



Implementing NATO Recognition of Airworthiness Authorities

Briefing to EDA's MILITARY AIRWORTHINESS CONFERENCE Madrid, 26-27 Sep 2018



Overview



- NATO Airworthiness Policy (NAWP)
- NAWP Implementation Roadmap
 - > NATO Recognition Process (NRP)
 - > Pilot Project
 - > Action Plan
- Optimization of Recognition Processes



NATO Airworthiness Policy (NAWP)



Main principles:

- Applicability (para 7):
 - all aeronautical products, parts and appliances
 - owned, leased, rented or chartered
 - by NATO







by Member, non-Member, or Partner Nations and operated on behalf of NATO

operated on behalf of NATO

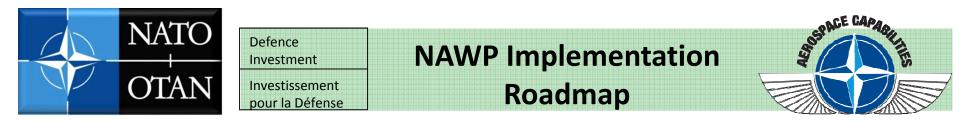


- Out of the scope: all aspects of flight operations, such as operational procedures, flight standards, operator training, aircrew qualification and licensing, and aerospace control operations (para 8)
- Aircraft certification is a sovereign responsibility (para 3)
 - The NATO Airworthiness Executive (NAE) required by the NAWP is not an Airworthiness Authority



Main principles:

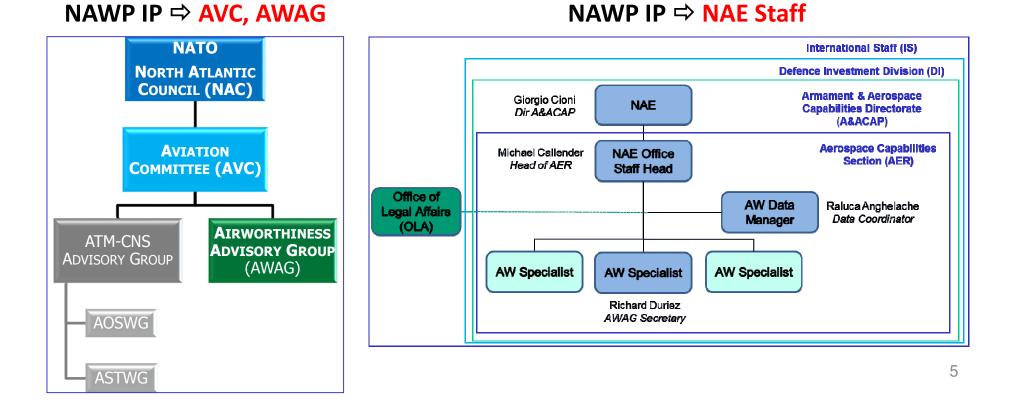
- All aeronautical products, parts and appliances provided on behalf of NATO shall be (para 9):
 - certified as airworthy by a <u>NATO Recognized Airworthiness</u> Authority;
 - properly controlled in accordance with approved continued airworthiness provisions;
 - operated and maintained in accordance with approved continuing airworthiness provisions.
 - Ensure airworthiness related materiel risk process exists (para 12)
- All work associated with the airworthiness process shall be performed by authorized individuals employing approved processes within organizations accredited/approved by a NATO **Recognized Airworthiness Authority (para 10)**

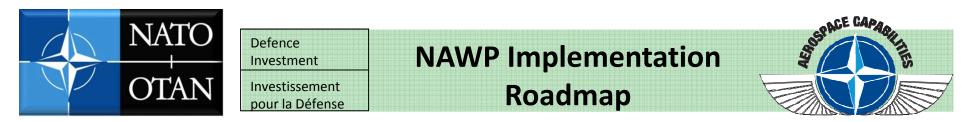


• **NAWP**: approved by the NAC on 18 JUL 2013

SThe NAE shall provide an Implementation Plan (IP) to be approved by the NAC before the policy takes effect

