

NATO use of Civil Standards

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International Standardization Workshop
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Agenda

- **NATO Policy on use of non-NATO Standards**
- **Benefit of Adopting non-NATO Standards**
- **AAP-03 (K) Chapter 3 – Civil & Defence Standards**
- **Standard-Related Document (SRD) – 003**
- **UK ‘internal’ process for validating SP’s**
- **Summary**

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NATO Policy on use of non-NATO Standards

Extract from 'NATO Policy for Standardization'
Document PO(2016)0315 - Para 7.5.2

NATO shall adopt and refer to suitable non-NATO standards (civil standards and national defence standards) in lieu of developing NATO standardization documents to the maximum extent.

NATO will fully exploit mature national defence standards.

NATO shall only develop a standard where no suitable non-NATO standard exists.

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Benefit of Adopting non-NATO Standards

- **Non-NATO standards shall be selected for NATO's use based on their ability to meet in full, or in part, the NATO requirement. These Standards should have broad acceptance, accessibility and technical excellence.**
- **In general, using civil standards is preferred to using national defence standards.**
- **Using civil standards brings broader expertise, technology and best practices of industry to the solution.**
- **Compared to developing NATO standards, this avoids duplication of effort, reduces NATO's workload, broadens interoperability and can reduce procurement costs.**

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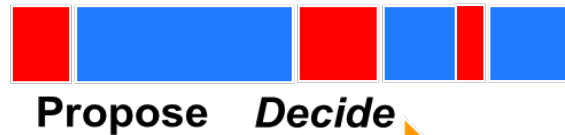


Benefit of Adopting non-NATO Standards

IN NATO ~ 21 – 62 months; National SMEs do most work



ADOPTING: ~ 14 – 20 months; work is more distributed



Adopt a Standard

Savings!!!



... into NATO

IN NATO ~ 21 – 62 months; National SMEs do most work



without delays, break of silences, extensions, etc

ADOPTING: ~ 14 – 20 months; work is more distributed



Propose Decide

Adopt a Standard



Ratify Promulgate

... into NATO

“It is estimated that savings of between 10 and 50% could be made through a more intensive use of civil standards in the military sector.”

The Civil Standards Campaign

Goal: Enhancing NATO's use of civil standards and civil-military approaches to standardization.

Objectives:

- **Identify the impact of civil standards;**
- **Provide Education and Training;**
- **Foster relationships with civil Standards Developing Organisations;**
- **Update Policy and Procedures;**
- **Encourage use of Civil Standards;**

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The Civil Standards Campaign

civil standard / norme civile

CIV-STD

“A standard published by a civil standards developing organization and made available to the public.”

norme civile / civil standard

“Norme publiée par une organisation d'élaboration de normes et mise à la disposition du public.”

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The Civil Standards Campaign

The US NSDD research project was commissioned by Mr. Greg Saunders US DoD Standardization Agency Director and SMG Chairman, to help understand:

- **How many civil standards are NATO using?**
- **Where are they used?**
- **How are they referenced, and by whom?**
- **Are there Intellectual Property issues?**
- **In what domains are civil standards used?**

