

Headquarters U.S. Air Force

Integrity - Service - Excellence

Standardization Program Update

***Requirements and References Decision Database
and a
Glimpse into the Future***



***Mr. Edward Durell, P.E.
Air Force Departmental Standardization Office***

28-October-2015

U.S. AIR FORCE

abstract: 17816



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Today's Topics

- **Standardization documents tool for use by Program Offices**
 - ***Requirements and References Decision Database (aka R2D2)***
- **Concept of meta-policy and policy-bots**



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Standardization Documents

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- **Examples: standards, specifications, handbooks**
 - **Could be military, commercial or other federal agency; examples...**
 - **MIL-STD-1530, Aircraft Structural Integrity Program (ASIP)**
 - **MIL-PRF-32058, Chock, Wheel-Track - Aviation, Adjustable Rope Type**
 - **MIL-HDBK-896, Manufacturing and Quality Program**
 - **SAE-AS6174, Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Materiel**
 - **TSO-C123a, Cockpit Voice Recorder System**
 - **Use of standardization documents, including MIL-STDs, are voluntary**
 - **Unless mandated in law or policy**



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Standardization Tool-R2D2 at-a-glance

- R2D2 = “*Requirements and References Decision Database*”
- Output -> List of standardization documents (MIL-STDs and industry standards) that can be placed on contract
 - Some mandated by AF policy; which can be ascertained using R2D2
 - Also yields useful documents, not intended to be placed on contract, but may be helpful for working level engineers
 - Documents in output are systems engineering-centric





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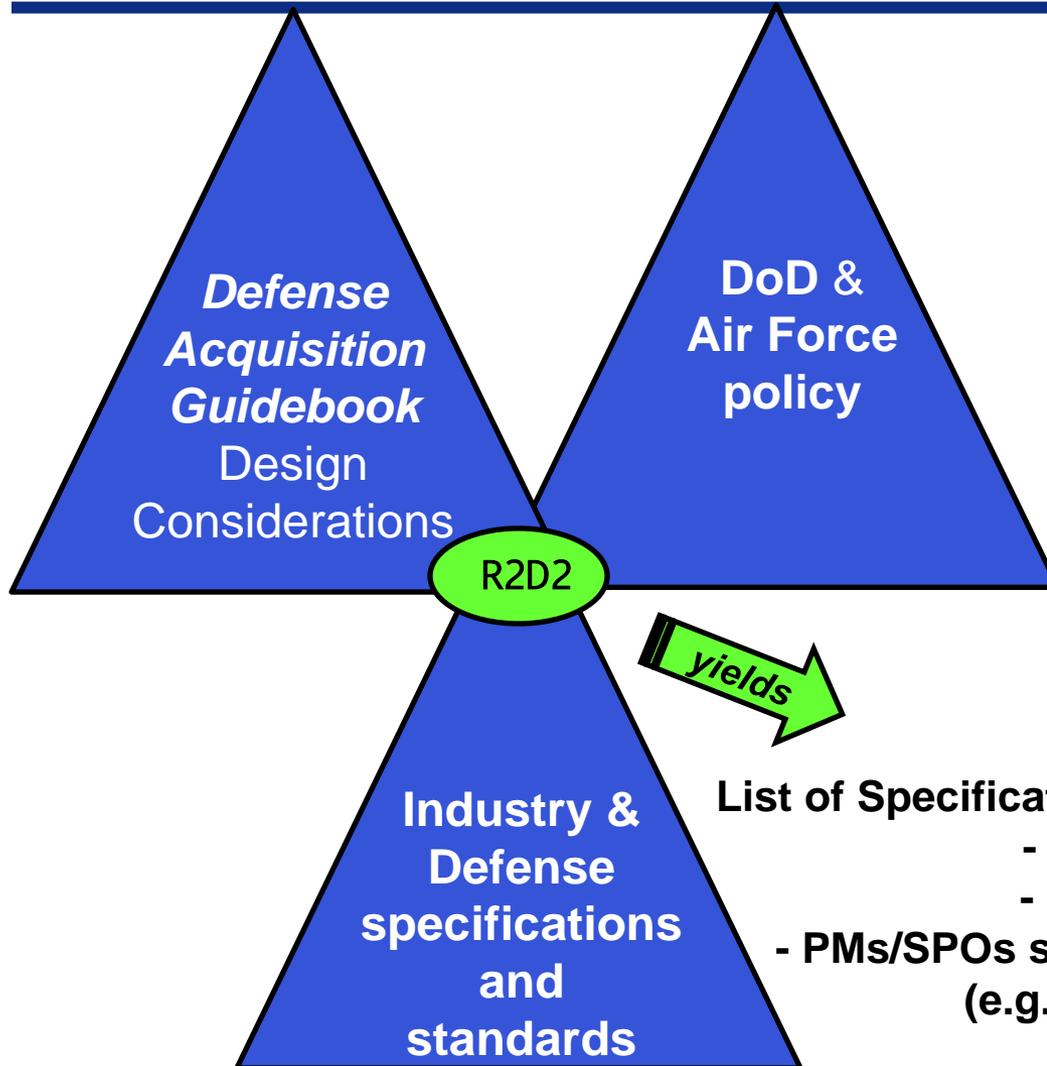
Goal:

