



Ministerie van Defensie

Management of the Multinational Multi Role Tanker Transport Fleet under MAA-NLD oversight

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18 Oct 2023

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Introduction



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Motto

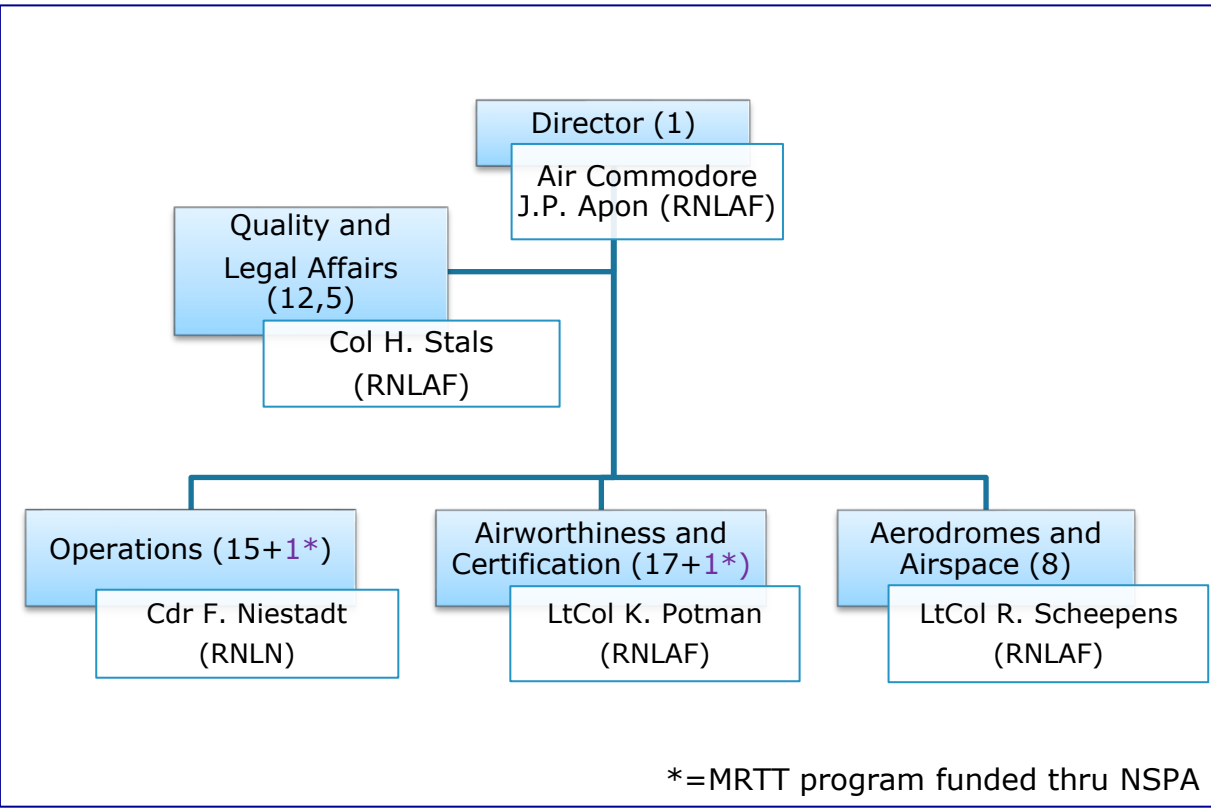
Mission First, Safety always

'We contribute to the mission effectiveness with safety consciousness always as a starting point'





Introduction Military Aviation Authority-NLD



55,5 FTE plus:

- Shared services (HRM, Fin & Control a.o.)
- Contracted ADSE & NLR expertise for (certification, accreditation, research, ANSP policy a.o.)
- Bureau Veritas for Non MAS (contractors) organizational approvals (accreditation)
- ATM-representative (NATO Brussels)
- ATM-representative (EDA Brussels)

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Overview / Background MMF program



Pooling & Sharing Initiative
Air-to-Air Refueling (AAR) Pillar
Increase European AAR Capability