Result is a multi-tabbed Excel Spreadsheet

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US Report – NSDD Research

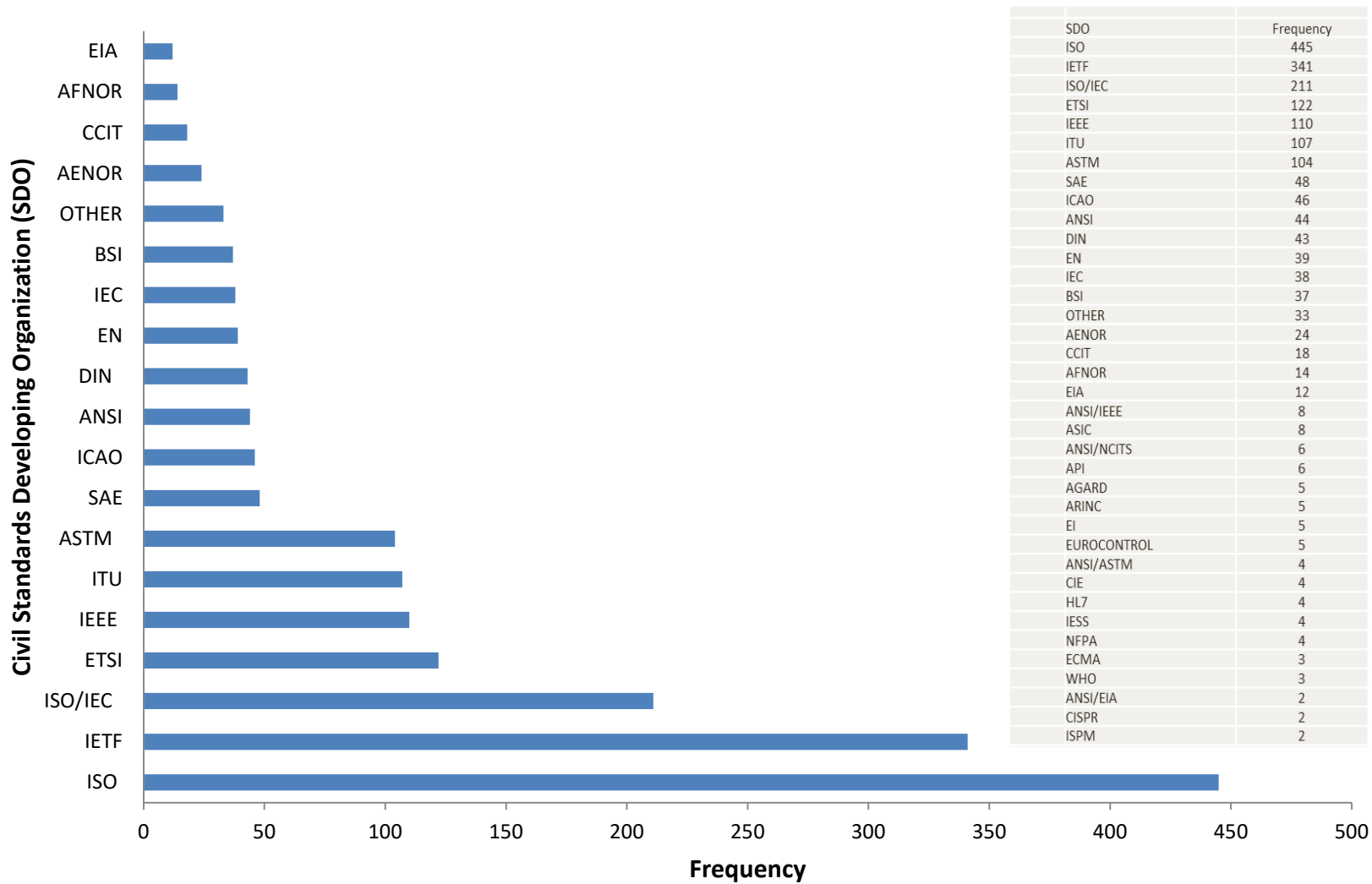
- Dashboard
- SDO Terminology
- Terminology
- Civil Standards Sort Order
- Standards by TA/DTA
- ADC
- ATMC
- AC224
- AC 225
- AC323
- AC326
- AC327
- C3B
- CS
- COMEDS
- LC
- MCASB
- MCJSB
- MCLSB
- MCMSB
- MEWAC
- PC

