

# ***Headquarters U.S. Air Force***

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*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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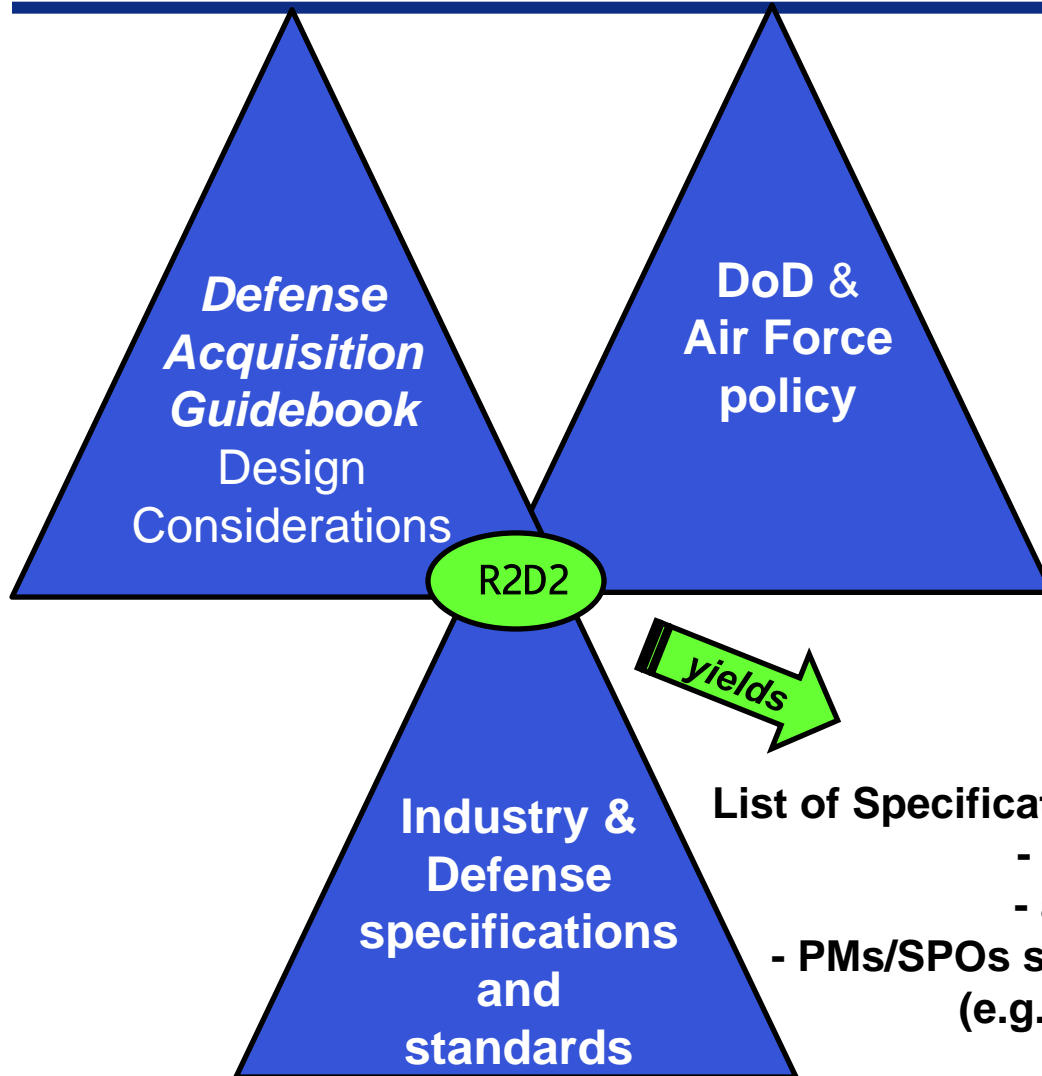
## Goal:

- *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)



# 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	
1	<a href="#">return to Splash...</a>	<b>CITATION(S) FROM POLICY DOCUMENTS LEGEND</b> (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-----  <i>What we mean when we say "Compliance required by..."</i>	<b>CITATION(S) FROM POLICY DOCUMENTS LEGEND--continued--</b> (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				
2	<a href="#">return to Dashboard...</a>						
3	<a href="#">Learn More...</a>						
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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Ready 143 of 769 records found 80%





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# R2D2

# Screen capture

Multiple search options

Search by *standardization document*

The screenshot shows an Excel spreadsheet with the following data:

	CITATION(S) FROM POLICY DOCUMENTS LEGEND	CITATION(S) FROM POLICY DOCUMENTS LEGEND - continued---
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Search by *Design Consideration*

