NATO SMART DEFENCE

3rd NATO Cyber Defence
Smart Defence Projects' (CD SDP)
Conference

"CYBER POOLING & SHARING AND SMART DEFENCE"

Academia, Industry and EU-NATO Cooperation



Organised by
The Ministry of Defence of Portugal (MDN)
with support from the NATO Allied Command Transformation (ACT)
NATO Industry Cyber Partnership (NICP),
CIIWA, EuroDefense Portugal and AFCEA Portugal

PORTUGAL

(Lisbon, 27-28 April 2017)

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***Registration** (no fee):*
http://3cdsdpconf.academiamilitar.pt/



Background

During the last two decades, the world has been deeply influenced by the digital revolution and the rapid pace of ICT developments. Information Age brought an unprecedented economic and social development but also created new security challenges and risks, mainly due to modern societies' increasing network dependencies. Taking into account that cyberspace has no physical borders and attending to the growing disruptive and destructive power of cyber threats, the new NATO strategic vision highlighted the need of setting-up a cooperative cyber defence capability in order to meet current and future security and defence challenges.

According to the NATO Strategic Concept, adopted in November 2010 in Lisbon, the concept of Smart Defence seeks to stimulate synergies and foster Allied Nations cooperative efforts, in order to ensure the development, acquisition and maintenance of the necessary military capabilities. Smart Defence is thus assumed by NATO as a way of non-duplication and integration of national capability development initiatives (pooling and sharing), capable of allowing a better prioritization and coordination of efforts between NATO and Allied Nations.

In the area of Cyber Defence, there are already three Smart Defence Projects: Multinational Cyber Defence Capability Development (MN CD2), Malware Information Sharing Platform (MISP) and Multinational Cyber Defence Education and Training (MNCDE&T).NATO's Smart Defence calls for a renewed cooperation culture and requires an innovative approach in order to better enhance the Alliance's cyber defence.

The joint declaration signed in Warsaw on 8 July 2016, gave a new impetus and substance to NATO-EU cooperation, highlighting the need to adopt a multidimensional framework (NATO-EU) and a synergetic approach (Smart Defence and Pooling & Sharing) in order to reinforce the NATO-EU complementarity of efforts on the field of Cyber Security and Cyber Defence.

Objectives

Building upon the encouraging results of the 1st and 2nd NATO CD SDP Conference, the 3rd edition of this Conference is intended to enhance the development of synergies, reinforcing the NATO-EU complementarity of efforts on the field of Cyber Security and Cyber Defence and stimulating the cooperation between all the Cyber Defence Smart Defence Projects. A special attention will be given to NATO's cooperation with Industry and Academia and to new NATO-EU cooperation opportunities in the field of Cyber.

In line with this idea, Cyber Defence related Projects (MNCD2, MISP and MNCDE&T) are strongly committed to join efforts and work together with industry and academia, building the necessary bridges between international and national initiatives.

This 3rd NATO CD Smart Defence Projects' Conference has the following main objectives:

- Reinforce the NATO-EU complementarity of efforts on the field of Cyber Security and CD.
- In line with the recent NATO-EU Joint Declaration, enhance the implementation of the common set of proposals by promoting a Synergetic Approach (Smart Defence and Pooling & Sharing), namely on the areas of Cyber Defence Education, Training and Exercises
- Develop synergies and stimulate the cooperation between all the NATO's CD Projects in order to foster new initiatives within this Project's cluster as well as with the wider CD community (e.g. national, international, academia and industry);
- Discuss Cyber Defence Competencies & Skills, the building of a Cyber Curriculum and the role of Academia on the development of a Cyber Workforce.
- Promote an active engagement and participation of industry and academia at NATO's and National CD Capability Development processes.
- Promote a Cyber Security and Cyber Defence strategic culture that may stimulate national synergies and foster Allies cooperation.

This event intends to offer a free, open and wide discussion forum, providing industry and academia a unique opportunity to present and discuss new ideas, solutions and technical capabilities.



