



Interoperability and Supportability: The Process

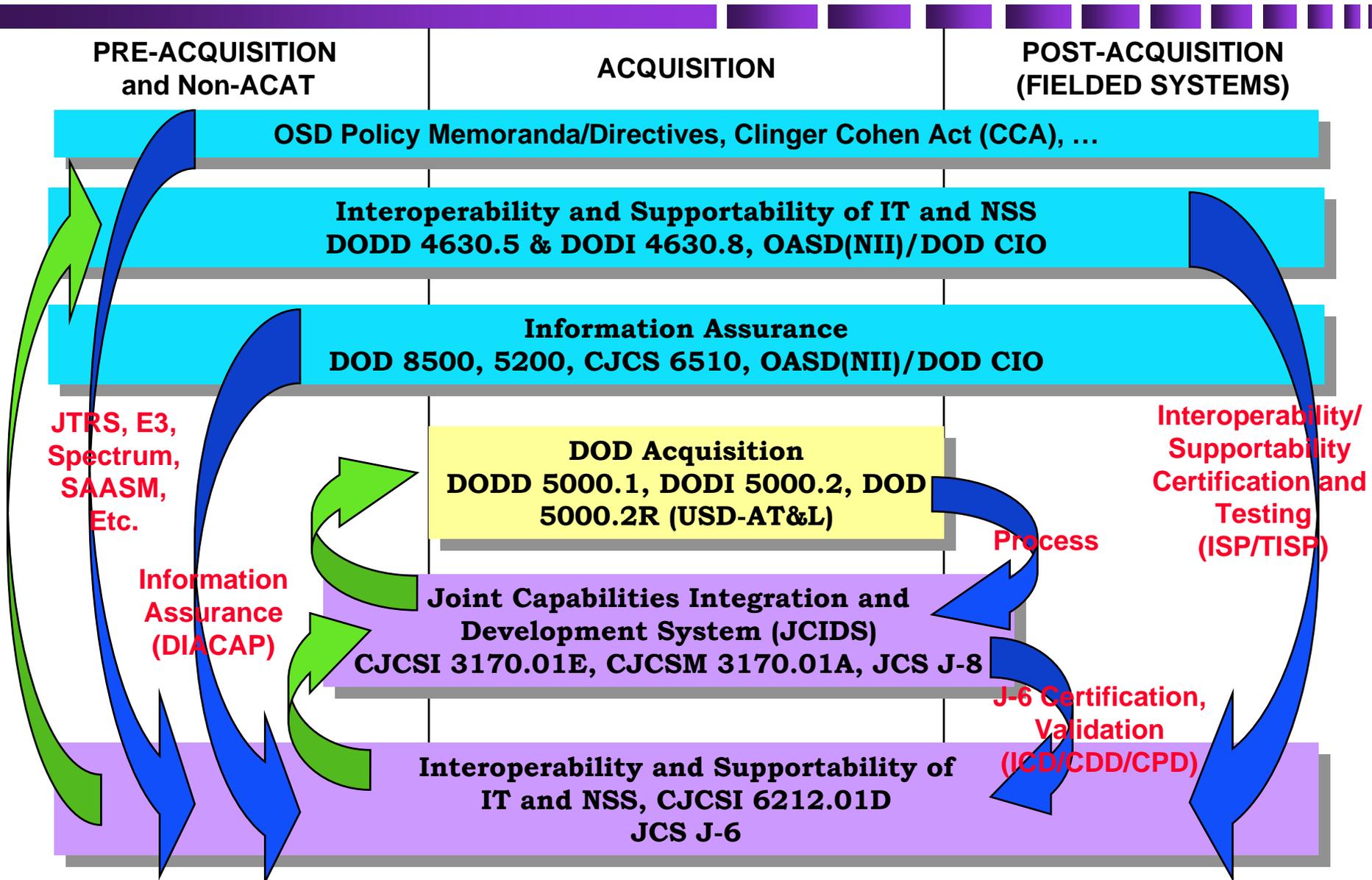
**The Joint Staff
J-61, Information Integration Division
LtCol Jack O'Donnel**