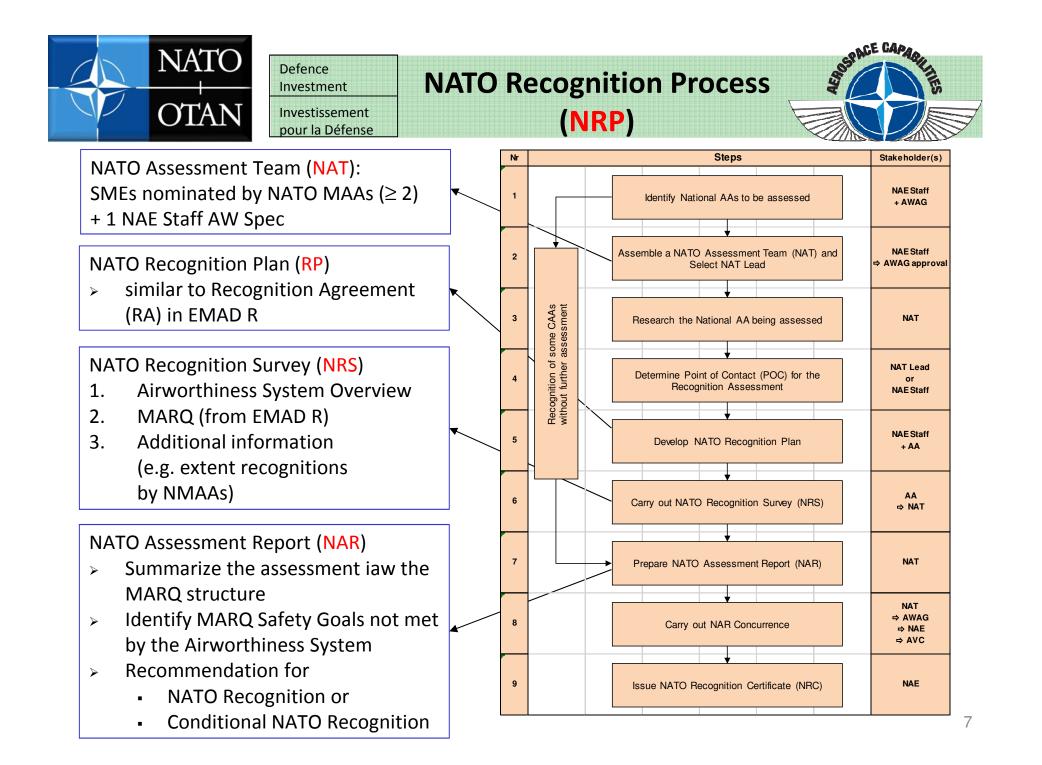
NAWP IP: approved by the NAC on 01 JUL 2016





<u>NAWP IP</u> ⇒ develop and implement a NATO Recognition Process (NRP)

- Draft NRP approved by AVC on 12 APR 2017
 - > experimental phase: validation against a Pilot Project
- NRP approved by AVC on 20 DEC 2017
 - Purpose: launch NRP with MAAs
- Refined NRP pending AWAG approval then to be submitted to AVC approval for late 2018
 - > Together with NRP Manual comprising:
 - Guidance for the NRP
 - Templates
 - > NATO Assessment Team (NAT) nomination package + Guidance
 - > NATO Recognition Plan (RP)
 - NATO Assessment Report (NAR)
 - NATO Recognition Certificate (NRC)





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Pilot Project



 Draft NRP: successfully tested against the assessment of MAA-NLD () in 2017



- AWAG Recommendation: NATO Recognition
- AVC approval: 10 JAN 2018
- The NAE delivered the NRC to the Director of MAA-NLD during the AVC HoD meeting in NL on 17 MAY 2018



- Feedback from the Director of MAA-NLD:
 - > positive experience from the NRP for both parties
 - > professionalism of the NAT
 - encouraged the other MAAs to volunteer for the NRP and perhaps provide NAT nominees



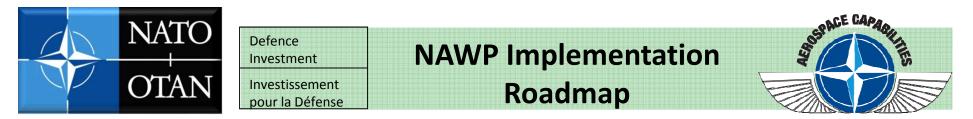
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NAWP Implementation Roadmap



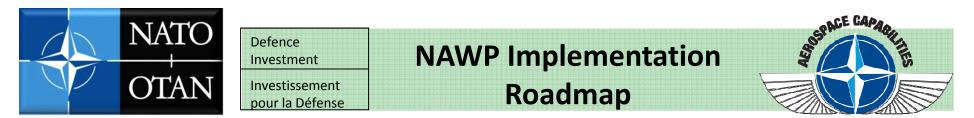
NAWP IP ⇒ develop and maintain an Action Plan (AP)

