

Establishing a Centre for Information Security: *Experiences from the Trial Period and Recommendations to Similar Initiatives*

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The Norwegian Centre for Information Security (SIS)

- Initially a trial project
 - 2002-2004
 - <http://www.norsis.no>
- Trial period prolonged until the end of 2005
 - While the government debated a decision...
- NorSIS permanently established January 1st 2006
 - Name changed to correspond with web-address
 - New location, new people
 - New mandate

Background

- Main goals:
 - To provide an overview of threats towards Norwegian ICT systems
 - To obtain and share information, expertise and knowledge about possible threats and relevant countermeasures
 - Establish contact and cooperation with organisations providing similar services in other countries

- In the longer term:

Responsibility for national coordination of incident reporting, warning, analysis and exchange of experience related to threat against ICT systems

SIS target audience

■ Initially:

- Commercial companies and government departments, regardless of size
- National security authorities, who could benefit from utilizing information from SIS
- Politicians and others who could utilize the information as a basis for considerations about the state of security in society

■ In the end:

- Focus shifted to small and medium-sized enterprises (SMEs)

Conundrum...

- SIS was supposed to be a supplement to existing efforts
 - Not to overlap or assume responsibility assigned to anyone else
 - Responsibility for information security in Norway was (and still is) scattered among several ministries
 - Defence
 - Legal
 - Communication
 - Trade & industry (main sponsor of SIS)
 - Result: SIS had no formal responsibility or authority
 - Goal of trial period: decide how SIS could best co-exist with existing efforts
 - Now: The information security coordination council (KIS) added...

Geography & resources

- SIS located in Trondheim
 - SINTEF, UNINETT and NTNU
 - Approx 5 full-time positions
 - Fully government funded
- NorSIS located at Gjøvik
 - Gjøvik University College
 - BlueLight
 - Approx 4 full-time positions
 - Government + private funding



Operation

- Information gathering
- Information sharing
- International cooperation

Information gathering

- What information did SIS need?
 - Attacks
 - Vulnerabilities
 - Exploits
 - Incident reports

- How to get that information?
 - Public/open
 - Closed

Information gathering: difficulties

- Gathering incident reports...
 - Established trust and personal relationships
 - The real issue:
 - needed to demonstrate return on investment

- Solution
 - Informal information gathering
 - Participating in existing networks and informal forums
 - Establishing information sharing groups
 - Within business sectors
 - Regular meetings

Information sharing

- Target audience:
 - Almost everyone..
- Means of communication
 - Web site and mailing lists
 - Information sharing groups
 - Presentations and speeches
 - Participating in work groups
 - National and international

Information sharing: web and mail

■ www.norsis.no

- Threat reports
- Advisories
- Monthly reports
- Alerts
- News

■ Mailing lists

- Alerts – threats and vulnerabilities
- News – relevant information and events

Information sharing groups

- Specific to business sectors
 - Transportation
 - Financial
 - Energy
 - Oil
 - IT
 - Research and education
 - Local government (municipals)
 - ..

- Some new – some existing

- Regular meetings facilitated by SIS
 - Hosted by the participating organizations
 - Approx 8-12 people
 - Focus on common problem
 - Presentations
 - Informal discussion

Information sharing: presentation and speeches

- At professional conferences

- At universities and colleges

- A wide variety of topics related to information security
 - Threat assessment
 - Wireless security, security culture, awareness training, secure software, malware....

- Mainly national, but also some international conferences
 - TERENA 2003
 - FIRST 2004

Information sharing: participation in work groups

- National survey on the underreporting of crime in Norway
 - 2003
 - 2006 (NorSIS)
- Public information security portal (NettVett)
- Research project on protection of national critical information infrastructure
- Establishing an annual conference on ICT security

International cooperation

- Established a Nordic CERT cooperation network
 - Norway, Sweden, Denmark, Finland, Iceland
 - The Nordic CERT forum
 - Annual meetings

- Attended FIRST conference and some TF-CSIRT meetings
 - UNINETT is a member of FIRST
- SIS staff attended the TRANSITS course for training of computer incident response teams (CSIRT)

- Visited
 - NISCC/UNIRAS
 - US-CERT

Main challenges – and recommendations

■ Challenges:

- Information gathering
- National coordination of efforts
- Critical infrastructure and responsibility
- An ever-changing mandate
- Lack of long-term planning

■ Recommendations:

- Need sufficient backing and stable conditions
- CERT activities should be included
- Need clearly defined authority

Questions?

