

**Steffen Fries** studied information technology at the Technical University of Chemnitz, Germany.

Since 1995 he has been working in the area of security technologies within Siemens Corporate Technologies ([www.siemens.com](http://www.siemens.com)).

As principal engineer his main interest lies on the design and standardization of IT security concepts and solutions.

He started with IT security in multimedia systems and applications targeting security assessments and security architecture definitions, for which he also brought solutions to the IETF (Internet Engineering Task Force) for standardization.



Meanwhile his main interest is cyber security of the energy automation area as one important cornerstone in Smart Grids. Consequently, he is active in the standardization of smart grid cyber security and represents the security interest of Siemens Energy Automation in the IEC standardization for power systems. Here he is editor of different security relevant documents.

Besides standardization he is involved within Siemens internal projects focusing on IT security topics within the product and system development in the energy automation area. In different funded projects, he is active in the investigation into future scenarios and their cyber security implications covering, in addition to energy automation, also electric mobility and the interaction with the charging infrastructure.

Since 2006 Steffen supports IARIA conferences as part of technical program committees, industry/research chair, or in the advisory board, beyond them ICNS, ICIW, Service Computation, and Energy and participated in IARIA conferences as presenter, panelist, and key note speaker. In this regard he provided several contributions to those conferences reflecting the industry view on dedicated topics concerning the IT security. Examples comprise:

- Falk, R.; Fries, S.: The Fifth International Conference on Emerging Security Information, Systems and Technologies – SECURWARE 2011: “Protecting Remote Component Authentication”, August 2011
- Falk, R.; Fries, S.; Hof, H-J: First International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies – ENERGY 2011: “ASIA: An Access Control, Session Invocation and Authorization Architecture for Home Energy Appliances in Smart Energy Grid Environments”, May 2011
- Fries, S.; Hof, H-J; Seewald, M.; Dufaure, T.: IARIA Journals: “ Security for the Smart Grid – Enhancing IEC 62351 to Improve Security in Energy Automation Control”, IARIA International Journal of Advances in Security, February 2011,
- Falk, R; Fries, S: Service Computation 2010: “Security Service for the Rollout of Security Credentials in Ubiquitous Industrial Automation Environments”, November 2010
- Falk, R.; Fries, S.; Hof, H-J: The Third International Conference on Advances in Human-oriented and Personalized Mechanisms, Technologies, and Services – CENTRIC 2010: “Protecting Voice Communication Using Electronic Identity Cards”, August 2010
- Falk, R.; Fries, S.: The Fourth International Conference on Internet and Web Applications and Services – ICIW 2009: “Profiling the Protection of Sensitive Enterprise Multimedia Communication”, May 2009