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US Report – NSDD Research

Most Frequently Used Civil Standards by SDO



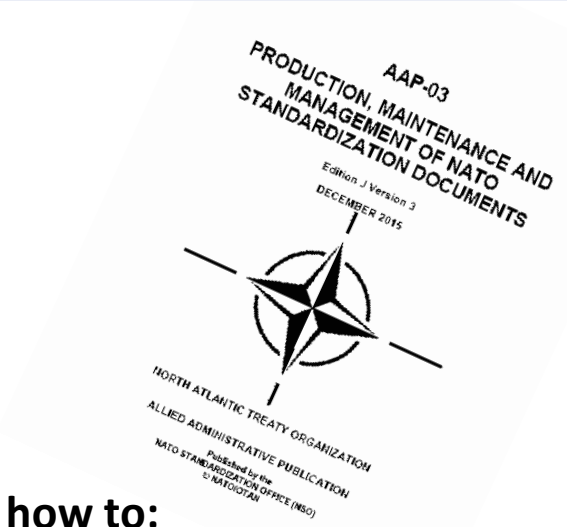
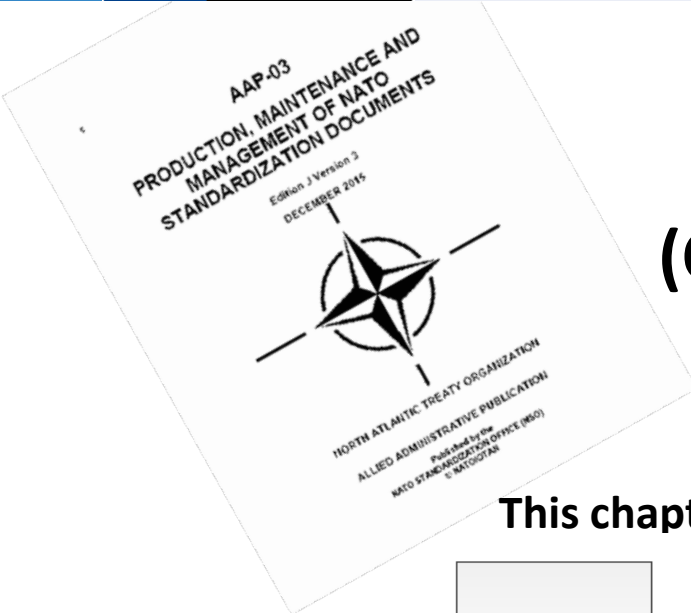
US Report – NSDD Research

Civil Standards Usage by Tasking Authority (TA)				
Tasking Authority	Abbreviation	Promulgated Documents	Promulgated Documents With Referenced Civil Standards (n)	# Referenced Civil Standards
Conference of National Armaments Directors (CNAD)	CNAD	413	418	418
Military Committee (MC)	MC	517	101	551
Consultation Command and Control Board (C3B)	C3B	141	51	841
Air Traffic Management Committee (ATMC)	ATMC	42	13	28
Committee of the Chiefs of Military Medical Services (COMEDS)	COMEDS	73	9	43
Pipeline Committee (PC)	PC	43	5	49
Committee for Standardization (CS)	CS	4	2	8
Air Defence Committee (ADC)	ADC	0	0	0
Logistics Committee (LC)	LC	6	0	0

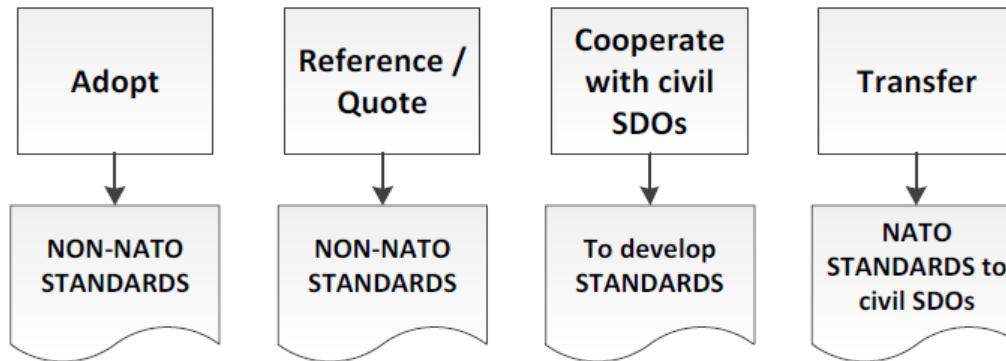
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Chapter 3 Non-NATO (Civil and Defence) Standards



This chapter provides information on how to:



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Identification of Standardization Solution

Standardization Proposal (SP) Form – Annex A, part 13

Standardization Inquiry (SI) Form – Annex B, part 14

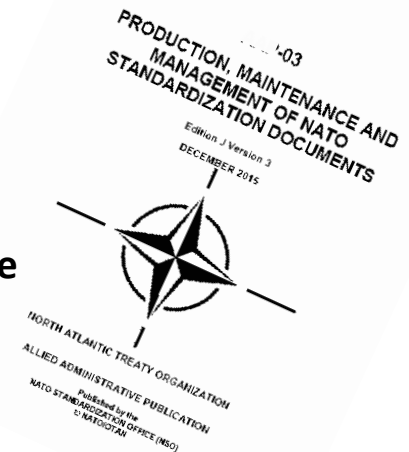
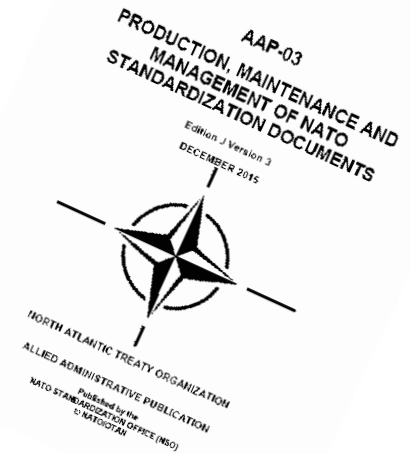
Standardization Task (ST) Form – Annex C, part 12