DAY 1

Thursday, **27 April 2017**

08H00	**Conference Shuttle –** Hotels (TBC) to Military Academy (Amadora)
08H30-09H15	Registration
09H15-09H30	**Conference Opening** – General Artur Neves Pina Monteiro (Joint Chief of Staff)
09H30 / 09H45	**Keynote** **Enhanced NATO Policy on Cyber Defence and NATO-EU Cooperation: Scope and Implications of the Joint NATO-EU Warsaw Summit** Ambassador Luis de Almeida Sampaio (PRT Permanent Representative to NATO)
09H45 / 11H00	**NATO CD Smart Defence Projects and EU Cyber Pooling and Sharing** **Moderator:** Col Luís Villa de Brito, PRT National Parliament Defence Committee **EU Cyber Defence Roadmap: Enhancing Sharing and Collaboration** Mr. Wolfgang ROEHRIG – EDA Programme Manager & Project Officer Cyber Defence **NATO CD Capability Development: The Role of Smart Defence** Col Philippe van den Dorpe, NHQC3S – Head IACD Branch **NATO-EU Cooperation: The implementation of the Joint Declaration as an example of synchronization** LtCol António Paradelo, Advisor, National Defence Policy Directorate
	Coffee Break
11H15 / 12H30	**Cyber Defence Education and Training – Building the Cyber Workforce** **Moderator:** Col Paulo Viegas Nunes, MNCDE&T Project Manager **Multinational Cyber Defence Education and Training (MNCDE&T)** LtCol Luís Carvalho, MNCDE&T Project **CD Competency Framework and Training Needs** Mr. Allard Kernkamp (NLD MoD), SME for the MNCDE&T Project **Building a Skillful Cyber Force – Cyber Roles** Stephanie Keith (US DoD) - TBC, SME for the MNCDE&T Project **EU-NATO Cyber Cooperation on ET&E** CDR Jan-Peter GIESECKE, Head of Cyber Defence Team and Action Officer, EUMS/EEAS
LUNCH	Lunch
14H00 / 15H00	**Cyber Defence Information Sharing – Creating Shared Awareness and Trust** **Moderator:** LtCol Filip GILLET, MISP Project Manager **The new Malware Information Sharing Platform (MISP) governance model** LtCol Filip GILLET, MISP Project Manager **MISP usage in NATO** Mr. Alex VANDURME, NATO/NCIA Cyber Security
	Coffee Break
15H30/ 17H30	**Cyber Defence Capability Development – Enhancing Capability Building** **Moderator:** LTC drs. P.R. (Paul) 't Hoen, MNCD2 Project Manager **Multinational Cyber Defence Capability Development (MNCD2)** LTC drs. P.R. (Paul) 't Hoen, MNCD2 Project Manager **DMCCI: overarching concept, challenges -** Mr. Konrad Wronka, NCIA SME **Dyne: idea, approach, demo** - Mr. Konrad Wronka, NCIA SME **Semi-automated Response: idea & approach** - Mr. Konrad Wronka, NCIA SME **CSAT: concept status** - Mr. Geir Hallingstad, NCIA SME **CIICS: concept, federation, joining, demo** - Mr. Geir Hallingstad, NCIA SME **CDSA: process, result** - Mr. Geir Hallingstad, NCIA SME **Future work and concluding remarks**- LTC drs. P.R. (Paul) 't Hoen, MNCD2 Project Manager
17H45	**End of Day1** – Conference Shuttle to Airport / Lisbon Centre Hotels



DAY 2

Friday, **28 April 2017**

08H30	**Conference Shuttle –** Hotels (TBC) to Military Academy (Amadora)
09H30 / 10H00	**Keynote** **EU Cyber Security and Cyber Defence Capability Building** Brigadier General Martin KONERTZ, EDA Capability Armaments and Technology (CAT) Director
10H00 / 11H15	**Cyber Defence Pooling and Sharing** **Moderator:** Mr. Wolfgang ROEHRIG, EDA Programme Manager & Project Officer Cyber Defence **Coordination Projects:** **"EU Cyber Defence Education, Training and Exercise Centre/Platform Feasibility Assessment"** Susanne Sondergard, RAND Europe **"Cyber Defence Training and Exercises Platform" (CDTEXP) Project** João Cintra (GMV), Project Manager and José Borges (CINAMIL) **Training & Education P&S Projects:** **"EU Cyber Ranges Federation" Project, and** **"Demand Pooling for the Cyber Defence Training and Exercise support by the private Sector" (DePoCyTE) Project** Cdr Ralf Fornefeld (DE) **Technology P&S Projects:** **"Cyber Situation Awareness Packages for HQs" (CySAP) Project, and** **"MultiAgent System for APT Detection II" (MASFAD II) Project** Mr. Salvador Llopis, EDA Project Officer Cyber Defence-Technology
	Coffee Break
11H30 / 12H45	**Industry and Cyber Defence Capability Development** **Moderator:** Col Arlindo Neves Lucas, MoD Resources Directorate **"Agility as a main driver of Cyber Defence tactical capabilities" -** Francisco Rente, Dognaedis **"Cyber-Defense Training Environment"** - Francisco Gonçalves, Novabase IMS / Axians **"Thales a Global and Trusted Partner in Cyber Security**" - Mr. Patrick Castaings (Thales) and Timóteo Menezes (Edisoft) **"PT - TBD"** - Alberto Marques Mendes
LUNCH	Lunch
14H00 / 15H30	**Academia, Research and Innovation on Cybersecurity and Cyber Defence** **Moderator:** Professor Nuno Neves, FCUL **"Cybercrime Investigation Body of Knowledge (CIBOK) - Coordinating Law Enforcement and Corporate understanding of Cyber Crime" -** Dr. Shane D. Shook, PhD **"The Role of the Chief Information Security Officer"-** Tiago Catarino, IST **"Building Cybersecurity for Industry 4.0: from baby steps to giant runs" -** Francisco Rente, Dognaedis **"Linking Academia and Corporations to enhance innovation: Mentoring companies in strategic procurement in Cybersecurity" -** Dr. Ricardo Reis, PhD (UCP)
	Coffee Break
15H45/ 17H00 – 17H15	**NATO-EU Cooperation in the Cyber Domain** **Moderator:** MGEN Henrique Macedo, MoD Resources Directorate, Deputy Director **Cyber-Security in the EU Common Security and Defence Policy (CSDP) - Challenges and Risks for the EU** Mr. Georgios Chatzichristos, ENISA **Cyber Operations and Cyber NATO-EU Cooperation** Mr. Alex VANDURME, NCIA Cyber Security **Transforming NATO C4ISR and Cyber Training: Building the Future NCI Academy (Oeiras)** Mr Jean Paul Massart, NCIA Chief E&T Service Line **Multinational Cyber Academia and Industry Partnership: A new and innovative approach** Mr. Jamie Shea, NATO ESCD.
	Break
17H30	**Conference Summary**
18H00	**Conference Close –** Dr. Marcos Perestrello – Secretary of State for National Defense
	End of Conference - Conference Shuttle to Airport / Lisbon Centre Hotels

Honour Committee

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CD SDP Conference is organized by the Portuguese Ministry of Defence with support from the NATO Allied Command Transformation (ACT), CIIWA, AFCEA and EuroDefense Portugal together with other NATO, EU and national partners from academia, private sector and government.

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