The XXXI Nordic Conference on Law & IT

Ingela D Hellström
Office of Cybersecurity and Critical Infrastructure Protection
The Swedish Civil Contingencies Agency (MSB)
A safer society in a changing world
In collaboration with other stakeholders, the MSB develops the individual’s and society’s capacity to prevent, deal with and learn from emergencies and disasters.
The **entire spectrum** of threats and risks, from everyday accidents to major disasters

- Local, regional, national, EU, **and international**

**Before, during, and after** the occurrence of emergencies, disasters and accidents

**Coordinating** across sector and jurisdictional boundaries and levels of responsibility

MSB will not take over the responsibility of primary stakeholders
The MSB’s role as coordinator, expert authority and source of knowledge is only possible if we place great emphasis on our ability to understand communications, analyze and solve problems and events, and develop new knowledge.
Whoever is responsible for an activity in normal conditions, should maintain that responsibility in a crisis situation.

Standards and rules
Advice and consultancy
Expertise and technology
Coordinated decision making
Coordinated information
Assisting the UN, EU and others
Critical infrastructure is dependent on IT systems
The Challenge

Digitalisation

Security measures
Actor related threats

- Hackers
- Hacktivists
- Organized crime
- Terrorists
- State actors

Potential damage

- Political agenda
- Strategic goals
- Political agenda
- Vested Interest
- Vested interest, in particular towards competitors
- Vested interest, towards Companies and agencies
- Self-assertion, towards IT-system
# Information Security in Sweden

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<td>National Defence Radio Establishment (FRA)</td>
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**Government agencies responsible for a sector**

**County councils (health care) County administrative boards Municipalities**

**Private enterprises and other organizations**
Perspective and Sectors

Using a system perspective

Societal sectors
- Energy supply
- Information and communication
- Financial services
- Foodstuffs
- Health, medical and care services
- Public administration – management
- Safety and security
- Social insurance
- Technical municipal services
- Trade and industry
- Transport

Infosec/Cybersec
MSB’s activities in the field of information and cybersecurity

Policy and direction
Strategy, Action plan, Regulations, Situational assessment

Media sector preparedness
Public private partnership

Response and incident management
NOCF/CERT-SE, National response plan, Cyber exercises

Support for preventive IS work in organisations
- Framework for information security. (recommendations and guidelines to support work in organizations - public and private)
- Critical information infrastructure – SCADA program
- Communications security (civilian)
- e-development (e-administration)
- Standardization
- Awareness raising
- Risk and vulnerability analysis
- Training and R&D
- National CERT
- Governmental CERT (GovCERT)
- Duty Officer 24/7

Teams within CERT-SE
- CERT (Duty Officer)
- Software development
- Outreach
- Operations
Seven trends

• Information security – a value to be balanced among others
• The complexity of modern IT services
• The private sphere, the Information explosion and security

• The security policy dimension of information security
• Crime in Information Societies
• The race to find the weakest link
• Robust information systems and continuity
COLLABORATION – A prime key to success

National Collaborative Entities

- The Collaborative Council for Information Security (SAMFI)
- Forum on Information Sharing: Health Care Services [PPC]
- Forum on Information Sharing: Financial Sector [PPC]
- The Media Preparedness Council
- Intelligence and security forum
- The Municipality Information Security Network (KIS)
- The Information Security Council [PPC]
- Forum on Information Sharing: Industrial Information and Control Systems [PPC]
- National CERT Forum
- Forum on Information Sharing: Telecom [PPC]
- National Telecommunications Coordination Group [PPC]
- The Governmental Agency Information Security Network (SNITS)
- The County Council Information Security Network (NIS)
- Swedish IT Security Network for PhD Students (SWITS)

Gray = MSB run
Green = MSB supported
Yellow = Post and Telecom Agency
Blue = Intelligence Community

PPC = Private-Public Collaboration
International Collaboration

FiRST (Forum of Incident Response and Security Teams)

TF-CSIRT (Task Force - Collaboration of Security Incident Response Teams)
Nordic National CERT Cooperation

• Centre for Cyber Security, Danish Defence Intelligence Service
• Office of Cybersecurity and Critical Infrastructure Protection, Swedish Civil Contingencies Agency
• National Cyber Security Centre Finland, Post and Telecom Administration in Finland
• CERT-IS, Post and Telecom Administration in Iceland
• NorCERT, Norwegian National Security Authority
New regulation

- Mandatory it-incident reporting for government agencies
- Proposal for a new protective security act
- Proposal for a national strategy for cyber security in Sweden
- Civil Defence/ Heighten alert
- The EU NIS-Directive
- The EU General Data protection Regulation

- The government are processing the proposals

National strategy
New protective security act
Inter-disciplinary competence

• Information security a legal interest

• Lawyers, Information Security Officers, Compliance Officers and DPO e.g. have common interest - increase cooperation with other professions

• Inter-disciplinary competence – legal/technical issues increases

• Increase education within the area (e.g. CIAO - Chief Information Assurance Officer, The Swedish National Defence College)
Research for a Safer Society – New knowledge for future challenges

MSB’s research strategy for the period 2014 - 2018

MSB primarily supports applied, needs-oriented research. The aim is to generate practical applicable research findings that will lead to an increased ability to solve societal problems.

- Yearly funding 130 million SEK
- Approx. 80 running project
Research program Security Culture and Information Technology
2012-2017

Research jointly performed by Chalmers University of Technology, FOI, the Royal Institute of Technology, The University of Gothenburg, Örebro University, Karlstad University and Linköping University

Research funding approx. 34 million SEK

The research program aims at improving the information security of organizations. In contemporary information-intensive organizations, a good security culture is vital for the information security.

Research related to factors that implicates information security and organizations ability to adopt a security culture (behavioral, knowledge, awareness and or organizational).
Other research financed by MSB

- CenCIP – Centre for Critical Infrastructure Protection research (Lund University) 2015-2020

- RICS – Resilient Information and Control Systems (Linköping University) 2015-2020

- CERCES – Center for Resilient Critical Infrastructures (KTH Royal Institute of Technology) 2015-2020
### TTA 3 – Usable Security

**Implicit and Continuous Mobile User Identification/Authentication Using Smartphone Sensors**

- University of Houston

### TTA 6 – Modeling of Internet Attacks

**Advanced Situation Awareness of High Impact Malware Attacks Against the Internet Routing Infrastructure**

- Columbia University

### TTA 8 – Incident Response Communities

**Improving CSIRT Skills, Dynamics and Effectiveness**

- Dartmouth College

### TTA 9 – Cyber Economics

**Reducing the Challenges to Making Cybersecurity Investments in the Private Sector**

- University of Maryland
More information

www.msb.se

www.dinsakerhet.se

www.krisinformation.se

www.cert.se

www.informationssakerhet.se

www.sakerhetspolitik.se
Thank you!

Ingela D Hellström
Swedish Civil Contingencies Agency
+46 771-240 240
registratur@msb.se