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# UPDATE ON NATO's AIRWORTHINESS ACTIVITIES

MR. RICHARD DURIEZ  
Aerospace Capabilities Section  
Armament & Aerospace Capabilities Directorate  
Defence Investment Division  
NATO International Staff

Briefing to  
**EDA's MILITARY AIRWORTHINESS  
CONFERENCE**  
Lisbon, 5 & 6 Oct 2016

- **NATO Airworthiness Policy (NAWP)**
- **NATO's Total System Approach to Aviation**
- **NATO Airworthiness Organization**
- **NAWP Implementation Plan**
- **NATO Recognition Process**
- **Way-Ahead**
- **Questions**



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# NATO AW POLICY (NAWP)



## BACKGROUND

### ➤ AIRWORTHINESS WORKING GROUP (AWWG)

- Established in June 2010 under the auspices of the Military Committee Air Standardization Board (MCASB)
- To develop the NATO Airworthiness Policy (NAWP)

### ➤ THE AWWG

- Issued the draft NAWP in June 2011
- Developed draft guidelines for the NAWP implementation and a draft recognition manual finalized in Oct 2013

## Aim

To establish a **robust airworthiness framework** within the Alliance, based on the principles of economy of efforts, cooperation and interoperability



**All aeronautical assets provided on behalf of NATO shall be:**

- Certified as airworthy by a **NATO recognised Airworthiness Authority**
- Properly controlled i.a.w. approved continued airworthiness provisions
- Operated & maintained i.a.w. approved continuing airworthiness provisions



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# NATO AW Policy (NAWP)



- **APPROVED BY NORTH ATLANTIC COUNCIL (NAC) IN 2013**
- **APPLIES TO ALL AERONAUTICAL ASSETS:**
  - Owned, leased, rented or chartered by NATO
  - Owned, leased, rented or chartered by member, non-member, or Partner nations and operated on behalf of NATO
- **ESTABLISHED THE NATO AIRWORTHINESS EXECUTIVE (NAE)**
  - not a supranational Airworthiness Authority
  - independent from acquisition and ops
  - Dir Armament & Aerospace Capabilities/International Staff

*Not intended to replace nor interfere with national airworthiness system  
(regulation, authority, organizational structure)*



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# NATO's AVIATION COMMITTEE



## ➤ **NATO TOTAL SYSTEM APPROACH TO AVIATION**

- Allies recognized the need to consider all relevant aspects contributing to aviation safety
- Allies determined this important effort requires the authority of one of its 13 key level 1 Committees reporting to the NAC

## ➤ **NATO'S AVIATION COMMITTEE (AVC) HAS BEEN GIVEN THIS ROLE**

- Reorganisation of level 1 Air Traffic Management Committee (ATMC) into two pillars:
  - ATM-Aeronautical CNS-Airfields via the ATM-CNS Advisory Group
  - Airworthiness (AW) through the Airworthiness Advisory Group
- The AVC will be NATO's primary forum for engagement at policy and technical level with international aviation organizations and institutions

- **AVIATION COMMITTEE (AVC)**

Responsible to the NAC to develop, represent and promote consensus views on NATO policies, programmes and capabilities in the ATM and AW domains.

- **ATM-CNS ADVISORY GROUP**

Provides guidance and standards on ATM-CNS-Airfields and related matters.

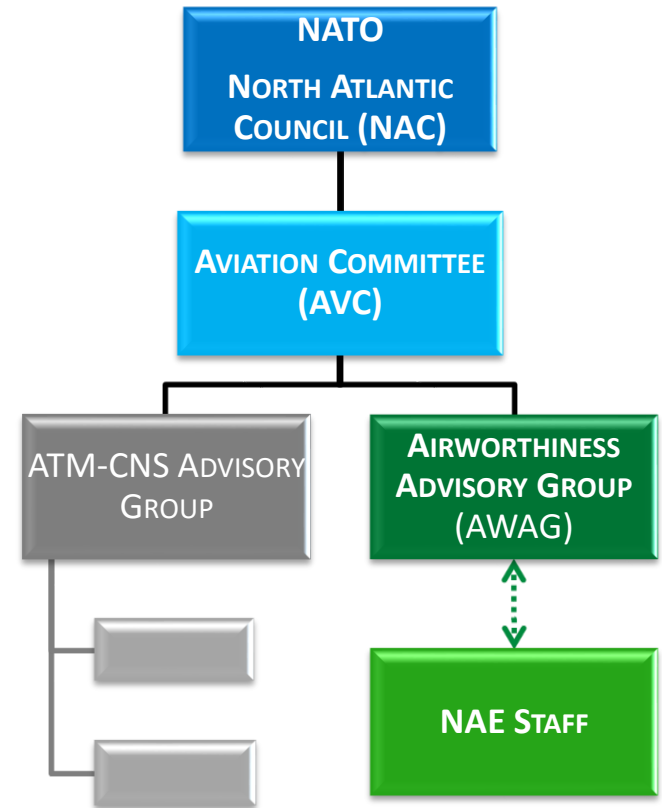
- **AIRWORTHINESS ADVISORY GROUP (AWAG)**

Provides guidance and standards to support the NAE and AVC in implementing the NAWP.

