



Future Trustworthy IT Systems

SICS Security Lab
Lund, April 2013

Christian Gehrman

Introduction - content

- Short introduction to SICS
- The Security Lab at SICS
- Workshops and seminars
- The workshop Programme

Facts SICS Swedish ICT AB

- Established 1985
- Turnover 16 Million Euro
- Staff approx.130
 - 70 Ph.D.
 - 9 Professors
- Offices: Kista, Linköping, **Lund**, Uppsala, and Västerås
- Academic Collaboration
 - Universities and technical institutes in Sweden, Europe, Japan, India, China, USA
 - Core partner in EIT
- Owners and Customers
 - Ericsson
 - TeliaSonera
 - SAAB AB
 - ABB
 - Bombardier Transportation
 - Green Cargo
- Other Main Customers
 - Trafikverket
 - Siemens
 - Microsoft
 - Nokia
 - Swedish high-tech SMEs etc

SICS collaboration forms

- Consultancy projects
 - Predevelopment projects (1-12 months)
 - Delivery projects (1-12 months)Funding: company
- Research projects (1-3 years)
Funding: EU, Vinnova, SSF, ...
- Joint lab centres. Portfolio of projects
Funding: company, EU, Vinnova, SSF, ...
- Flexible to where position people, i.e, job rotations

The Security Lab at SICS

- Applied research in IT Security
- Present *both* in Lund and in Kista
- Technology areas:
 - Platform security
 - Security in virtualized software systems
 - Communication security
 - Identity and access management

Workshops and seminars

- Since 2011, we are arranging yearly large seminar in the area of trustworthy IT systems with well recognized international speakers from universities and industry
- Two previous events in Kista, this year in Lund!
- In addition, SICS arranges several larger yearly events such as
 - SICS Open House (spring)
 - SICS software weeks (autumn)

SICS Security Seminar 2013: Future Trustworthy IT Systems, part I

- 09.00 Christian Gehrman, SICS: Introduction
- 09.10 Prof. Adrian Perrig, ETH, Zürich: The Role of Trustworthy Computing to Build Future Secure Internet Architectures
- 10.10 Nicolae Paladi, SICS: How to Secure Infrastructure Clouds with Trusted Computing Technologies
- *10.40 Break*
- 11.00 Prof. Jean-Pierre Seifert, TU-Berlin/Deutsche Telecom Lab: Trustworthy IT Systems – where is the trust boundary
- *12.00 Lunch (included)*

SICS Security Seminar 2013: Future Trustworthy IT Systems, part II

- 13.00 Stefan Andersson, Sony Mobile: Mobile Security Evolution, from Fixed Defenses to Defense in Depth
- 13.30 Ludwig Seitz, SICS: A new Authorization Framework for Internet of Things
- 13.50 Arash Vahidi, SICS: The SICS Hypervisor for ARM project
- 14.10 Assoc. Prof. Tomas Olovsson, Chalmers: Security Issues with the Internet Connected Car?
- *14.40 Break*
- 15.00 Patrik Ekdahl, Ericsson: Creating Security for BYOD – Current Approaches
- 15.30 Janne Uusilehto, Nokia: Mobile security in real life
- 16.30 Christian Gehrman, SICS: Conference Wrap-up