Program Management
life cycle management and
acquisition of 10th Aircraft



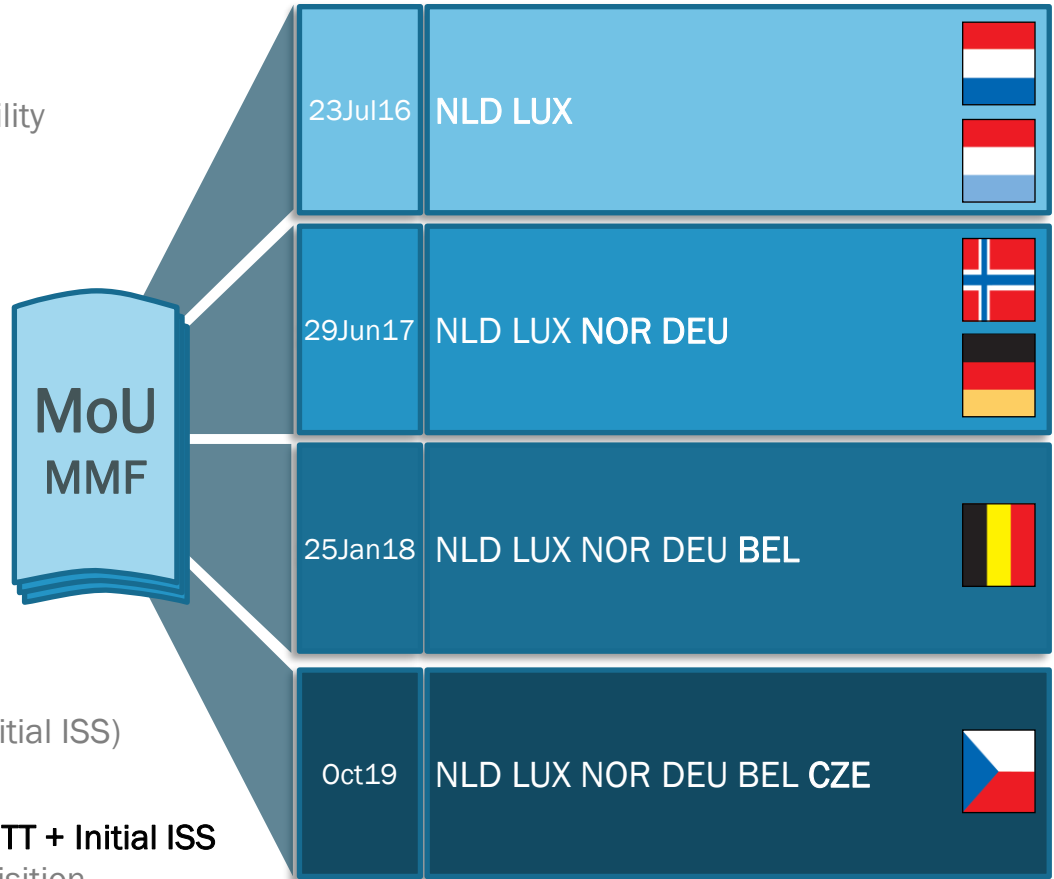
NLD Registered and MAA-NLD oversight



Delegated Contract Manager
Acquisition of 1-9th Aircraft
+ 2-year initial in-service support (Initial ISS)



2 -> 10 A330 MRTT + Initial ISS
Sole source acquisition



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Capabilities



The Airbus A330 MRTT will provide to the MMF Nations the capability for:

1. Transport of passengers and cargo
2. Air-to-Air refuelling (AAR)
3. Aeromedical Evacuations (MEDEVAC)
4. Self-protection



