



NORTH ATLANTIC COUNCIL  
CONSEIL DE L'ATLANTIQUE NORD

**NATO UNCLASSIFIED**  
Releasable to Interoperability Platform

11 January 2021

**NOTICE**  
**NIAG-N(2021)0003**

## **NATO INDUSTRIAL ADVISORY GROUP (NIAG)**

### **NIAG study on the Feasibility to achieve FMN Milestones 2 and 3**

**Exploratory Group meeting to be held virtually on 09 February 2021 starting at 14:30  
and estimated to conclude by 16:30**

#### **Calling notice**

1. A NIAG Exploratory Group meeting to address the Feasibility to achieve FMN Milestones 2 and 3 will be held on 09 February 2021. In light of the continued COVID-19 crisis, this meeting will be held virtually (more information to follow), starting at 14:30 and estimated to conclude by 16:30.
2. An agenda for the meeting is available at Annex 1.
3. The administrative arrangements for the meeting are set out below; the information describing the aim and the objectives of the study is available in Annex 2 (Step 1).

#### **REGISTRATION FOR THE MEETING**

4. Industry representatives willing to take part in this study (further called Participants) are invited to contact their NIAG delegation prior to registering for this study.
5. Participants (even if unable to connect to the meeting) are invited to complete two registration processes:
  - 5.1. A registration for the meeting, via the DI portal at <https://diweb.hq.nato.int/>
    - a) Once on the DI Portal, please go to NIAG, then “events registration” located underneath the NIAG logo in the centre of the screen. This will point you to a page listing upcoming events. Click on the event you wish to register for – open the terms and conditions and complete the questionnaire.
    - b) **Please ensure that you complete the registration for the meeting by 02 February 2021.**

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5.2. A registration to the NIAG Portal, for the newcomers (not being in possession of credentials to NIAG portal), in order to be granted access to the documents prepared for this study.

- a) This registration requires you to fill in the form that opens at <https://diweb.hq.nato.int/> on the top-right hand side of the page, **Register yourself**. Make sure you **select NIAG as community of interest** (a field towards the end of the registration form).
- b) After you click the 'Submit' button at the end of the registration form, a notification will be sent automatically to our office. The NIAG staff will then approve your access in the following days.
- c) This registration shall also be finalised by 02 February 2021 the latest, in order to allow us time to approve your access to the documentation, in order for you to prepare for the meeting. Please note that the first registration (paragraph 5.1.) does not automatically grant you access to documentation.

## **SECURITY CLEARANCE**

6. The Exploratory Group meeting will be held virtually at unclassified level.
7. The study will be open to industries from NATO and Partner nations within the Interoperability Platform (IP) format, and conducted at 'NATO Unclassified releasable to IP' level.

## **USEFUL INFORMATION FOR THE VIRTUAL MEETING**

8. Documents/presentations will be posted on the Defence Investment Portal. **Participants need to ensure that they have access to this website prior to the meeting.** (see the registration process described in paragraph 5.2.)
9. All participants having registered for this study will receive in due time:
  - 9.1. Connection details for this meeting (landline number to dial in Belgium, the costs for the phone call being borne by participants);
  - 9.2. A link to the collaboration site created for this study where the documentation to be used during the teleconference will be posted;
  - 9.3. A link to an electronic survey that will present the volunteers for the study Management Team and be used to vote.

## **STUDY ORGANISATION**

**10.** Industry representatives are invited to consider volunteering for Chairman, Vice-Chairman and Rapporteur roles, which represent the Management Team of the Study Group, and communicate their option to the NIAG Secretary prior to the meeting. A brief description of the management team's role and of the Quick Reaction Team role is available at Annex 3.

**11.** An election for the Management Team will be held under agenda item 5. Only industry participants are entitled to vote, by following the rule of one vote per company and per country.