- **NATO AIRWORTHINESS EXECUTIVE (NAE) / NAE STAFF**

Develops, conducts and maintains records of NATO AW recognition activities; maintain AW liaison within NATO and with national and international AW organizations and entities.

- **ACTIVATED 1 JANUARY 2016**



- **THE NAE WAS TASKED TO DEVELOP AN IMPLEMENTATION PLAN TO BE APPROVED BY THE NAC BEFORE THE POLICY TAKES EFFECT**
- **THE NAWP IP WAS APPROVED BY THE NAC ON 01 JUL 2016**
- **THE NAWP IP ADDRESSES HIGH LEVEL PRINCIPLES:**
  - **General considerations**
  - **Organizational structure**
  - **NATO Recognition Process (NRP)**
  - **Way ahead**





## ➤ NAE

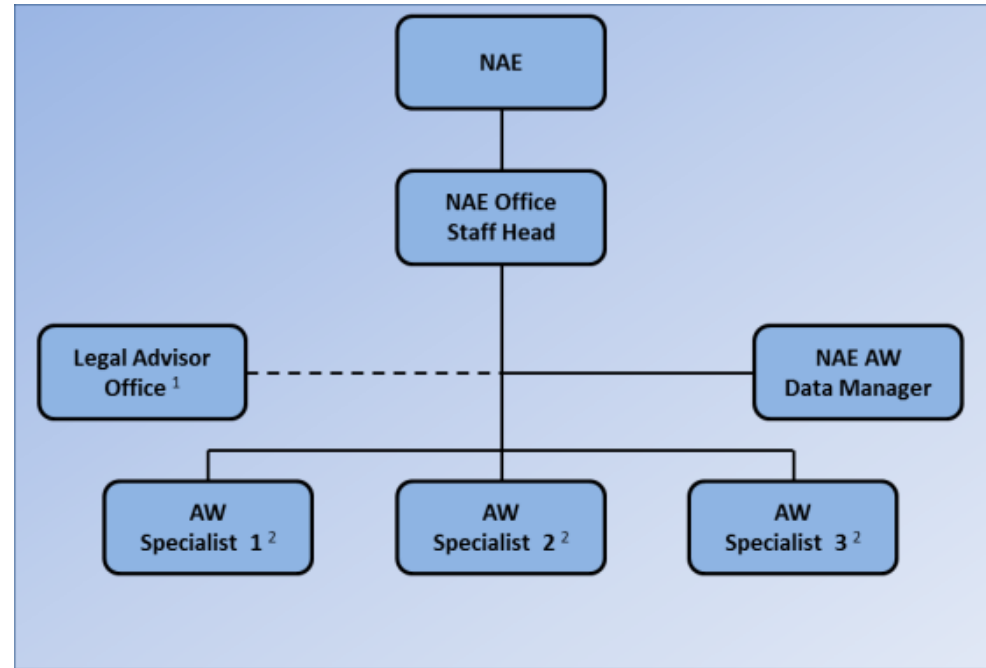
- Director, A&ACAP

## ➤ NAE OFFICE STAFF HEAD

- Head of Aerospace Capabilities Section

## ➤ NAE STAFF

- IS staff officer position created in 2014 with a part-time AW role
- NAE Staff AW Officer position created in Sep 2016
- Data Manager hiring process under finalization
- Another Staff AW Officer to be hired not earlier than 2018 to be provided as Voluntary National Contribution (VNC) in the meantime





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# NATO RECOGNITION PROCESS



- **SEEKS COLLECTIVE NATO RECOGNITION OF THE AW AUTHORITIES OF ALL AERONAUTICAL ASSETS USED ON NATO'S BEHALF**
- **BASED ON MILITARY AUTHORITIES RECOGNITION QUESTION-SET (MARQ) ANNEXED TO EMAD R**
  - Building on its ongoing use among **EDA MAWA Forum members, Air and Space Interoperability Council (ASIC)** members, and others
  - Minimizing duplication of efforts by fully or partially relying on transitive recognition based on extent uni/bi/multilateral recognition activities where applicable
    - Recognitions between MAAs
    - Safety Agreements between CAAs and either EASA or FAA
      - EASA and FAA are recognized without further assessment