Modification Proposal Form – Annex G, part 6

Revision Task Form (RT) – Annex H, part 11

(for Major Modification)

Non-NATO standardization solutions: “if known, indicate existing suitable non-NATO standardization solutions that should be adopted by NATO or interested Civil Standard Developing organizations for co-development.”

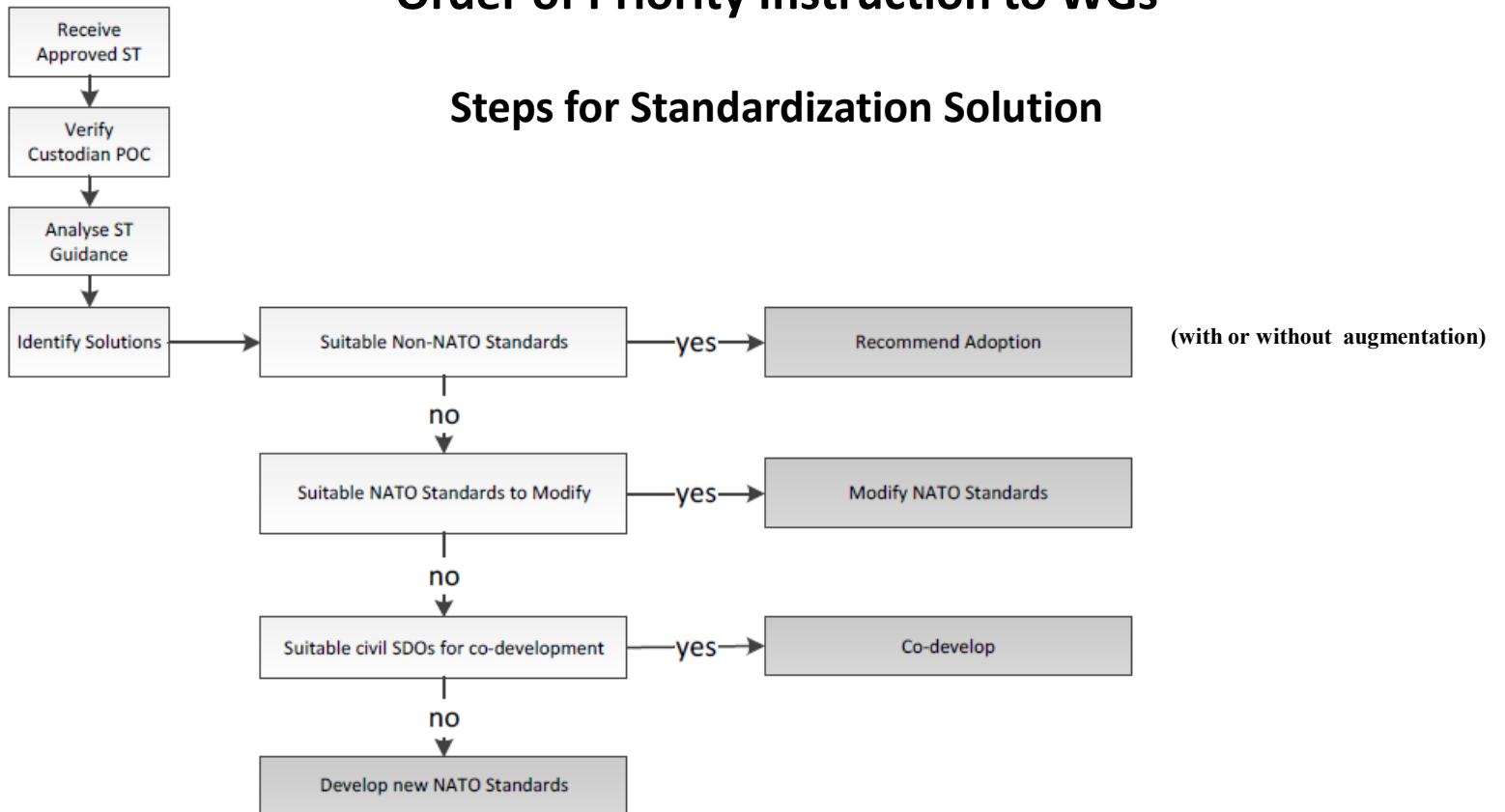


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Order of Priority Instruction to WGs