	Deliverable	Achievement	Status
Α.	Deliver an AP on an annual basis, to detail the different steps, timelines and milestones to achieve the objectives of the NAWP	 Initial AP: 12 APR 2017 2018 update: 09 MAY 2018 	\checkmark
Β.	Approval of AWAG Chairman and Vice-Chairman nominees	Approval: 11 NOV 2016	\checkmark
C.	Request AWAG members to nominate SMEs as potential members of NATO Assessment Teams (NATs)	 2017: 9 Nominees 2018: 17 Nominees	\checkmark
D.	Complete the NRP with the supporting templates for: - NAT member selection, - NATO Recognition Plan (RP), - NATO Recognition Survey (NRS), - NATO Assessment Report (NAR) and - NATO Recognition Certificate (NRC) ⇒ Appendices of the NRP Manual	 REV 3 of draft NRP Manual published on 31 AUG 2018, pending AWAG approval 	✓

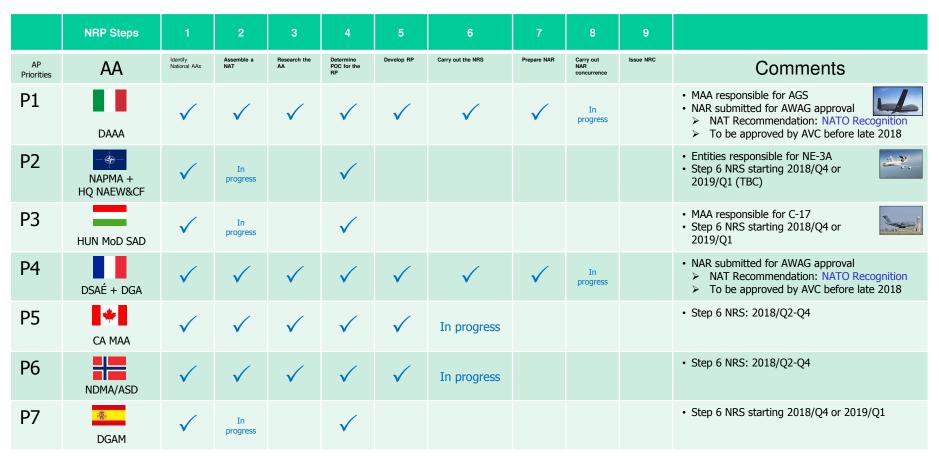


NAWP IP ⇒ develop and maintain an Action Plan (AP)

	Deliverable	Achievement	Status
E.	Launch Recognition of MAAs responsible for NATO Affiliated assets	 Launched with IT DAAA in FEB 2018 	\checkmark
F.	Launch Recognition of MAAs responsible for NATO Allies assets	 Launched experimentally with MAA-NLD in JAN 2017 Launched with FR DSAÉ and DGA ORA in DEC 2017 	✓
G.	Launch Recognition of Partner (and non-Partner) Nations	Not started yet	
Η.	Launch Recognition of other States	 Not started yet 	
I.	Recognition of AAs (issuance of a NRC to an AA as soon as NRP is completed)	 First NRC (NL) issued on 10 JAN 2018 	1



Status of the 2018 update of the Action Plan:



d Identify potential MAAs for the 2019 update of the Action Plan



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Optimization of Recognition Processes



Some types of recognition:

US NAC	EUMAAC WS	ΝΑΤΟ
Tier 1 Full compliance with the provisions of DOD Directive 5030.61, DoD Airworthiness Policy, regarding operations on foreign aircraft	Step 1 General Recognition between NMAAs	NRP Full compliance with the NAWP
Tier 2 Product-specific and facility/organization-specific maintenance and overhaul (M&O) recognition	Step 2 Project related recognition (for the purpose of reusing artefacts)	
Tier 3 Product-specific design approval recognition		

There is room for optimization of the various recognition activities with MAAs at first level. It is essential to cope with scarce expert resources.





Some proposals:

- Proposal 1: instead of several on-site visits, the assessed MAA could invite (where applicable) US MAAs, EUMAAC MAAs and NATO to a joint on-site visit common for Tier 1/Step 1/NRP
 - > Additional days or separate visit for Tier 2 & 3/Step 2
- Proposal 2: standardized recognition report in English
 - Part 1: applicable to Tier 1/Step 1/NRP
 NATO Assessment Report (NAR) template is an option
 - Part 2: applicable to Tier 2 & 3/Step 2
- Proposal 3: in case of joint on-site visit, SMEs participating both as National SMEs and as NAT Members



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Q&A



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