- **THE ASSESSMENT OF AAS SHALL BE CARRIED OUT BY AN ASSESSMENT TEAM**
  
- **NATO ASSESSMENT TEAM (NAT)**
  - Consist of 3-4 SMEs from NAE Staff and national AW experts
  - A NAT will be formed to assess each airworthiness authority
  - Conduct the NATO Recognition Review (NRR)
    - Review NATO Recognition Survey (NRS) completed by the AA
    - Follow-up with the AA on any issues needing clarification
    - Prepare a NATO Assessment Report (NAR) on the AA

## ➤ **PROCESS STEPS DEVELOPMENT**

- AWAG develops NRP steps for AVC approval
- Draft under finalization

## ➤ **ESTABLISH NATO RECOGNITION SURVEY (NRS)**

- NAE Staff will develop and submit NRS for AWAG approval
- Reuse of the MARQ of the current edition of EMAD R without any modifications
- Include additional documentation as required

## ➤ REQUEST FOR AW SYSTEM DETAILS

- NAE Staff will coordinate with AA for completion of the NRS
  - Same process with a CAA when there is no Safety Agreement with EASA and/or FAA or if the Safety Agreement is not applicable

## ➤ SELF DISCLOSURE

- AA will complete the NRS and return it to the NAE Staff
- MARQ used for extent recognitions just need to be updated eventually

## ➤ NATO RECOGNITION REVIEW (NRR)

- NAE will designate a NAT for each AA assessment
- NAT will review returned NRS and follow-up with the AA as required, including face-to-face meeting as required

## ➤ NATO ASSESSMENT REPORT (NAR)

- NAT will provide inputs to NAE Staff to generate the NAR
- NAR will summarize the assessment and make NATO Recognition recommendation

## ➤ AWAG REVIEW

- AWAG evaluates the NAR and responds with recommendation:
  - Recognition
  - Conditional Recognition
- **AWAG RECOMMENDATIONS PRESENTED TO NAE**
  - NAE will verify NRP has been followed
  - For Conditional Recognition, NAE will communicate with the AA to resolve any open issues



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# NATO RECOGNITION PROCESS



## ➤ **PRESENTATION TO AVC FOR DECISION**

- NAE will present AWAG recommendation for Recognition or Conditional Recognition to the AVC

## ➤ **AVC APPROVAL**

- If AVC approves NATO Recognition, NAE will issue the AA a NATO Recognition Certificate and inform NATO Members

## ➤ **RECOGNITION REVIEW**

- NATO Recognition will normally be valid for four years
- Significant changes in the AW system may require a review sooner



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# NATO RECOGNITION PROCESS

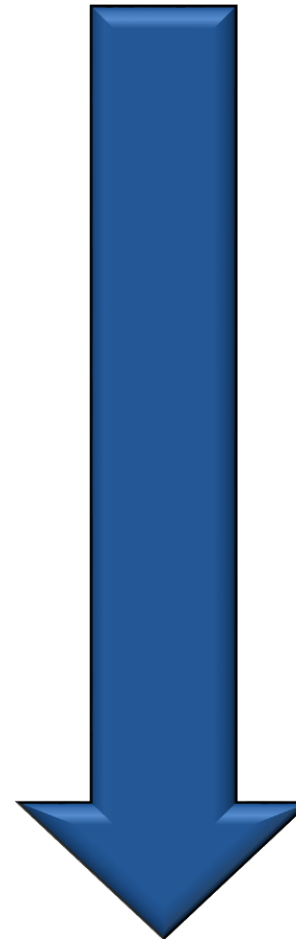


## ➤ EXCEPTIONS

- NAWP has provisions for SACEUR waivers to the NAWP
  - Only under exceptional circumstances for operational needs
  - After considering NAE advice
- NAWP implementation guidelines will specify how the NAE will provide this advice



- Finalize the more detailed documents necessary for the NATO Recognition Process
- Form the NATO Assessment Teams
- Launch the NATO Recognition Process as early as 2017 in the following sequence:
  - NATO Common Assets (AWACS, C17, AGS)
  - 28 NATO Allies
  - Partner and non-Partner Nations
  - Other States





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# Q & A



MR. RICHARD DURIEZ  
Aerospace Capabilities Section  
Armament & Aerospace Capabilities Directorate  
Defence Investment Division  
NATO International Staff  
[duriez.richard@hq.nato.int](mailto:duriez.richard@hq.nato.int)