Operating bases



MOB

EHV



FOB+

CGN



370

positions



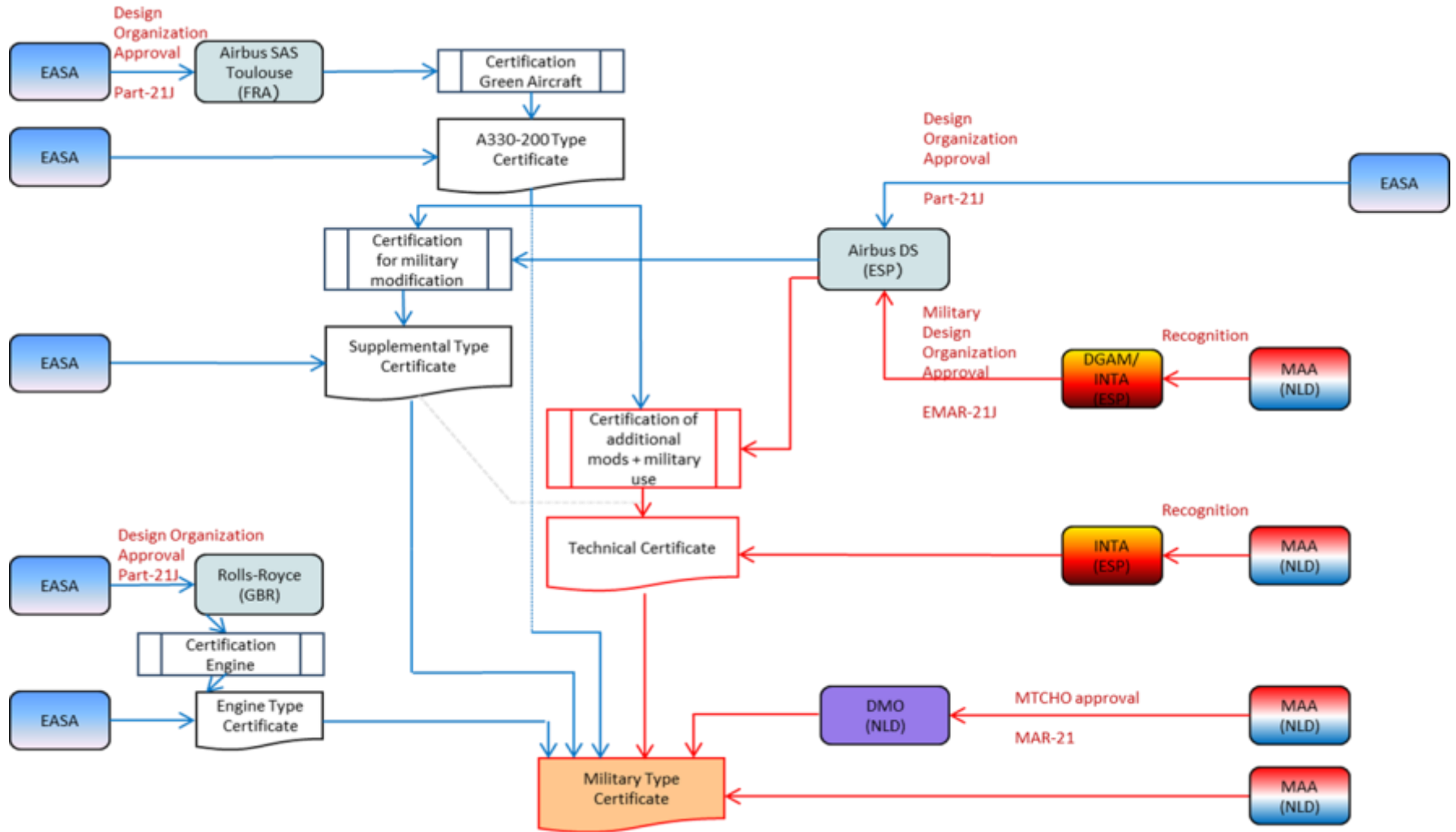
Eindhoven 250

Cologne 120

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Certification roadmap MTC



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MTC issued MAA-NLD



NEderland
The Netherlands

MINISTERIE VAN DEFENSIE
Ministry of Defence

MILITAIRE LUCHTVAART AUTORITEIT
Military Aviation Authority Netherlands

MILITAIR TYPE CERTIFICAAT
Military Type Certificate

No. 023
Issue 1

Ref.: Regeling kenmerken, registratie en luchtwaardigheid militaire vliegtuigen, regeling van 8 oktober 2001, artikel 11
Regulation markings, registration and airworthiness military aircraft, Regulation of 8 October 2001, article 11

Militair Type Certificaat houder <i>Military Type Certificate holder</i>	Ministry of Defence Defence Materiel Organisation, Aviation Systems Division Herculeslaan 1 3584 AB Utrecht, The Netherlands
Fabrikant luchtvaartuig <i>Manufacturer aircraft</i>	Airbus Defence & Space Avenida De Aragon 404 28022 Madrid, Spain
Fabrikant motor <i>Manufacturer engine</i>	Rolls-Royce Deutschland Ltd & Co KG Eschenweg 11 Dahlewitz 15827 Blankenfelde-Mahlow, Germany
Type en model luchtvaartuig <i>Type and model aircraft</i>	A330 MRTT, model A330 MMF
Type and model motor <i>Type and model engine</i>	RB211 Trent 700, model RB211 Trent 772B-60
Uitgifte op grond van onderzoeksrapport nr. <i>Issue based on investigation report no.</i>	TC A330-243 EASA.A.004 Issue 1 d.d. 17 mei 2004 dated May 17, 2004
	TC Rolls-Royce RB211 Trent 772B-60 EASA.E.042 Issue 05 d.d. 21 februari 2019 dated February 21, 2019
	Supplemental Type Certificate EASA 10069256 d.d. 17 september 2019 dated September 17, 2019
	INTA Technical Certificate 005/10 Rev. 10 d.d. 29 november 2019 dated November 29, 2019
	Certification Report of the A330 MMF Aircraft d.d. 27 maart 2020 dated March 27, 2020

