

Stora Chefsmöte 2.-4. September 2019



Integrity Availability

Background

Two serious events:

- > Trojans in October in 2017
- Attempted crypto mining in January 2018

Audits and reviews:

- Office of the Auditor General
- Watchcom
- Internal audit
- > Deloitte

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Incident October 2017

A core database in Kartverket was attacked



The attack probably used a security hole in a component from a large international supplier used in several of our software solutions

> The security hole was exploited before the supplier was familiar with it

The data in the base was not corrupted

Everything indicates that the attack was carried out by an international player with huge strengths and ability



The big picture

- Understanding the global situation
- Collaboration within the public sector
- Open data, a challenge?
- What are the impacts for NMCAs from the cyber risk
- How well are we prepared

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Cyber security target

- Kartverket shall establish an IT cyber security level that will handle attacks by state threat actors
- To secure the information values against this type of threat actors, a systematic, comprehensive and risk-based approach to security work is necessary. It also involves establishing measures to prevent incidents, but also to detect and respond to incidents that occur.



Security evaluation of Kartverket



Experience figures indicate that we must spend 10 - 15% of the annual IT budget over the next three years meet this security ambition

NIST – National Institute for Standards and Technology

Overall results:

We see significant gaps across all analyzed areas in order to achieve the ambition level. The situation requires a substantial effort and a holistic approach.



Leadership and control

Involves having the necessary structures and policies in place to maintain and improve the organization's security capabilities, thus providing a systematic, comprehensive, and riskbased approach to security work.

Basic security

Involves working proactively to protect systems and infrastructure from cyber attacks, by identifying, implementing, and improving the measures that protect the organization's values.

Prevent and detect

Involves the ability to detect internal and external threats by relying on intelligence and log sources, and work proactively to prevent incidents or minimize the consequences of such events.

Respond and handle incidents

Involves the ability to respond to security incidents that minimize the business impact.

Project plan



The road ahead – a three year program

- The program sets Kartverket in the driver's seat regarding cyber security
- Established a three-year comprehensive program to achieve level four according to the NIST standard
- Ensure that other parallel activities are also well coordinated with this program



Approach

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NIST Cybersecurity Framework (CSF)

Identify	Protect	Detect	Respond	Recover
Develop the organizational understanding to manage cybersecurity risk to systems, assets, data, and capabilities	Develop and implement the appropriate safeguards to ensure delivery of services	Develop and implement the appropriate activities to identify the occurrence of a cybersecurity event	Develop and implement the appropriate activities to take action regarding a detected cybersecurity event	Develop and implement the appropriate activities to maintain plans for resilience and to restore any capabilities or services that were impaired due to a cybersecurity event

NIST Security service catalog Controls

- > Agee current security level
- Establish delta to NIST Level 4
- Implement new controls, awareness programs etc

Discussion / reflexions

- Reflect on this presentation and how you are prepared
- > Is this kind of incidents a threat to your reputation?
- Is there a value in being open about this kind of incidents?





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