Agenda

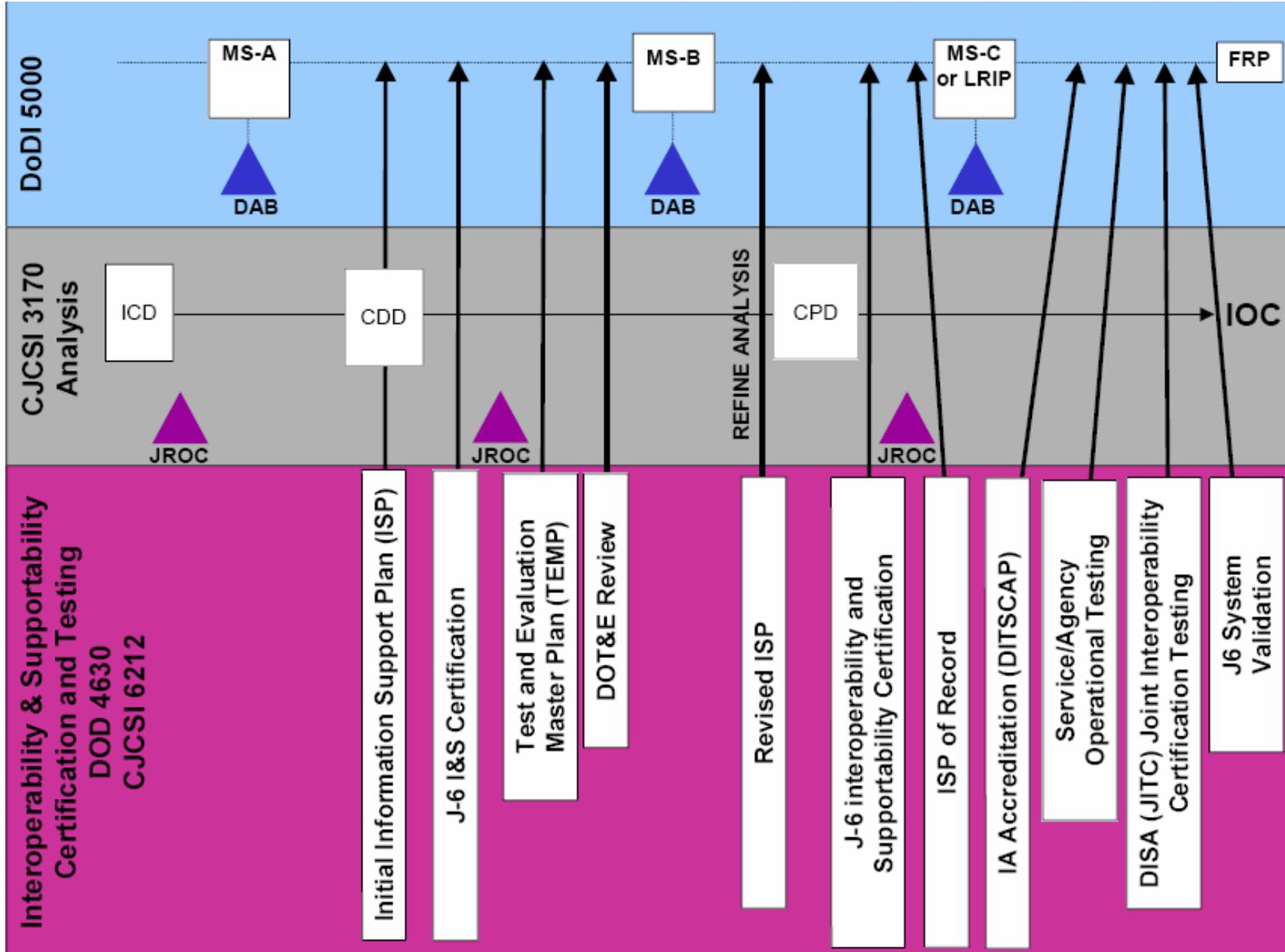


- **Interoperability and Supportability (I&S) Policy and Procedures**
- **JCIDS and I&S Certification**
 - **JCIDS Capability Documents (JCD/ICD/CDD/CPD)**
- **I&S Certification Process and the Information Support Plan (ISP)**
- **Tailored ISP**