Hierbij wordt verklaard dat het type ontwerp van het luchtvaartuig genoemd in dit Certificaat met de operationele beperkingen en voorwaarden zoals omschreven in het Military Type Certificate Data Sheet voldoet aan de van toepassing zijnde luchtwaardigheidseisen van het Ministerie van Defensie.

It is herewith certified that the type design of the aircraft mentioned in this Certificate together with the operating limitations and conditions as described in the Military Type Certificate Data Sheet meets the applicable airworthiness requirements of the Ministry of Defence.

De Minister van Defensie,
voor deze,
De Directeur Militaire Luchtvaart Autoriteit,
For the Minister for Defence,
The Director Military Aviation Authority Netherlands,

J.P. Apon
Commodore
Commodore

Date:
2020.07.10 17:33:01
+02'00'

Plaats en datum van afgifte
Place and date of issue

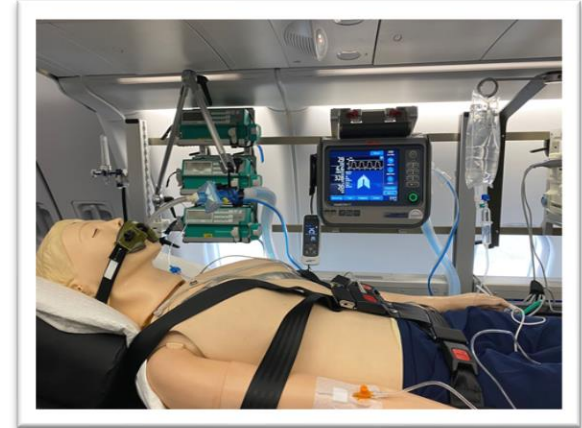
Den Haag, 10 juli 2020
The Hague, July 10, 2020



Medical Equipment



- Medical Equipment
 - Certified by MTCHO thru MAA-NLD:
 - Integration of medical equipment in AC
 - Electro Magnetic Interference
 - Emergency Evacuation
 - Head Strike
 -
- MSTC issued



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Air to Air Refueling



AAR Clearances need the cooperation between the national authorities of the Tanker and Receiver nation amongst others.

Clearances issued:

- Boom:
 - F16, F-22, F-35A, B1B
- Hose and Drogue:
 - Harrier, Eurofighter, Tornado, F-18, F35B/C

Currently in certification process:

- Grippen C/D, C-17, E-3A AWACS, Rafale and Mirage 2000, ...



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Approvals issued by MAA-NLD (within NLD-MAS) relevant to MMF:

- Air Systems (LVS):
 - MTCHO A330 MMF within scope (MAR-21)
- MMU:
 - Military Air Operator Certificate (MAR-OPS)
 - Maintenance Management (NLD-MAR-M)
 - Line Maintenance (NLD-MAR-145)





Licenses issued by MAA-NLD relevant to MMF:

- Pilots (NLD-MAR-FCL)
- Maintenance Personnel (NLD-MAR-66)





Recognitions by and/or with MAA-NLD relevant to MMF:

- EASA
- Spanish MAA DiGAM (DGAM & INTA)
- German MAA (LufABw)
- Australian MAA (DASA)
- French MAA (DSAE & DGA)
- MAA-UK
- USAF TAA ARCA
- ...





- 21 Design: ADS (INTA obo MAA-NLD)
- 21 Production: ADS (DGAM obo MAA-NLD)

- 145: ADS S.A.U. Services (DGAM obo MAA-NLD)

- 147: ADS Int. Training Centre (DGAM obo MAA-NLD)

- FCL: Airbus DS Int. Training Centre



Take aways



- MMF is multinational as is the oversight of it
- Good cooperation brought us this far
- Providing room for growth in the program and contract facilitated nations to join and increase #AC
- Harmonization of regulations is key for the nations and industry
- A nation that is in the lead for one program can lift on other programs where other nations have the lead





Questions



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