- *Help program managers ascertain which standardization documents they should:*
 - *place on contract; and/or*
 - *use internally*



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R2D2 Pictorial View



List of Specifications, Standards and Handbooks that:

- are mandated in policy
- are referenced in policy
- PMs/SPOs should consider using if appropriate (e.g. Cockpit Voice Recorder)



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R2D2

Screen capture

R2D2 v1.1 - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Developer Acrobat

Clipboard Font Alignment Number Styles Cells Editing

List_of_Documents_upper_left return to Splash...

	A	B	C	D	E	F	
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4							
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73	5.2.1.5. Risk Management. See also: "5.4.10. Environment, Safety, and Occupational Health (ESOH)"	MIL-STD-2105, Hazard Assessment Tests for Non-Nuclear Munitions	(C) Compliance required by AF191-205, NONNUCLEAR MUNITIONS SAFETY BOARD				
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		RCC 319-10, Range Commanders Council, Flight Termination System	(C) Compliance required by AF191-217, SPACE SAFETY AND MISHAP				

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R2D2

Screen capture

Multiple search options

Search by *standardization document*

	CITATION(S) FROM POLICY DOCUMENTS LEGEND (C) - Compliance req'd by DoD or AF Policy (R) - Referenced by DoD or AF Policy (M) - Citable Defense Standardization Program (DSP) Document (i.e. MIL-STD, MIL-PRF, MIL-DTL, etc.) (G) - Citable Government (non-Military) Standard ----continued next column----	CITATION(S) FROM POLICY DOCUMENTS LEGEND -continued--- (N) - Citable Non-Gov't Standard (A) - Adopted for DoD Use (I) - Citable International Standardization Agreement document (e.g. STANAG) (F) - Citable Government (non-DSP) requirements document (X) - Non-Citable Guidance or Reference
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Search by *Design Consideration*

Search by *Policy Document*



Screen capture

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Most valuable portion of output



R2D2 Screen Capture

INFOCON: 3		UNCLASSIFIED		FPCON: Alpha
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R2D2

Multiple Search Options

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A	B	C
return to Splash... return to Dashboard... Learn More...	CITATION(S) FROM POLICY DOCUMENTS LEGEND (C) - Compliance req'd by DoD or AF Policy (R) - Referenced by DoD or AF Policy (M) - Citable Defense Standardization Program (DSP) Document (i.e. MIL-STD, MIL-PRF, MIL-DTL, etc.) (G) - Citable Government (non-Military) Standard ---continued next column---	CITATION(S) FROM POLICY DOCUMENTS LEGEND---continued--- (N) - Citable Non-Gov't Standard (A) - Adopted for DoD Use (I) - International Standardization Agreement document (e.g. STANAG) (F) - Citable Government (non-DSP) requirements document (X) - Non-Citable Guidance or Reference
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Search by **Design Consideration**