Ties to Other DOD and Joint Policy and Processes



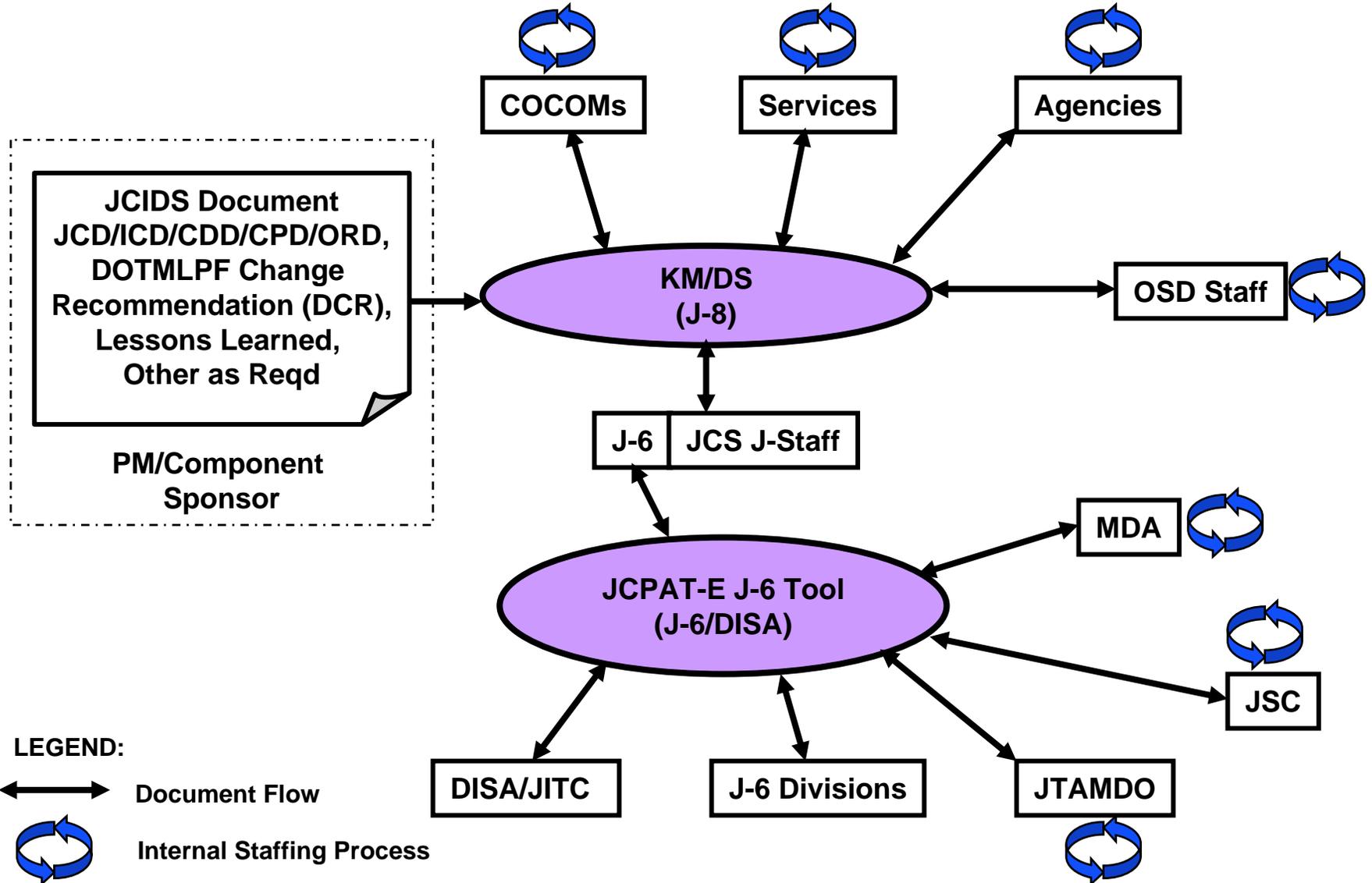
Synchronization – DoD 5000 & CJCSI 3170 and 6212



