

Contents

About this Book	ix
The EDPS Strategy – Leading by Example	1
Giovanni Buttarelli · Wojciech Wiewiórowski · Christopher Docksey	
Future Ecosystems for Secure Authentication and Identification	12
Malte Kahrs · Dr. Kim Nguyen	
Encrypted Communication	23
The Public Key Muddle – How to Manage Transparent End-to-end Encryption in Organizations	25
Gunnar Jacobson	
Overcoming Obstacles: Encryption for Everyone!	36
Mechthild Stöwer · Tatjana Rubinstein	
Securing Enterprise Email Communication on both Sides of the Firewall	46
Dr. Burkhard Wiegel	
Cloud Security	59
On Location-determined Cloud Management for Legally Compliant Outsourcing	61
Bernhard Doll · Dirk Emmerich · Ralph Herkenhöner · Ramona Kühn · Hermann de Meer	
Cloud Deployments: Is this the End of N-Tier Architectures?	74
David Frith	
Secure Partitioning of Application Logic In a Trustworthy Cloud	87
Ammar Alkassar · Michael Gröne · Norbert Schirmer	
Doubtless Identification and Privacy Preserving of User in Cloud Systems	98
Antonio González Robles · Norbert Pohlmann · Christoph Engling · Hubert Jäger · Edmund Ernst	

Industry 4.0 and Internet of Things _____ 109

Industry 4.0 – Challenges in Anti-Counterfeiting _____ 111

Christian Thiel · Christoph Thiel

Trust Evidence for IoT: Trust Establishment from Servers to Sensors _____ 121

David Ott · Claire Vishik · David Grawrock · Anand Rajan

Cybersecurity and Cybercrime _____ 133

Making Sense of Future Cybersecurity Technologies: _____ 135

Claire Vishik · Marcello Balduccini

How the God Particle will Help You Securing Your Assets _____ 146

Roger Bollhalder · Christian Thiel · Thomas Punz

Proximity-Based Access Control (PBAC) using Model-Driven Security _____ 157

Ulrich Lang · Rudolf Schreiner

Trust Services _____ 171

A pan-European Framework on Electronic Identification and Trust Services _ 173

Olivier Delos · Tine Debusschere · Marijke De Soete · Jos Dumortier · Riccardo Genghini · Hans Graux · Sylvie Lacroix · Gianluca Ramunno · Marc Sel · Patrick Van Eecke

Signature Validation – a Dark Art? _____ 196

Peter Lipp

A Comparison of Trust Models _____ 206

Marc Sel

A Reference Model for a Trusted Service Guaranteeing Web-content _____ 216

Mihai Togan · Ionut Florea

Authentication and eID	225
Architectural Elements of a Multidimensional Authentication	227
Libor Neumann	
Bring Your Own Device For Authentication (BYOD4A) – The Xign–System	240
Norbert Pohlmann · Markus Hertlein · Pascal Manaras	
Addressing Threats to Real-World Identity Management Systems	251
Wanpeng Li · Chris J Mitchell	
Regulation and Policies	261
Information Security Standards in Critical Infrastructure Protection	263
Alessandro Guarino	
Data Protection Tensions in Recent Software Development Trends	270
Maarten Truyens	
Changing the Security Mode of Operation in a Global IT Organization with 20000+ Technical Staff	286
Eberhard von Faber	
Index	305

ISSE 2015

Highlights of the Information Security Solutions Europe
2015 Conference

Reimer, H.; Pohlmann, N.; Schneider, W. (Eds.)

2015, XIII, 315 p. 76 illus. in color., Softcover

ISBN: 978-3-658-10933-2