(signed) Nathalie Van Donghen

**AGENDA for the VIRTUAL Exploratory Group meeting on the Feasibility to achieve FMN Milestones 2 and 3**

*(all items in italic will be considered as consulted by participants **prior** to the teleconference – only questions and clarifications regarding these will be taken at the meeting, as necessary)*

**1. OPENING REMARKS AND INTRODUCTION**

NIAG Vice-Chairman, and Chairman of the meeting: Mr. Pablo Gonzalez (Indra, Spain)

**2. INTRODUCTION TO NIAG STUDY PROCEDURES**

*(presentation to be posted on the NIAG portal, to be consulted by participants prior to the meeting)*

**3. BACKGROUND AND OBJECTIVES OF PROPOSED STUDY**

Briefing by the Sponsor, ACT

*(the briefing will be available on the NIAG portal, to be consulted by participants prior to the meeting. However, the sponsor will brief during the teleconference)*

**4. REVIEW OF DOCUMENTATION REQUIRED FOR THE STUDY**

Document to be discussed during the meeting, defining the study objectives. This document will be amended during the meeting to include industry views and reactions to the 'sponsor' briefing, and when agreed, will represent the basis for CNAD approval of the study. *The initial draft will be uploaded on the collaboration site.*

NIAG Coordinating Officer, Mr. Jean-Sébastien Vautier

*Participants are invited to read this document prior to the meeting to come ready to discuss and exchange under this agenda item.*

**5. NIAG STUDY GROUP MANAGEMENT – ROLES AND RESPONSIBILITIES**

*(presentation to be posted on the NIAG portal, to be consulted by all participants prior to the meeting)*

**6. ELECTION OF STUDY CHAIR, DEPUTY CHAIR AND RAPPORTEUR**

*(the list of participants will be uploaded, with the volunteers for management positions highlighted in yellow)*

Voting will be done electronically during the meeting, only by those being connected at the link to be provided prior to the meeting:

- Participants are allowed to vote only once
- Only one vote per company per nation

**7. STUDY CONTRACTING ARRANGEMENTS, BUDGET & ADMINISTRATION –**

*(presentation to be posted on the NIAG portal, to be consulted by participants prior to the meeting)*

**8. STUDY REPORTING REQUIREMENTS**

*(presentation to be posted on the NIAG portal, to be consulted by participants prior to the meeting)*

**9. DATE OF KICK-OFF MEETING OF STUDY GROUP**

<b>STUDY REQUEST – STEP 1</b>
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**1. Title of Proposed Study:**

NIAG Study on the Feasibility to achieve FMN Milestones 2 and 3

**2. Brief Description of Proposed Study:**

Determine the feasibility and willingness for national industries to design, develop, V&V, integrate and field networking capabilities with enhanced interoperability features in accordance with defined NATO FMN Implementation Plan Milestones 2 and 3, with the projected delivery timelines from the FMN Management Roadmap

**3. Background:**

According to the FMN Management Roadmap, FMN Milestones 2 and 3 should be met within Spirals 5 and 7. Even if the use phase of these Spirals seems to be in the distant future (2026 / 2027 for Spiral 5 and 2030 / 2031 for Spiral 7), Affiliates will have to anticipate these implementations and adapt their procurement processes as needed to ensure compliance with the respective FMN Spiral Specification and timely delivery of the associated FMN Ready Forces.

Milestones 2 and 3 have now been integrated into the FMN Spiral Specification Roadmap, which was developed, in part, by deriving the operational and security requirements necessary to achieve Milestones 2 and 3. Affiliates have approved this roadmap and can individually assess with their own industries the feasibility of each spiral along the lines of the operational and security requirements. However, achievement of Milestones 2 and 3 requires a broader perspective which includes an overview of this feasibility to develop and field these capabilities for the entire federation, with a direct link to Industry as applicable. That's the aim of this study.

Moreover, as the linkages with Industry are usually exclusive between the affiliates and their national Industry, involving NIAG on such a study would help to increase the FMN awareness of Industry throughout all nations of the federation.

FMN Spiral Specifications are non-classified documents, so an unclassified NIAG study is perfectly suited to deal with such a topic.

All FMN Affiliates (NATO Nations + Partners + NCS as an affiliate) have agreed upon the same projected timelines regarding the implementation of FMN capabilities.

