

NESSI-SOFT

Scope

Over the next decade, every electronic device will incorporate interaction capabilities supporting the provision of services to both devices and people within continuously changing scenarios, addressing specific business needs and situations in a continuum which de-facto defines a new global system. This new system is no longer purely computer-based, nor is it focused mainly on exchanging information. On the contrary, ICT will increasingly play a role to dynamically support the operations of businesses and the everyday life of citizens in a seamless and natural fashion.

Key properties underlying this evolution include openness, scalability, dynamism and proactiveness, uncoordinated governance and the absence of central control, limited predictability. This evolution is mirrored by the move to distribute solutions not as single software environments but as services – an evolution in which Europe aims to play a major role to evolve towards an Internet of Services.

It is with this shared vision that European Technology Platform Nessi was launched in September 2005. Three years later, Nessi is promoted by 22 industrial and academic partners and a community of 500 members from 300 organisations.

Nessi-Soft played a major role in supporting support Nessi during its foundation years from April 2006 to March 2008.

Advances

Nessi represents a major advance; it is the first time ever that industry and academia have united their forces to define a common service oriented strategy and a target delivery – NEXOF, the Nessi Open Service Framework.

From 2006 to 2008, Nessi-Soft supported Nessi's goals and ambitions and contributed to

- *Refining Nessi's vision* – with 3 volumes of the Nessi Strategic Research Agenda, the definition of NEXOF, the Nessi Open Service Framework, and the Nessi movie on future scenarios
- *Implementing the Nessi vision* – through the support to the Nessi strategic projects
- *Linking with national Nessi platforms* across Europe
- *Creating Nessi events*
- *Moving beyond Nessi* – to reach out to the services community in the context of the Future Internet. In 2008, Nessi teamed up with four major ICT ETPs (eMobility, EPoSS, ISI and NEM) to propose ServiceWave, a new series of conferences designed as the meeting place for industry and academia. Service-Wave is organised in collaboration with ICSOC, the Intern. Conference on Service Oriented Computing

- *Fostering participation to Nessi* – through 14 active working groups: 10 technology focused working groups, 2 adoption working groups dedicated to the SME community and to Open Source and 2 application working groups on health and i-Government.
- *Disseminating Nessi* – over 2 years, Nessi participated to over 160 events. With a quarterly newsletter and an active information Web site, Nessi issues information not only to its 500 members but also to 1,300 active contacts.

Positioning in global context

At the global level, the question is not whether the delivery of software is shifting towards a service oriented model, but rather how and when can this evolution be achieved to guarantee quality of service, ubiquitous operation and continuous availability. Relying on the Internet as an underlying infrastructure, the services evolution needs the Future Internet to be in line with the requirements of a service oriented economy. New alliances between traditional IT industry, telecommunication companies, mobile service providers, media corporations, suppliers of consumer electronics and search engine companies will drive the deployment of the Future Internet to enable

- *Service platforms and front ends*
- *Virtualised service delivery and real-time multimedia*
- *Technology-independent standards for interoperability.*
- *End-to-end solutions for instant, context-aware and personalized service creation*

Nessi-Soft played a key role supporting Nessi establishing collaborations with other European Technology Platforms such as eMobility and NEM.

Contribution to standardization and interoperability issues

Nessi – enabling the next wave of interoperable services through

- ✓ existing standards
- ✓ extended standards

In an era of services, interoperability is the major goal – ensuring that services elaborated by different parties can seamlessly blend to create the environment that best fit user needs. Interoperability is a major reason why the industrial partners of Nessi teamed up, it is the guiding line that drives NEXOF's elaboration. To achieve interoperability, Nessi relies on standards. Nessi's approach is to adopt existing standards and, when needed, provide adaptation to align them better to their intended use. When, and only when, existing or evolving standards do not fulfill the required needs will Nessi promote a new standard.

Nessi-Soft supports activities of the Nessi Standards committee.

Target users / sectors in business and society

Nessi – enabling the next wave of services for

- ✓ Service and software developers
- ✓ System integrators
- ✓ End users
- ✓ Private corporations
- ✓ Public administrations

Nessi's ultimate goal is to enable the next wave of services, providing NEXOF to free service developers and integrators from constraints linked to identification, security, interoperability, quality, privacy etc. Target sectors range from public health, government and educational services to energy, transport, skills and mass services to individual users. Beyond the transformation of existing domains, Nessi foresees the emergence of new applications born from the exchanges between currently disconnected areas. Therefore, target users of NEXOF include software and application developers, systems integrators, technology and service providers, as well as private and public end-users.

Overall benefits for business and society

Nessi – enabling the next wave of services to ensure

- ✓ Faster time to market
- ✓ Protection of mid and long term investment
- ✓ Independence from a single provider
- ✓ Increased competitiveness of the Software and Services European economy

Service providers, whether SMEs or large organisations, will benefit from faster time to market of new services through service infrastructures that offer industrial grade quality.

For public and private corporate users, the availability of NEXOF compliant infrastructures will provide a guarantee of current and future interoperability, independence from a single provider with backing of the industrial community as a whole. In other words protecting their investments.

Examples of use

In Nessi's vision, the service approach coupled to service infrastructures such as NEXOF helps overcome existing limitations linked to incompatible databases, remote access to private information, security and privacy issues that hinder exchange of information etc. Scenarios of the future bring the service level beyond single corporations or administrations and open the door to end user personalization.

Achievements

Nessi-Soft has

At content level

- delivered 3 volumes of the Nessi Strategic Research Agenda;
- defined NEXOF - the Nessi Open Service Framework;
- initiated the Nessi research structure and Strategic Projects;
- defined user scenarios and the user strategy;

At community level

- established the Nessi Office;
- managed the open membership process;
- supported the creation of 14 Working Groups;

At visibility level

- organised 3 major Nessi events;
- participated to 160 events;
- created the Nessi Scenarios movie and the 2007 Interactive DVD;
- distributed 7 newsletters and 10 information flyers;
- implemented Web and Wiki support.



title

Network european software and services initiative support office team

contract number

034359

type of project

Specific Support Action

contact point

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project website and partner list

<http://www.nessi-europe.eu/Nessi/>

EC contribution

1 671 000 €

start date

01/04/2006

duration

24