Search by *Policy Document*



# Screen capture

	A	B	C	D	E	F
		<b>CITATION(S) FROM POLICY DOCUMENTS LEGEND</b> (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----	<b>CITATION(S) FROM POLICY DOCUMENTS LEGEND--continued--</b> (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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Most valuable portion of output



# R2D2 Screen Capture

INFOCON: 3		UNCLASSIFIED		FPCON: Alpha
R2D2 v1.2 - Microsoft Excel				
File Home Insert Page Layout Formulas Data Review View Acrobat				
A		B	C	
1	<a href="#">return to Splash...</a>	<b>CITATION(S) FROM POLICY DOCUMENTS LEGEND</b> (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---  <u>What we mean when we say "Compliance required by..."</u>	<b>CITATION(S) FROM POLICY DOCUMENTS LEGEND---continued---</b> (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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# R2D2

# Multiple Search Options

INFOCON: 3 UNCLASSIFIED FPCON: Alpha		
A	B	C
<a href="#">return to Splash...</a> <a href="#">return to Dashboard...</a> <a href="#">Learn More...</a>	<b>CITATION(S) FROM POLICY DOCUMENTS LEGEND</b> (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---	<b>CITATION(S) FROM POLICY DOCUMENTS LEGEND---continued---</b> (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

INFOCON 3 UNCLASSIFIED FPCON Alpha		
R2D2 v1.2 - Microsoft Excel		
A	B	C
<a href="#">return to Splash...</a> <a href="#">return to Dashboard...</a> <a href="#">Learn More...</a>	<b>CITATION(S) FROM POLICY DOCUMENTS LEGEND</b> (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----  <a href="#">What we mean when we say "Compliance required by..."</a>	<b>CITATION(S) FROM POLICY DOCUMENTS LEGEND---continued---</b> (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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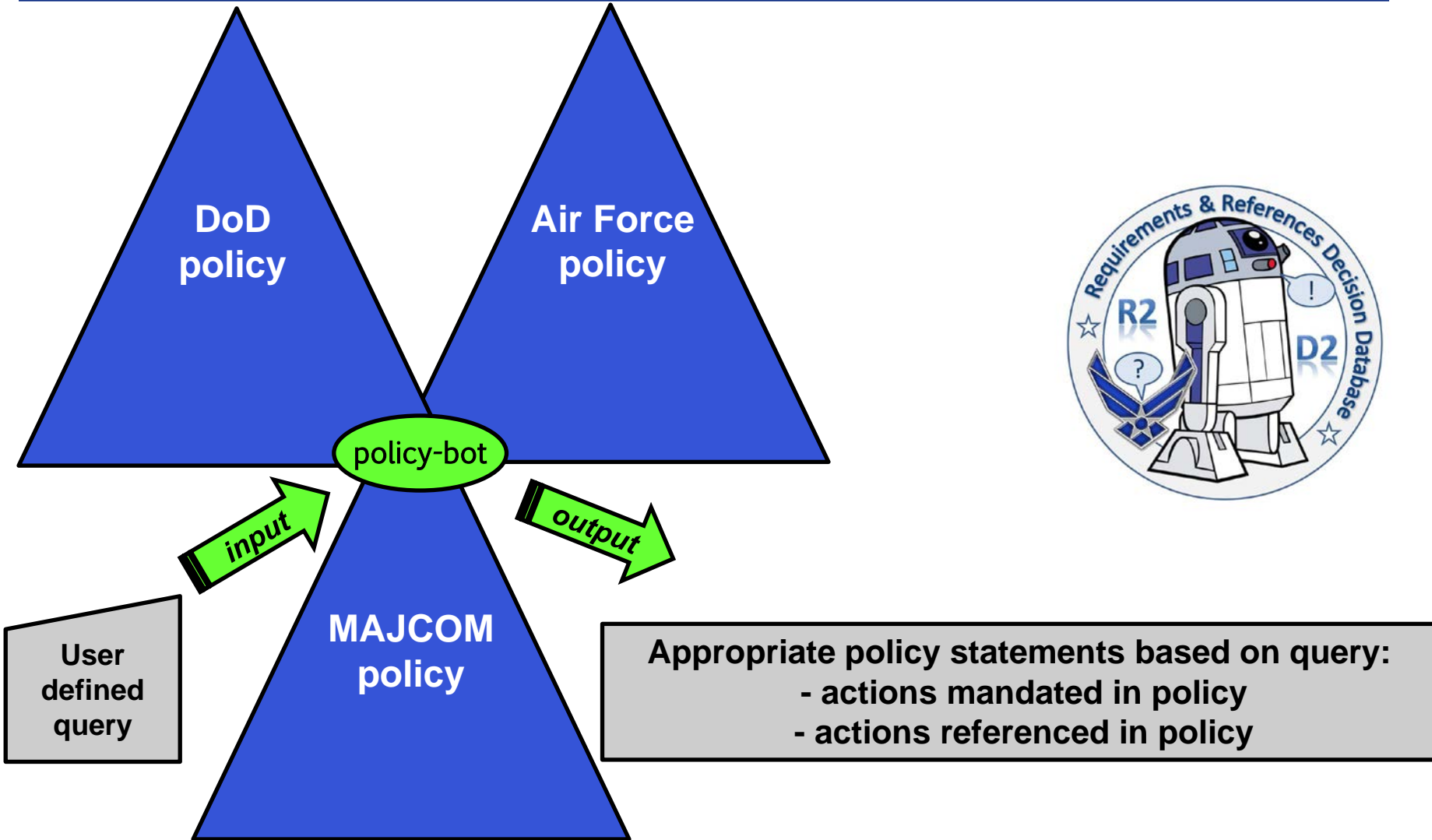
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- **Concept of meta-policy and policy-bots**