Steps for Standardization Solution



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Civil Standards Developing Organizations who have signed Technical Cooperation Agreement's with NATO

- AFNOR French Association for Standardization: <http://www.afnor.org/>
- ANSI American National Standards Institute: <http://ansi.org/>
- ASD-STAN European industrial Standardization Organization for AeroSpace & Defence: <http://www.asd-stan.org/>
- ASTM International American Society for Testing and Materials: <http://www.astm.org>
- BSI British Standards Institutions: <http://www.bsigroup.com>
- CEN European Committee for Standardization: <https://www.cen.eu>
- CENELEC European Committee for Electrotechnical Standardization: <http://www.cenelec.eu>
- DIN German Institute for Standardization: <http://www.din.de>
- ETSI European Telecommunications Standards Institute: <http://www.etsi.org>
- GS1 GS1 UK: <https://www.gs1uk.org>
- IEC International Electrotechnical Commission: <http://www.iec.ch>
- IEEE Institute of Electrical and Electronics Engineers, Incorporated: <http://www.ieee.org>
- ISO International Organization for Standardization: <http://www.iso.org>
- SAE International Society of Automotive Engineers: <http://www.sae.org>
- TSE Turkish Standards Institution: <http://www.tse.org.tr/en>

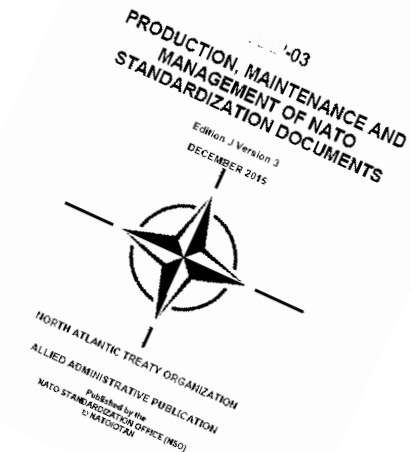
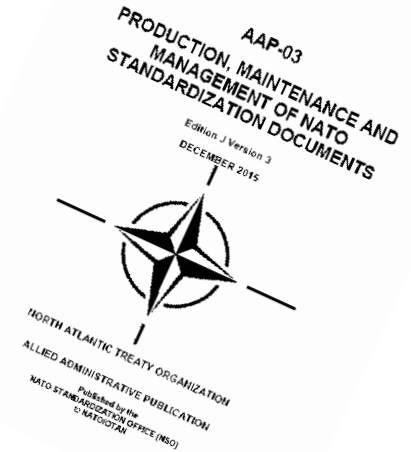
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Referencing of Civil and Defence Standards convention

Normative references - are those directly referenced in the document as part of the requirement

Informative references - are those listed for information purposes only and are not part of any requirement (background information).



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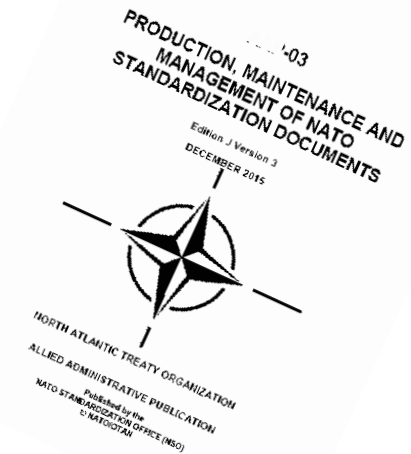
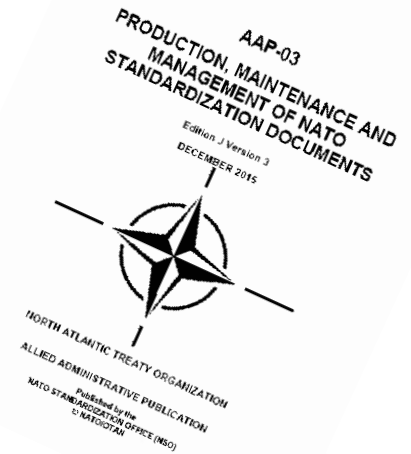
SRD-003 Facilitating the Development and use of Civil Standards

Definition

A standard-related document (SRD) is a NATO standardization document that facilitates the understanding implementation of one or more Allied standards

SRD-003 will be released simultaneously with AAP-03(K) on the 1st July 2018

The SRD was drafted by the Civil Standards Team under direction of the SMG.



