



Dr. István Zsolt BERTA

Date of birth: 24th of August, 1978.

E-mail: istvan@berta.hu

Website: www.berta.hu

Cellphone: +36 30 2483630

Address: Egry J. u. 19-21, Budapest, Hungary, H-1111

Key Skills

- *General overview of information security*, experience in both the managerial, policy-oriented and the technical approach
- *In-depth knowledge* of electronic signatures, public-key infrastructure (PKI), cryptography and smart card security
- Ability to ‘*translate*’ between managers, IT experts, lawyers and other non-technical people, can present and explain technical issues to non-technical people
- Ability to *seek and find good compromises* between security and usability
- Excellent command of *English* (advanced level exam), understands and reads *German* (intermediate level exam), *Hungarian* as mother tongue

Qualifications

- *PhD in IT security* (2006), [Budapest University of Technology and Economics](#) (BME); dissertation on [creating digital signatures at malicious computers](#)
- *MSc in technical informatics* (2001), BME
- *Master of Business Administration* (2004), Buckinghamshire Chilterns University College, Számalk Open Business School; dissertation on the [Hungarian electronic signature market](#)
- *Certified Information Systems Auditor* (2006), #646678
- *Electronic signatures expert* (2007), registered by the [National Media- and Communications Authority of Hungary](#), #7080-3/2007

Work Experience

Microsec Ltd. (www.e-szigno.hu),

PKI Expert (2004-), Deputy Director of Certificate Authority (2006-),

Director of R&D and Operations (2007-)

Research & Development:

- Designed the first ‘qualified’ long-term archiving service provider in Hungary operating according to the Hungarian e-signature act
- Participated in the [specialist task force](#) of the European Telecommunications Standardization Institute (ETSI) elaborating European standards on information preservation security management ([ETSI TS 101 533 -1](#) and [-2](#))
- Arranged the acceptance of Microsec certificates at Microsoft and Mozilla
- Elaborated a [training course](#) and [wrote a book](#) on electronic signatures and PKI
- Established the [PKI knowledge base](#) on the website of the company
- Represents the company at international technical forums ([ETSI](#), [EFPE](#), etc)
- Responsible for integrating technical novelties into the portfolio of the company
- Disseminates PKI knowledge at conferences and [in press](#)

Operations & Information Security:

- Responsible for information security within the company
- Introduced an information system (CRM, issue tracking and internal knowledge base) based on open source software and internal developments, adjusted to the needs of the growing organization
- Established and organized business processes of the certification authority
- Reformed the ISO 27001 and ISO 9001 systems of the company according to the needs of the growing organization, responsible for the operation of these systems
- Introduced a card-based access control system
- Responsible for complying with standards and legal requirements on electronic signatures

Budapest University of Technology and Economics (crysyst.hit.bme.hu)**PhD Student at the Laboratory of Cryptography and Systems Security (2001-2004)**

- Teaching and researching IT security; field of research: cryptography, smart card security, digital signatures at malicious terminals
- Led the team of experts elaborating the ‘[HUNEID](#)’ (Hungarian electronic ID) smart card specification for the Hungarian Ministry of Informatics

Publications

- I. Zs. Berta: [NAGY E-SZIGNÓ KÖNYV \(Big Book of e-Signature\)](#), ISBN: 978-963-08-1168-2, p518, Microsec Ltd., 2011.
- I. Zs. Berta: [Managing SHA-2 migration – Replacing foundations of a PKI](#), European Forum on Electronic Signature and PKI, Międzyzdroje, Poland, 6-8, June, 2011.
- I. Zs. Berta, L. Buttyán, I. Vajda: A framework for the revocation of unintended digital signatures initiated by malicious terminals, IEEE Transactions on Secure and Dependable Computing, vol. (Vol. 2, No. 3), pp. 268-272, July-September, 2005.
- I. Zs. Berta, L. Buttyán, I. Vajda: Standards for Product Security Assessment, The Handbook of Information Security, Chapter 54, John Wiley and Sons, edited by Hossein Bidgoli, 2006.
- I. Zs. Berta, L. Buttyán, I. Vajda: [Mitigating the Untrusted Terminal Problem Using Conditional Signatures](#), Proceedings of International Conference on Information Technology ITCC 2004, IEEE, Las Vegas, NV, USA, April, 2004.
- see <http://berta.hu/publications/> for a complete list of my publications

Hobbies

- [Blogs on PKI and IT security at berta.hu](#) since 2006
- [Semi-finalist at Bruce Schneier’s Fifth Annual Movie-Plot Threat Contest](#)
- Reading (history, fantasy), absurd humor, traveling, hiking, role playing, video games

Budapest, 1st of July, 2011.

.....
Dr. István Zsolt BERTA