

Workshop on Transforming Allied Forces through 5G Call for Participation



Workshop on Transforming Allied Forces through 5G

This workshop has been set up to discuss the potential of 5G technologies for military application.

Virtual Event | 7 – 8 December 2020

Time: 14:00 – 18:00 CET (8:00 – 12:00 EDT)

Overview

In its 2020 working paper on 5G, the NATO Communications and Information (NCI) Agency identified the significant potential of 5G technologies to enhance capabilities in different military domains. The paper highlighted a number of initial 5G reference military scenarios in four different **5G military application domains** - deployable CIS for expeditionary operations, tactical operations, maritime operations, and static communications. In this paper, different **5G utilization concepts** were considered, including the use of private military 5G systems, the use of public 5G networks by the military and the use of select 5G technologies in private/bespoke military systems. These concepts, if further developed and analysed by the military communications community, could provide the military with cost-effective gap-filling and/or augmentation capabilities in the future.

However, the potential of 5G technologies entails several challenges that need to be investigated and addressed in an informed dialogue with military stakeholders, industry and academia. In this context, we believe it is pertinent and timely to discuss initial findings and to hear from Allied and Partner Nations, NATO representatives, military stakeholders, industry and academia, about state-of-the-art applications of 5G technology and systems for military needs and requirements. The event will also provide an opportunity for 5G stakeholders from industry and academia, as well as NATO and national policy and capability development stakeholders to discuss views and collaborate.

Call for Participation

Registration for the first NATO Workshop on Transforming Military Capabilities through 5G, hosted by NCI Agency, is now open. The event is by invitation only.

The event will take place virtually from 14:00 to 18:00 CET on Monday 7 and Tuesday 8 December 2020, for which there

are speaking opportunities. The event will include keynote addresses delivered by NATO and national stakeholders on policy, capability development and opportunities and challenges for 5G in the military context.

We are looking for solo speakers for 20-minute talks on four themes:

- **National Programmes on Military Use of 5G:** Addressing what nations are doing in the area of military capability development through the use of 5G networks and/or technologies;
- **Military 5G Scenarios:** Covering military scenarios where the use of 5G technologies can provide benefits to military users in terms of cost-effective, gap-filling capabilities, solutions to interoperability contexts, improved communications and/or new applications, to help identify development requirements;
- **Technology Challenges:** Addressing technical challenges already identified that need to be addressed by the military communications community enabling the implementation of a number of concepts, such as 5G systems operating in NATO bands, small form factor and ease of operation, mobile Integrated Access Backhaul (IAB) and long-range Sidelink for meshed tactical networks, airborne military 5G systems, or military slicing of public 5G networks;
- **Products:** Industrial concepts addressing militarized applications in support of military scenarios and/or related use-cases (like public safety applications).

Participants may be invited to join a panel on these topics.

To foster collaboration, we also encourage invited participants to submit posters related to the above themes for presentation and discussion at a virtual exhibition, as well as to facilitate follow-on conversations with NCI Agency subject matter experts.

How

Complete our Call for Participation form(s) and send your submission(s) to Tatjana.Turkovic@ncia.nato.int before 15 November 2020.

Call for Participation – Speaking opportunities

Title:

Abstract:

Detailed outline:

Theme(s) addressed:

Speaker name:

Speaker title:

Speaker nationality:

Speaker job title (e.g., Senior Scientist):

Speaker organization:

Organization type:

Key contact name:

Email:

Phone number (with country code):

Organization's headquarters (country):

How will you bring a constructive perspective to this workshop on 5G?

Anything else we should know?

Call for Participation – Poster opportunities

Title:

Abstract:

Theme(s) addressed:

Author:

Author title:

Author nationality:

Author job title (e.g., Senior Scientist):

Author organization:

Organization type:

Key contact name:

Email:

Phone number (with country code):

Organization's headquarters (country):

Format instructions: A3 or A2 paper size, PDF file format, landscape orientation. Posters will be made available to participants on a dedicated portal and will be discussed at a poster session.

Please contact Tatjana.Turkovic@ncia.nato.int for any further enquiries.

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the NCI Agency, follow us on:**



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