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# Meta-policy Pictorial View

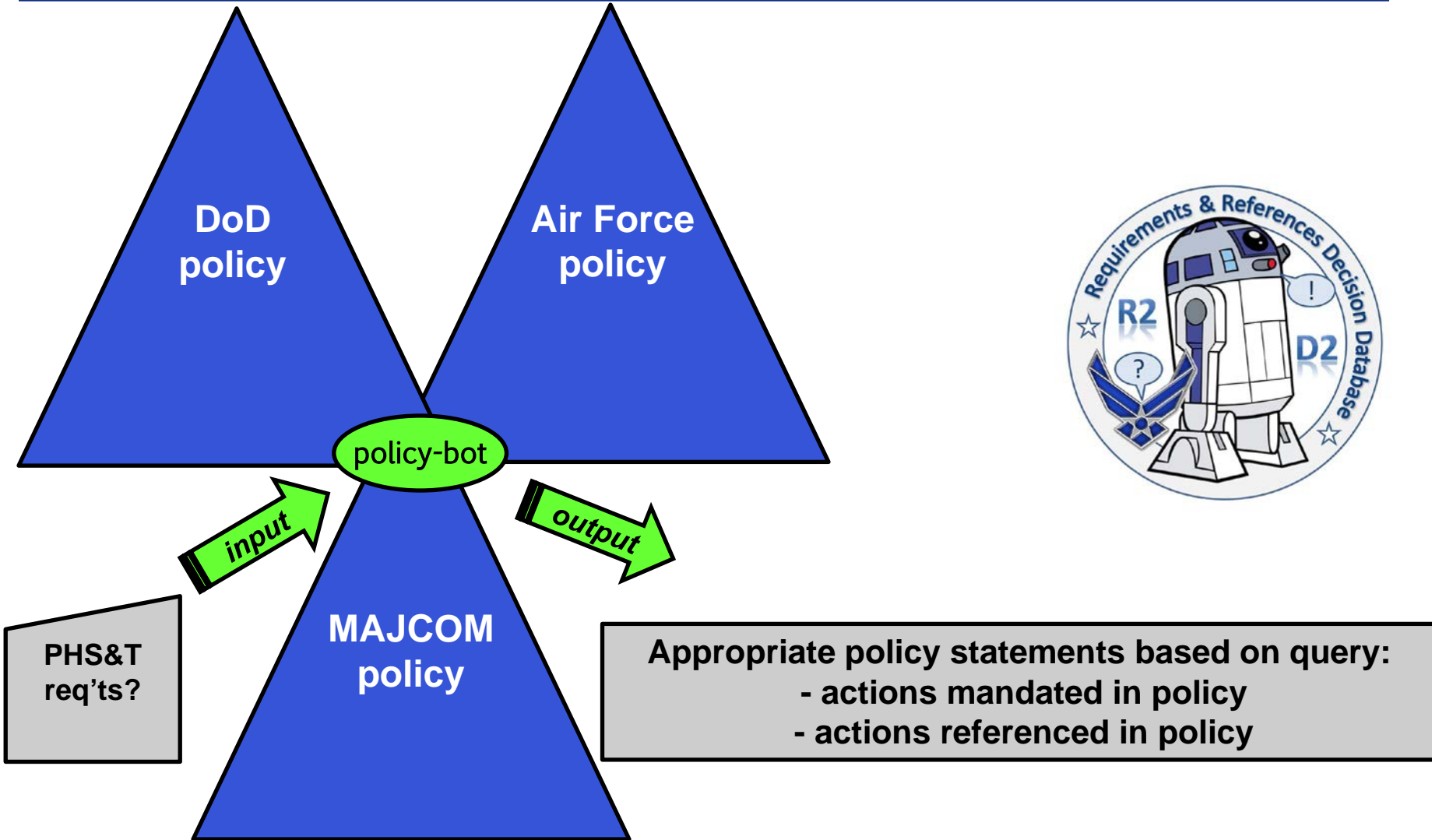




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# Meta-policy

*Packaging, Handling, Storage and Transportation Query*



