



CCDCOE

NATO Cooperative Cyber Defence
Centre of Excellence
Tallinn, Estonia

National Cyber Security and Organisational Research at NATO CCD COE

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Introduction and Outline

- Update on the NATO CCD COE
 - Legal & policy research
- National approaches to cyber security
 - National cyber security strategies
 - National cyber security organisation: *status quo*

*The views and opinions expressed
in this presentation are those of the author.
They do not represent official policy or position of NATO CCD COE,
NATO, or any nation represented at the NATO CCD COE.*

NATO CCD COE: quick facts

Enhance capability, cooperation,
and information sharing
between NATO, Allies and Partners
in cyber defence



Focus Areas and Products

CyCON

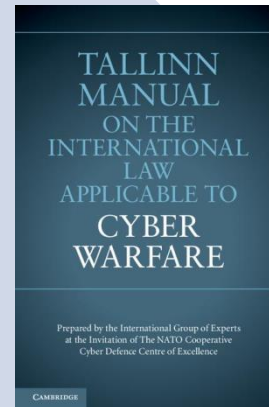
International Conference
on Cyber Conflict

Law & Policy

Strategy

Technology

Research
Consultation
Education
Exercises



LOCKED
SHIELDS

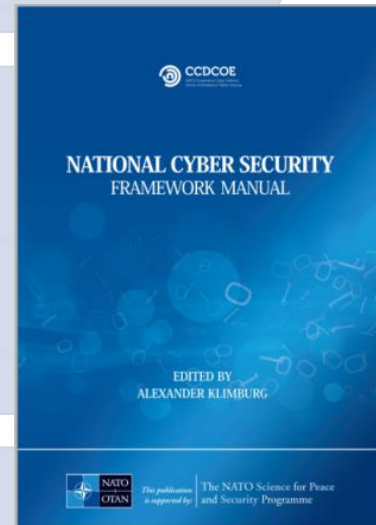
Research and activities on NCSS

Research

- Tools for policymakers and researchers
- National cyber security strategy inventory
- Comparative analysis of national approaches

Publications

- National Cyber Security Framework Manual (NCSFM) (2012)
- NCSS Guidelines (2013)
- NCS organisational structures (2015)

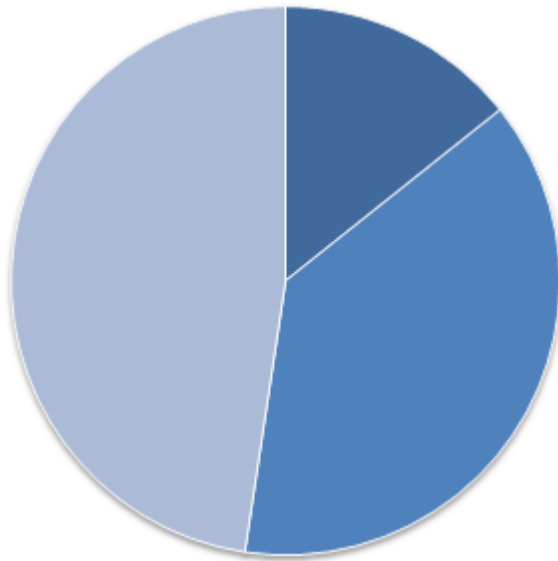


Consultation

- Consulting Sponsoring Nations
- Project and *ad hoc* basis

Strategic reactions to cyber threats

NCSS adoptions (NATO Nations)



2003-2008 (3)

2010-2011 (8)

2012-2014 (10)

2nd Generation: 2014-2015 (3)

- NCSS Inventory
<http://ccdcoe.org/strategies-policies.html>
- 60 nations
 - 21 NATO
 - 20 EU (+2 EEA)
 - All world regions
- 100+ cyber security strategy and legal documents
- Periodically updated

Core objectives and measures

Security of information systems
(incl. CIIP)

Combating cyber crime

Other
(e.g. economic or national defence aspects)

Management structures

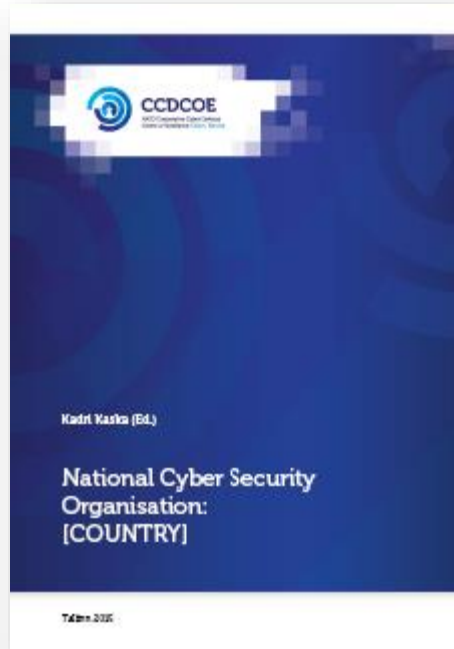
Cooperation

Awareness and competence

National cyber security organisation

- A mapping and comparative overview of national organisational approaches
 - Strategic CS leadership and cyber policy coordination
 - Incident response coordination
 - Military cyber defence capabilities
 - Cyber aspects of crisis management
 - [Cyber intelligence]
 - [Private sector engagement]

Country profiles



- Pilot study of 8 nations
 - Czech Republic
 - Estonia
 - France
 - Italy
 - The Netherlands
 - Slovakia
 - United Kingdom
 - United States
- More upcoming in 2015-16
- <https://ccdcoe.org/national-cyber-security-organisation.html>

Conclusion

- National priorities and governance will vary, unreasonable to expect uniformity
- Organisational differences not a problem *per se*, clear responsibilities and transparency support cooperation



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Thank you!
Questions?

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