Search by **Standardization Document**

Search by **Policy Document**



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R2D2

Most Valuable Portion of Output

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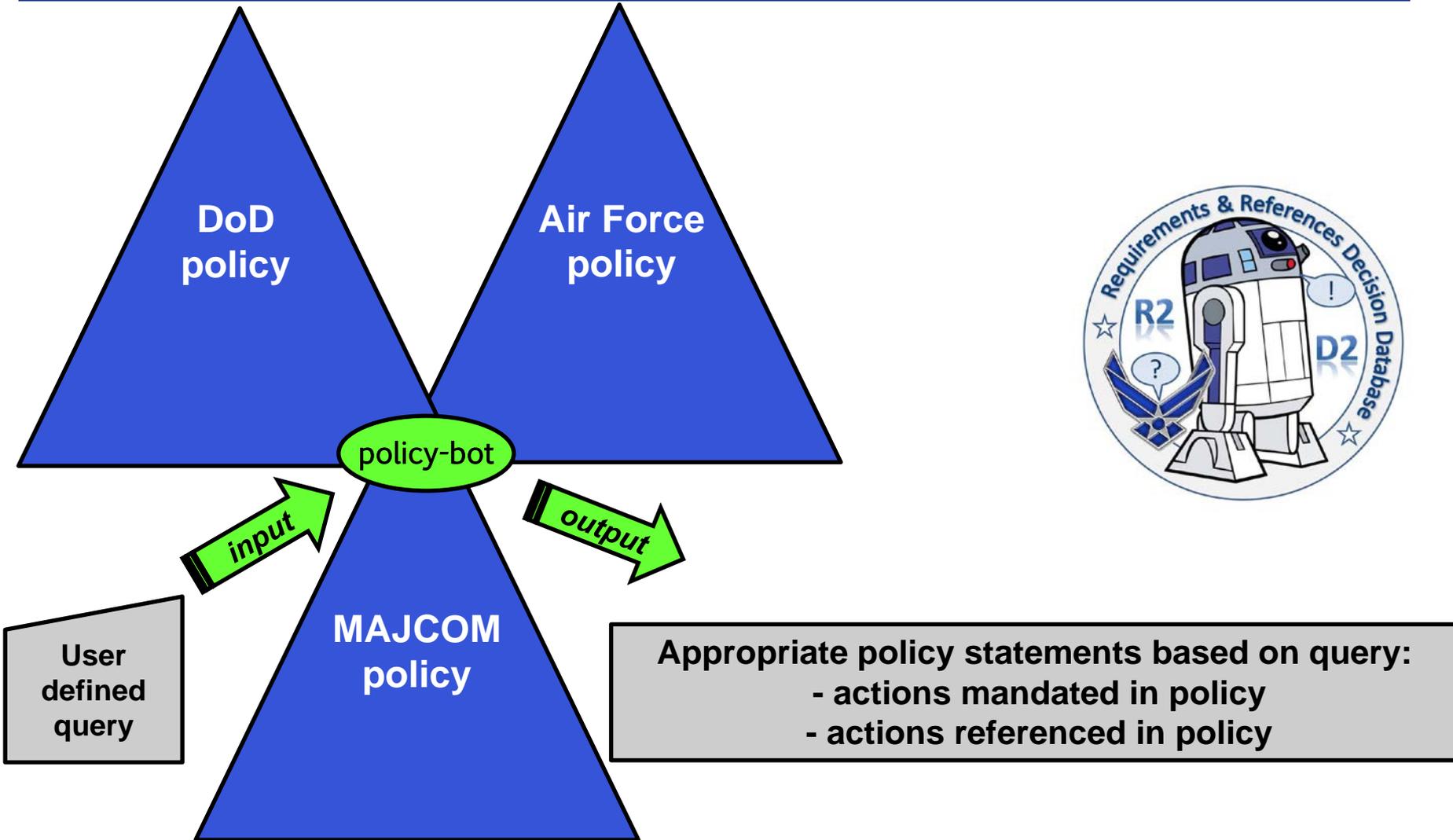
Today's Topics

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- **Concept of meta-policy and policy-bots**



