

Title of Paper

Measuring Security: Necessity and Challenges from Different Views

Presenter

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Instructional Level

Introductory Intermediate Advanced

Target Group

Decision makers, quality management, business development, service architects

Keywords

- Quality & Security
 - Secure Software Lifecycle
 - Security measurements
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Abstract

Why measuring security? How does this work? Are there best practices? This topic is still wide a new and open field. Most people in the IT business still hear "firewalls and virus scanners" if some talks about security. But security is more. Much more. Security encompasses the three attributes "integrity", "availability" and "confidentiality" of managed information. Thus, security means that "everything behaves as expected" - even under potentially malicious external influences. As traditional security measures are no longer sufficient, we need to find a language that meets business need and management thinking. CIOs clearly understand expenses for firewall licenses and administration. And think they are secure. Far from true! The (in)security of software is an "unknown unknown" – managers are not able to make clear, justified decisions. So they either end up exposing barely protected critical information and processes to the Internet or they spend a huge amount of money in protection technology that does not solve the problem. Conclusion: we need to get transparency about the state of the security of applications. Measurable software security will enable business owners making the right decisions.

Biography

Early '06, Markus Schumacher became CEO of Virtual Forge, a leading company in the area of security for business applications. He is member of the iSQI board for the "Certified Professional for Secure Software Development" certification. In addition, he is a representative of the Fraunhofer-Institute for Secure IT (SIT). Markus joined the SAP Product Security Team in '03, later he was project lead in the SAP Research & Breakthrough division. During his time as member of the scientific staff of the IT Transfer Office (ITO) at Darmstadt University of Technology, he initiated the "Hacker Contest", a widely recognized course where the participants examined recent security topics in the roles of both attacker and defender. Markus Schumacher holds a PhD in computer science and is a frequent speaker at international conferences. He published numerous articles (recently: "The Cross Site Scripting Threat") and books (recently: "Security Patterns - Integrating Security and Systems Engineering").

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