**4. Objectives of the Study:**

Specifically to be investigated are the following parameters:

FMN Milestone 2 Capabilities (Mission Network information sharing environments with support for multiple security classification levels within each mission, with a separate physical infrastructure per mission) ready for fielding in 2026-2027;  
FMN Milestone 3 Capabilities (Mission Network information sharing environments with a single common infrastructure for all concurrently existing Mission Networks and their multiple levels of security classification) ready for fielding in 2030-2031.

**5. Please indicate whether you would like to be presented with alternative solution options, taking into consideration that exploring various options may reduce the depth of the study scope:**

The current planning by the FMN CPWG projects the use of Protected Core Networking (PCN) capabilities to achieve the environments described in paragraph 4. As the FMN Vision identifies “Day Zero Interoperable Forces” as what FMN strives to create, in conjunction with the PCN technology, it is likely that FMN CPWG will seek to specify the use of several other technologies to achieve the Data Centric Security solutions desired in Milestones 2 and 3. Among these technologies are mobile, dynamically reconfigurable environments; commercial solutions for classified (CSfC) and virtualized machines. This information is meant to provide context for the study, but also provides an opportunity to assess the feasibility of the use of these other technologies in conjunction with PCN to achieve FMN Milestones 2 and 3. In the event of any of these technologies being evaluated as “not feasible”, any recommendations for alternative solutions would be welcomed by the FMN CPWG for further exploration.

**6. NATO Priority:**

**7. Intended Follow on to the Study:**

Study results will provide very valuable inputs used to revise or adapt FMN Milestones 2 and 3 intended for inclusion in FMN Spirals 5 & 7 respectively (Proposed Spiral 5 Specification - End 2021; Final Proposed Spiral 5 Specification - End 2022).

**8. Other NATO Bodies Involved in the Related Area of Work:**

NATO MCWG(CIS); C3B and Substructure; NoS (NATO Office of Security); NSO (NATO Standardization Office); Cyber Defence Committee, Security Policy Committee; ACO/SHAPE J6 CYBER Division; SHAPE CyOC.

**9. Current Industrial Involvement with the Sponsor Group:**

FMN & TIDE events (TIDE Sprint, CWIX, TIDE Hackatons...).

**10. Proposed Start Date:** January 2021

**11. Desired Completion Date:** End 2021

- 12. **Study Classification:** NATO UNCLASSIFIED
- 13. **Study Open to Partner industries:** Yes
- 14. **Final report releasable to:** Interoperability Platform (IP)
- 15. **Sponsoring Group Point and IS Point of Contact:**

ACT/CAPDEV/REQ/FIB – COL Cécile Marly



**SHORT DESCRIPTION OF THE NIAG STUDY GROUP MANAGEMENT TEAM ROLES**

1. The **Study Group Chairman** is responsible for the carrying out of the study by the Study Group on behalf of the NIAG and for the presentation of the final report. He/she will formulate and direct the study work plan and oversee the administration of the study. The Study Group Chair may call on the NIAG Vice-Chairman, the NIAG Head of Delegation for his nation and the IS NIAG Coordinating Staff Officer to receive advice and assistance as required.
2. The **Deputy Chairman** will assist the Chairman in the management of the study and provide stand-in for the Chairman when and as required.
3. The **Rapporteur** will act as Secretary to the Study Group, supporting the Chair in the administration of the Study Group activities. Normally this will involve assisting with the meeting arrangements, compiling the records of meetings and disseminating information to the SG members. The Rapporteur will also act as the sole interface for the Study Group members regarding NIAG Study processes and procedures. The rapporteur will further communicate with or escalate any unresolved topic to the NIAG secretary as required.

**SHORT DESCRIPTION OF THE QUICK REACTION TEAM'S ROLE**

1. The **Quick Reaction Team** is responsible for assisting the NIAG Study Group in the gathering of information, monitoring the study work, in liaising with other NATO bodies or groups who can provide information and assistance.
2. After delivery of the final report, the Quick Reaction Team is responsible for drafting the "Sponsor Assessment Form" to be considered at the first sponsor group meeting following the final report delivery.
3. This form has then to be provided to the NIAG Coordinating Staff Officer, preferably within 3 months of receipt of the study final report.