

DAY 1

KEYNOTE SESSION

Session Chair: Mr Kevin Scheid

- 14:00 – 14:15 CET **Introductions and Welcome Remarks**
Mr Kevin Scheid, General Manager, NCI Agency
- 14:15 – 15:00 CET **Keynote panel on National views on Military Potential of 5G**
Dr Artis Pabriks, Latvian Minister of Defence;
Dr Joseph B Evans, Principal Director for 5G in the Office of the Director of Defense Research and Engineering (Modernization) within the Office of the Under Secretary of Defense for Research and Engineering;
TBD, Norwegian MoD

Break (15')

NATO SESSION

Session Chair: Mr Michal Olejarnik, NCI Agency

- 15:15 – 15:20 CET Introduction by the Chair
- 15:20 – 15:40 CET **NATO Policy Aspects of 5G**
Mr Gerard Elzinga, NATO Headquarters C3 Staff
- 15:40 – 16:00 CET **NATO Transformation Aspects of 5G**
Mr Warren Low, Allied Command Transformation
- 16:00 – 16:30 CET **NCI Agency's Views on Potential and Challenges of 5G for the Military & Q&A**
Mr Luis Bastos, NCI Agency

Break (15')

5G PROGRAMMES SESSION

Session Chair: Mr Luis Bastos, NCI Agency

- 16:45 – 16:50 CET Introduction by the Chair
- 16:50 – 17:10 CET **Military Use of 5G in Norway**
Mr Kennet Nomeland, Norwegian Defence Materiel Agency
- 17:10 – 17:30 CET **Italian MoD Project for a Private IMT Mobile Radio Network**
Capt(N) Andrea Bocchieri, Italian MoD General Staff C4I Transformation Department
- 17:30 – 17:50 CET **Military Use of 5G – The Latvian Experience**
Mr Jānis Garisons, Latvian State Secretary of the MoD & Mr Ingmars Pukis, Latvian Mobile Telephone (LMT)
- 17:50 – 18:10 CET **Squeezing the Most out of 5G Systems and Services for Critical Applications**
Mr Emmanuel Dotaro, Thales & 5G Infrastructure Association
- 18:10 – 18:20 CET Wrap-up of Day 1 by the Chair

DAY 2

TECHNICAL SESSION 1

Session Chair: Mr Antonio Calderon, NCI Agency

- 14:00 – 14:10 CET **Welcome Remarks and Recap from Day 1**
Mr Antonio Calderon, Chief Technology Officer (acting), NCI Agency
- 14:10 – 14:50 CET **5G Military Scenarios and Technology Challenges + Q&A**
Mr Germano Capela, NCI Agency

Break (10')

TECHNICAL SESSION 2

Session Chair: Mr Luis Bastos, NCI Agency

- 15:00 – 15:05 CET Introduction by the Chair
- 15:05 – 15:25 CET **The Role of Standards in Addressing Military Use Cases and Technology Challenges**
Mr Brian K Daly, AT&T
- 15:25 – 15:45 CET **5G for NATO Defence Awareness & Tactical Cloud (5GDATC)**
Mr Alberto Rodriguez, Navantia & Mr Sergio Gamo, Telefonica
- 15:45 – 16:05 CET **mMIMO Beamforming and Open RAN in the Military Domain**
Mr Relja Djapic, Netherlands Organisation for Applied Scientific Research (TNO)

Break (10')

TECHNICAL SESSION 3

Session Chair: Mr Germano Capela, NCI Agency

- 16:15 – 16:20 CET Introduction by the Chair
- 16:20 – 16:40 CET **Scenarios and Challenges for the Deployment of 5G in Military Environments**
Prof Luis Correia, INESC
- 16:40 – 17:00 CET **Non-Terrestrial Networks in 5G – Initial Developments and Status**
Mr Frank Zeppenfeldt, European Space Agency
- 17:00 – 17:20 CET **How to Secure 5G for Military Use?**
Mr Mark Hawkins, QinetiQ (UK)

Break (10')

TECHNICAL SESSION 4

Session Chair: Mr Germano Capela, NCI Agency

- 17:40 – 18:00 CET Introduction by the Chair
- 18:00 – 18:20 CET **Using Set Partitioning to Design a Tactical 5G Antenna Module**
Mr George Elmasry
- 18:20 – 18:40 CET **Enabling Hyper-connected Military Operations through 5G Mission-Critical Networks**
Ms Krishna Balachandran, Nokia Bell Labs Consulting
- 18:40 – 19:00 CET **Posters and Wrap-up**
Mr Luis Bastos, NCI Agency