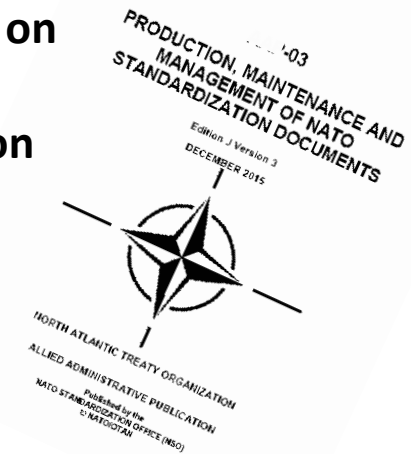
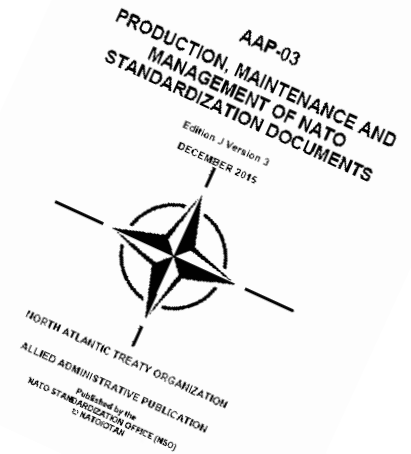
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Standard-Related Document – 003

The SRD will:

- Describe the different types of civil standards and the SDOs that develop them.
- Provide information to the TA, DTA or NATO Body involved in the development, adoption and use of civil standards.
- Clarify the roles and responsibilities of the TA, DTA, and Custodians or NATO Points of Contact when they participate in SDO activities on behalf of NATO.
- Identify criteria for the transfer of an existing NATO standardization document to an SDO.



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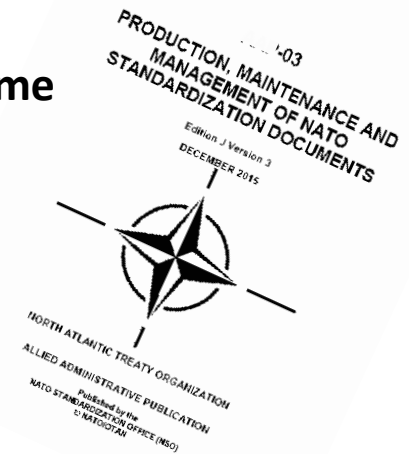
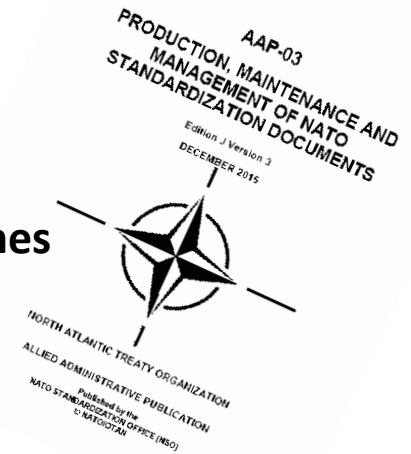


UK 'internal' process for Validating Standardization Proposals

All SP's received through the UK Delegation will:

- Be interrogated by the UK DStan team to find any potential matches on subject.
- The UK POC will be provided with this information to inform the standardization task of possible non-NATO solutions.

In addition, UK POCs on WG's or Custodians will be encouraged to supply to UK DStan all Revision Tasks (RTs) in order to conduct the same activity.



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Summary

Today we have covered.....

- **NATO Policy on use of non-NATO Standards**
- **Benefit of Adopting non-NATO Standards**
- **AAP-03(K) Chapter 3 – Civil & Defence Standards**
 - Adoption
 - Cooperation with civil SDOs
 - Transfer
 - Reference
- **Standard-Related Document (SRD) – 003**
- **UK process for validating SPs**

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Questions