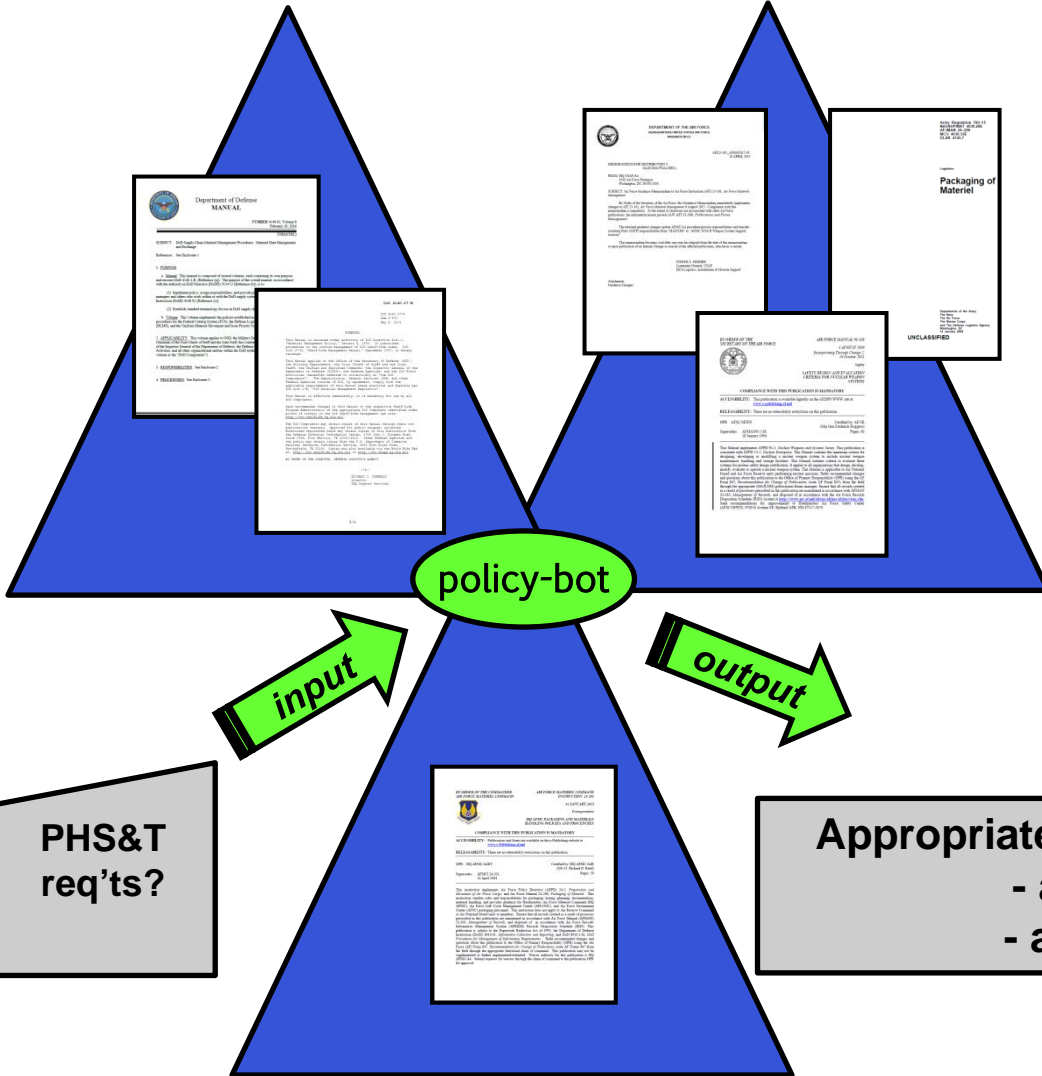




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# Meta-policy

## Packaging, Handling, Storage and Transportation Query





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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?**