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Meta-policy Pictorial View

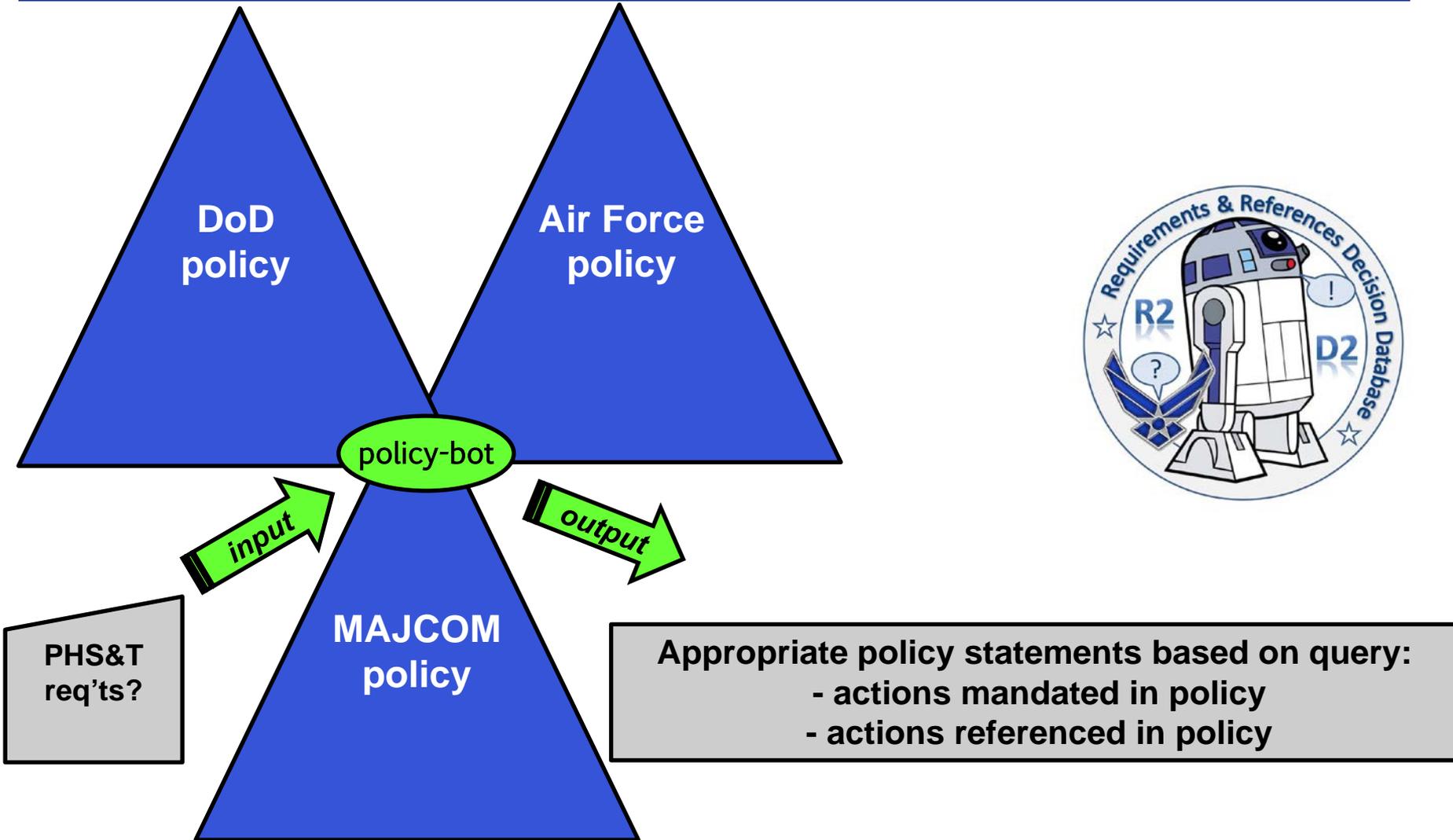




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Meta-policy

Packaging, Handling, Storage and Transportation Query

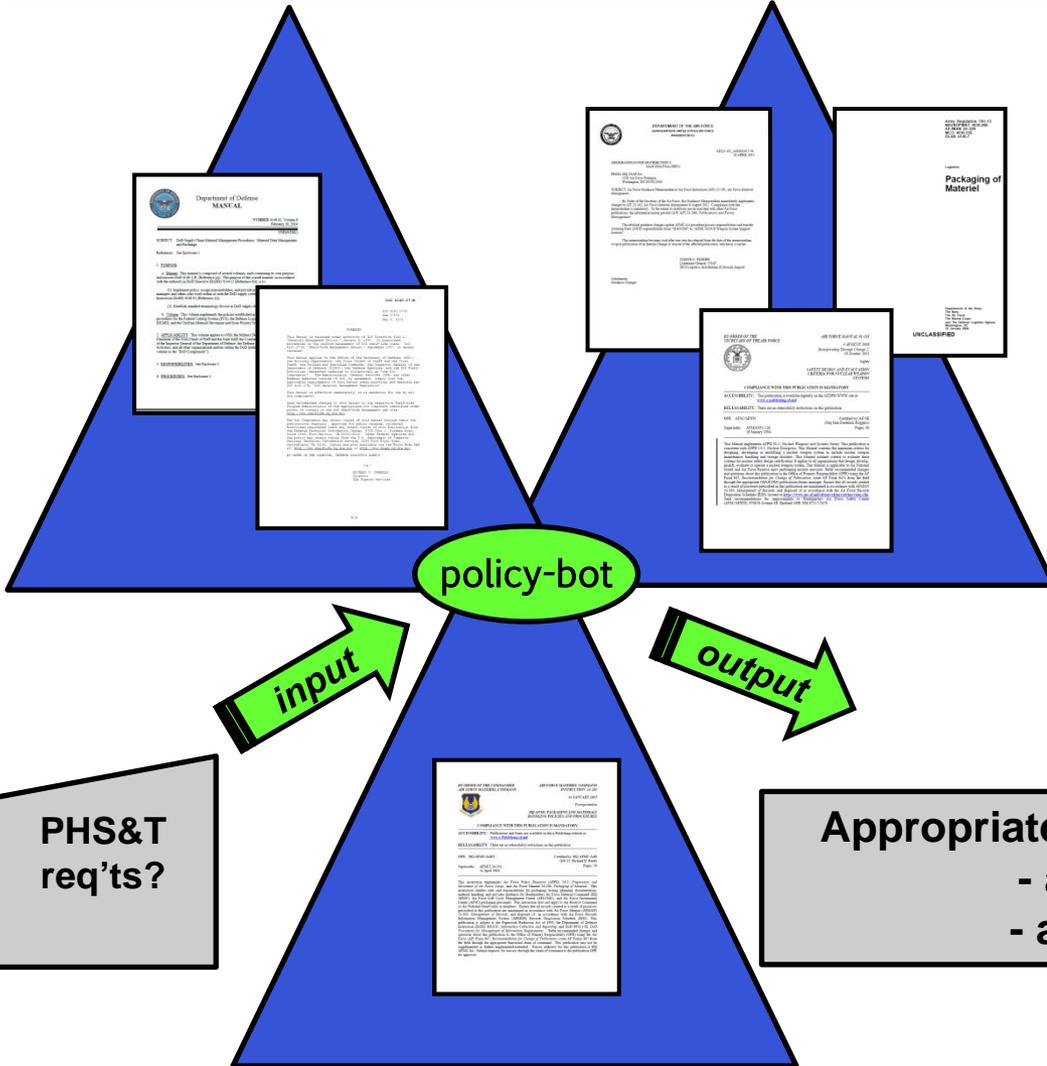




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Meta-policy

Packaging, Handling, Storage and Transportation Query



PHS&T
req'ts?

Appropriate policy statements based on query:

- actions mandated in policy
- actions referenced in policy



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POLICY-BOT Output

Query: PHS&T requirements

ID	TITLE	DOC	PARA	MANDATE?	TEXT
1	<i>DOD SUPPLY CHAIN MATERIEL MANAGEMENT PROCEDURES: MATERIEL DATA MANAGEMENT AND EXCHANGE</i>	DoDM 4140.01 V-8	Encl 3, Para 1.b. (6)(c)2	Yes	DoD Components.. Provide to the DLA Logistics Information Service item-identifying characteristics and other logistics management data including identifying characteristics about Critical Safety Items.
2	<i>SHELF-LIFE ITEM MANAGEMENT MANUAL</i>	DoD 4140.27-M	Ch 2, para 2-1	Yes	PROVISIONING. During acquisition, materiel managers ensure that provisioned support items are coded and reviewed for shelf-life considerations in accordance with...

Partial output, for illustrative purposes only



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POLICY-BOT Output

Query: PHS&T requirements

