the uptake of innovative IT software technologies in a telecommunications grade service platform environment.

Expected impact

SPICE will allow operators to take up the role of Service Provider, and will build a user-transparent infrastructure that hides the complexity of services and applications crossing over different access domains and copes with the various access network technologies and offering a diversity of services.

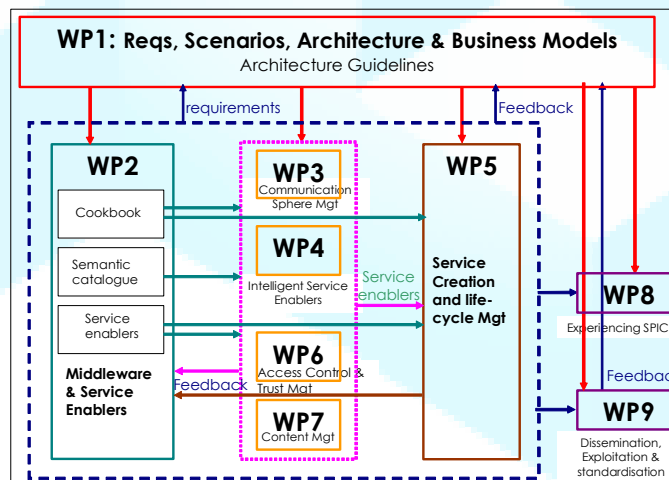
SPICE key principles

The telco approach to intelligent/user centric content and service provisioning and delivery in SPICE is characterised by the following key principles:

- ➔ Platform-centric approach
- ➔ Multi-terminal, multi-access distributed communication sphere
- ➔ New service ecosystem building
- ➔ Service composability and loosely coupled approach
- ➔ Open and controlled access
- ➔ Semantic-enhanced middleware
- ➔ Scenario-driven approach

SPICE technical approach

The SPICE Project is structured in eight technical work-packages (WP), corresponding to eight main research fields. Two additional WPs are dedicated to project management and dissemination, standardisation and training.



Work package structure of SPICE

- **WP1 (Requirements, Scenarios, Architecture and Business Models)** is focusing on the overall SPICE architecture and framework.
- **WP2 (Middleware & Service Enablers)** aims at developing a component-based middleware layer to ensure the inter-working of distributed service components, across various networking and enterprise domains integrating 3rd party service providers.
- **WP3 (Distributed Communication Sphere Management)** aims at technically supporting the users by setting-up mechanisms and solutions that provide them with 'always on' and the 'always best-configured' communication environment.
- **WP4 (Intelligent Service Enablers)** aims at providing intelligent service platform solutions for user profile and context information management and for pro-active service adaptation (anticipatory and attentive middleware functionality).
- **WP5 (Service Creation and Life-Cycle management)** will specify and prototype an advanced Service Creation and Execution environment.
- **WP6 (Service Access Control and Trust Management)** is focusing on all aspects related to controlling access to the service platform for users and third party service providers.
- **WP7 (Content Management and Delivery)** is mainly concerned with the preparation and delivery of multimedia content, and with supporting information that facilitate the access to such content.
- **WP8 (Experiencing SPICE)** aims at assembling and validating platform components so as to demonstrate the essential results of SPICE.