

Trust, Security and Dependability Working Group

DRAFT

Working Groups – contributing to NESSI

Working groups are at the core of NESSI's roadmap and evolution. Each working group publishes a manifesto describing its mission and scope, its expected outcomes and contact points.

Working groups provide the results of their work to NESSI through the SRA Committee and the Steering Committee and NESSI retains the right to incorporate all or part of their results in the main NESSI Strategic Research Agenda.

As such, each Working Group manifesto is the responsibility of the individual working groups and is not a NESSI endorsed publication.

This preview manifesto is provided in early draft form

Context of the working group

Trust, Security and Dependability are unquestionably principal issues which must be taken into account when we talk about the ambitious objective of using Information and Communication Technology (ICT) to transform the European economy, or even more ambitiously to transform the European way of life.

Commissioner Viviane Reding, during her speech at the high level seminar on ETPs in Vienna said: "We must work, pre-emptively and proactively, to build trust and security in electronic communication. What is at stake here is not just our capacity to protect existing systems, but our ability to make the Internet a key driver for European growth and societal development. Let us take the initiative now!"

The service centric view (i.e. the notion that more ICT will be delivered through the service lifecycle) is changing the way ICT infrastructure and applications will be managed and delivered. As such, this is the main focus for end-to-end security considerations in this proposed NESSI Working Group. Since the services agenda is

changing so rapidly, there is a gap in the progress and capability between academia and industry participants.

The NESSI framework is trying to move forward service-minded research considerations and this proposed Working Group aims at increasing the emphasis on security in service integration issues such as relationships, negotiations or agreements.

We also believe that research should involve a much wider community than those traditionally involved in ICT security, specifically lawyers, social scientists, auditors and economists.

Regarding the proposed methodology, we suggest to introduce a notion of "service ecosystems", where both core services and business domain services are combined and applied to a specific context. We will also make a distinction between technological and application challenges, which largely correspond to the NESSI Framework (technology challenges) and to NESSI Adoption and Landscape (application challenges).



DRAFT

WORKING GROUP MANIFESTO

This preview manifesto is provided in early draft form

Scope of the working group

One of the key challenges in the achievement of a holistic service model is trust and security of core services, the fundament of the NESSI framework. In NESSI's Strategic Research Agenda (SRA), an engineering approach to security management has been proposed. Industry players are underling a need for a high-level, abstract way of specifying and managing security, easy to integrate into applications and to use on any platform. Security decisions are, as stated in the SRA, often hard-coded into an application which adds complexity to the application design and difficulty to adapt it to security policy changes and which lacks flexibility when setting up new service relationships.

Other working groups, such as the EC-funded projects ESFORS and SecurIST, have identified a number of security challenges currently not included in this version of the SRA.

The NESSI Working Group on Trust, Security and Dependability will seek to collaborate with these projects and other groups to enrich the NESSI SRA and also help NESSI cover the trust and security considerations in software and services.

It is important to note that this Working Group will require interacting with other NESSI working groups and other European Technology Platforms due to the very nature of its theme: trust, security and dependability are properties that permeate all application areas and supporting technologies of software and services.

Working method

- è A series of themed *technical* meetings
- è A series of *strategy / management* meetings
- è An email forum for discussion of ideas and strategy
- è The production of working papers or white papers (with a certain level of approval process)
- è The application of appropriate set of measures to ensure progress of the working group
- è Kick-off event – September 2006

Outcomes

- è Report on the state of the art of web services trust and security
- è Report on the on-going community efforts in web services trust and security
- è Summary of Working Group sponsored workshops and events
- è Recommendations for research priorities in software and services trust and security
- è Operational links on security and dependability across European Technology Platforms
- è **Refined inputs for the NESSI SRA** – including structuring the domain, identifying clusters of research and priorities and building a roadmap.

Contacting the working group

- è Pedro Soria-Rodriguez pedro.soria@atosorigin.com
- è Aljosa Pasic aljosa.pasic@atosorigin.com