ID	TITLE	DOC	PARA	MANDATE?	TEXT
3	<i>AIR FORCE MATERIEL MANAGEMENT</i>	AFI23-101	Para 10.2.7.1.	Yes	Storage of Controlled Materiel. AF activities will store controlled materiel according to the security classification and/or security risk or pilferage controls of the item IAW...
4	<i>PACKAGING OF MATERIEL</i>	AFMAN24-206	Ch 2, para 2-1.h.	Yes	Packaging required to maintain the item from the time of acquisition throughout its anticipated life-cycle will be provided at the time of acquisition.
5	<i>SAFETY DESIGN AND EVALUATION CRITERIA FOR NUCLEAR WEAPON SYSTEMS</i>	AFMAN91-118	Para 3.18.	Yes	Design air transportable delivery vehicles and support equipment to meet the general specifications of MIL-STD-1791 ...
6	<i>HQ AFMC PACKAGING AND MATERIALS HANDLING POLICIES AND PROCEDURES</i>	AFMCI24-201	Ch 2, para 2.2.3.	Yes	Ensure Air Transportability Test Loading Agency (ATTLA) is considered for new pieces of equipment.

Partial output, for illustrative purposes only



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R2D2 Where to Find It

Find *R2D2* at *SAF/AQRE SharePoint and MilSuite*



Recent Upgrades released Summer 2015

- *general refresh – review pubs for updates*
- *include 24-series (transportation)*
- *include ratified International Standardization Agreements e.g. STANAGS*



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■ Questions?

■ Comments?