NESSoS aims at constituting and integrating a long lasting research community on engineering secure services and systems. The project addresses security concerns during the early phases of the development lifecycle of software services and systems, thus contributing to reduce the amount of vulnerabilities and enabling the systematic treatment of security needs through the engineering process. Results are achieved by an integrated and harmonized research programme, by improving the necessary assurance level and by addressing risk and cost during development phase, in order to prioritize and manage investments. NESSoS also impacts training and education activities in Europe, and collaborate with industrial stakeholders to improve the industry best practices and support a rapid growth of software-based service systems for the Future Internet.

requirements modeling
Development methods to enable the creation of a secure architecture
Support to enforce complex security policies on Future Internet applications
Enable assurance in the development of software based services to ensure confidence about the security level
Identify engineering processes that optimize value-for-money in terms of minimizing risk, while keeping cost low and justified
The NESSoS research is driven and validated by using Future Internet Application Scenarios

project description

Research

Security Assurance for Services
Future Internet Application Scenarios
Risk and Cost aware Software Development Lifecycle
Security Requirements for Services
Secure Service Architecture and Design
Programming Environment for Secure and Composable Services

integration

Joint Virtual Research Lab
Integration of existing partners infrastructures
Tools & Methodologies
Partners will work towards connecting their methodologies and tools
Mobility Program
Integration of the partners will leverage on a wide mobility program
Road-mapping and Community Building Efforts
Integration of scientific communities: security, software & services engineering
Knowledge Portal
Composed of research findings and industrial best practices

project partners

www.nessos-project.eu

start date
01 October 2010
end date
31 March 2014
project funding
3,800,000 Euro

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risk and cost aware software development lifecycle

security assurance for services

security requirements for services

secure service architecture and design

programming environment for secure and composable services

future internet application scenarios

spreading of excellence

NESSoS partners are committed to spread their knowledge and research results to the multitude of interested stakeholders, in both academia and industry. Communication about the foreseen impact and progress for Europe also targets a wider audience. The main activities for spreading excellence are dissemination & communication, education & training, and exploitation & standardization.

consortium

www.nessos-project.eu

CREATING A LONG LASTING RESEARCH COMMUNITY ON ENGINEERING SECURE SERVICES AND SYSTEMS

Network of Excellence on Engineering Secure Future Internet Software Services and Systems

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