

NATO Communications and Information Agency



"From Assets
to Services Capability Delivery
in the
21th Century"



The Association for Communications, Electronics, Intelligence & Information Systems Professionals

25-27 March 2014

Bucharest, Romania

NATO C4ISR Industry Conference & TechNet International 2014

"on the occasion of the 10th anniversary of Romania's accession to NATO"

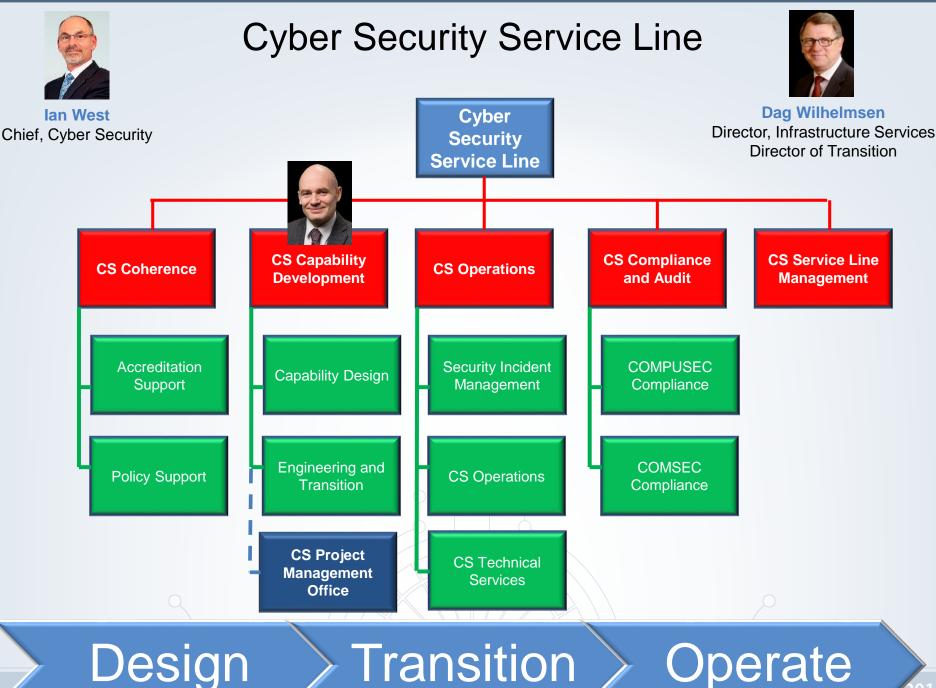


NATO Communications and Information Agency Agence OTAN d'information et de communication

NATO Cyber Security Capabilities & Industry Opportunities 'Building on Solid Foundations'

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Operate Transition

2014

Cyber Security Service Line

- Advantages of Consolidation -
- Horizontal and vertical integration: of Cyber Security, embedded into all Agency Service Lines and structure
- Lifecycle approach:
 - Less duplication and efficient use of deep, specialised expertise throughout requirement analysis, development, operational use and decommission phases
 - Promotes 'security by design'
 - One-stop-shop for stakeholders
 - Synergies of operators and developer alignment
 - Operator requirements are understood by developers
 - Development potential is understood by operators



Cyber Threats

- Global:
 - Viruses and Malware
- Specific:
 - Targeted Attacks against NATO
 - Organised Crime
 - Cyber Espionage
 - Hacktivism
 - Website defacements
- User violations







Multinational Cyber Defence Capability Development (MN CD2) Programme

5 participating Nations (CAN, DNK, NLD, NOR and ROU) supported by the NCI Agency

WP1 – Technical Information Sharing:

Aims at delivering a platform facilitating the exchange of information related to cyber incidents between national Computer Security Incident Response Teams (CSIRT).

WP2 – Situational Awareness:

Aims at delivering a cyber visualization system for cyber networks operators.

WP3 – Distributed Multi-sensor Collection and Correlation Infrastructure:

Aims at delivering architectures and solutions to counter the threat of advanced malware.

Business Opportunities: consultancy support, software development, solution integration



Key Project Data

Project Name: MN CD2

Funding Range: € 1-2 M

Timeline: 2014-2016

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Cyber Security Data Exchange and Collaboration Infrastructure (CDXI)

CDXI concept developed under NATO's Transformation Programme of Work

CDXI has 3 objectives:

- Facilitate information sharing
- Enable automation
- Facilitate the generation, refinement and vetting of cyber security data through burdensharing collaboration and outsourcing

Prime candidate for the next Cyber Defence Capability Package

Business Opportunities: software development, solution integration, level 1 and 2 maintenance support, development of training package



Key Project Data

Project Name: CDXI

Funding Range: € 6-8 M

Timeline: 2016-2018

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Support to Cyber Security R&D activities

Support various activities conducted under NATO's Transformation Programme of Work in the area of:

- Cyber Defence resilience
- Malware analysis on the Wire
- Insider threat risk mitigation
- Cyber Defence Education and Training
- Mobile Device Security
- Cloud based security protection
- Cyber Decision Decision Support System

Business Opportunities: consultancy support, technology assessment, support to concept development and validation



Key Project Data

Project Name: ACT POW

Funding Range: € 2-3M

Timeline: 2014-2017

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NATO PKI (NPKI)

Enterprise Architecture approach validated by the NATO Resource Community

Will provide key enabling security technology in support of:

- Identity Federation,
- Community of Interest Separation,
- Non-Repudiation,
- Integrity services.

Strong dependencies with all major infrastructure programmes (e.g. ITM, NNHQ).

Business Opportunities: PKI architecture design and implementation, level 1 and 2 maintenance support, development of training package



Key Project Data

Project Name: NATO Public Key Infrastructure

Funding Range: € 12M

Timeline: IFB Release Q4 2014

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Are we there yet?

NCIRC FOC is not the end-it's a journey.

- evolving threats
- changing technology



What's next for Cyber Security?

- Develop second phase of the NCIRC FOC project:
 - Alternate Capability
 - Complete the CD Decision and Support System
- NCI Agency working with partners to develop a continuous cyber resilience programme to:
 - Anticipate threats
 - Prevent attacks
 - Detect incidents, internal and external
 - Recover from successful attacks
 - Investigate incidents
 - Extend NCIRC coverage to unprotected and deployed sites
 - Improved cyber resilience and recovery capacity
 - Improve business continuity planning

NAS⁸14 CYBER SECURITY SYMPOSIUM

Securing the NATO Enterprise 2020 - Collective Defence in Cyberspace -

16-18 September 2014, Mons EXPO

The symposium of choice for 1000+ Cyber Security professionals:

- High-level strategic briefings from senior NATO and Industry cyber experts
- Deeper-diving specialist tracks covering all cyber security issues
- Valuable and intimate networking opportunities with Industry, Civil and Military ICT, Cyber Security and Network professionals

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