Secure Provision and Consumption in the Internet of Services

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Project motivation
- In order to provide guarantees to providers, intermediaries, and consumers of IoS, rigorous security validation must be applied.
- Current security validation technologies fall short of achieving this because they are typically used in isolation, e.g. at design time.
- Security analysts must be enabled to carry out security validation not only at production time (e.g. using AVANTSSAR Platform) but also at deployment and consumption time.

Main objectives, principles, and innovation
- Lay technological foundations of a new generation of security analysers for testing and improving security during service deployment, provision and consumption.
- Develop the SPaCIoS Tool combining state-of-the-art technologies for penetration testing, model-based security testing, model checking, and automatic learning.
- Assess the SPaCIoS Tool by running it against a set of security testing problem cases drawn from industrial and open-source IoS application scenarios.
- Migrate SPaCIoS technology to industry (in particular, SAP and SIEMENS business units), as well as to standardisation bodies and open-source communities.

The consortium

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Industry: SAP Research, Sophia Antipolis and Siemens Corporate Technology, Munich

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