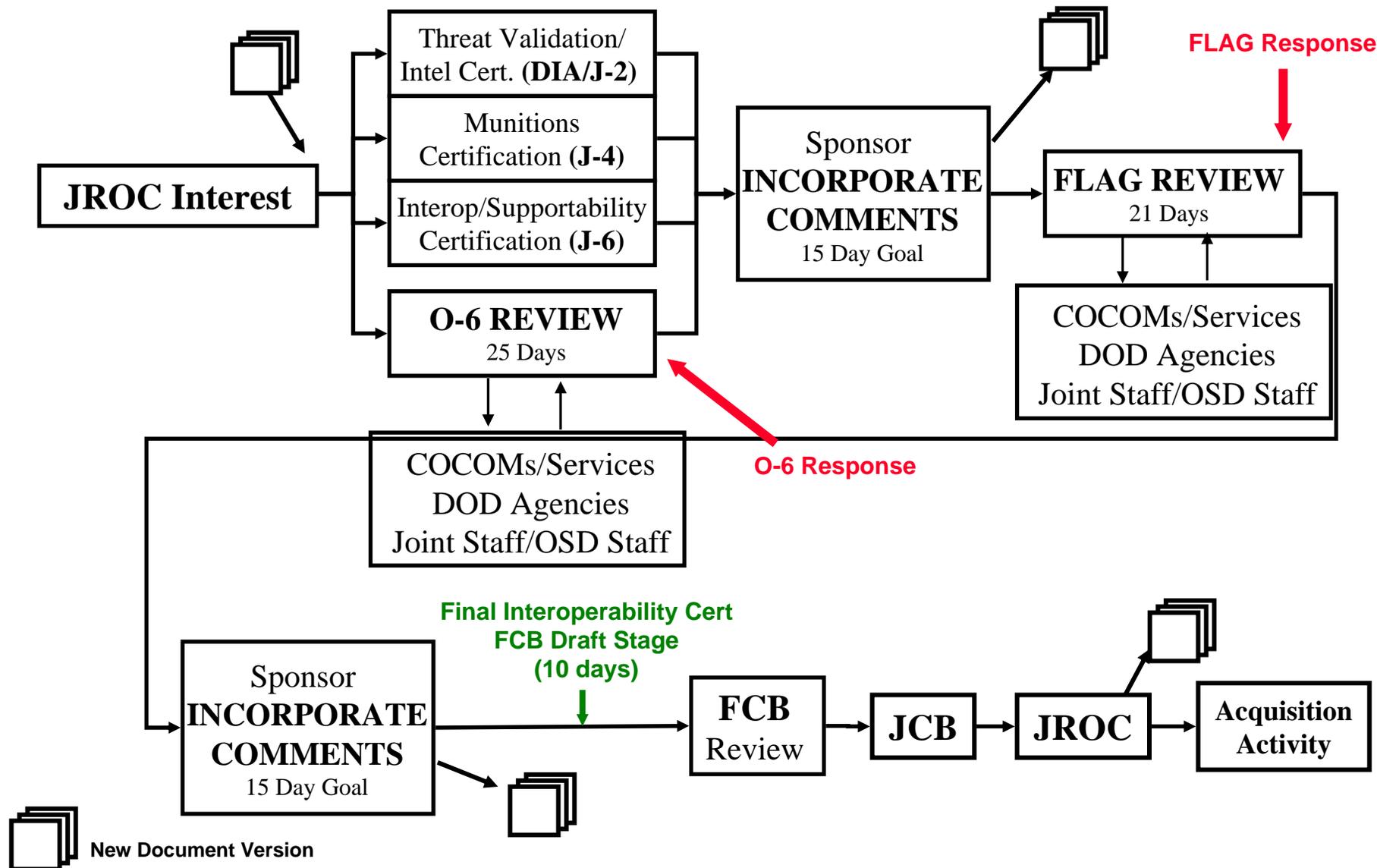


JCIDS and Interoperability & Supportability Certification

J-6 JCIDS Document Staffing Process



JCIDS JROC Interest Staffing Process



Interoperability Certification Criteria



- CJCSI 3170.01E, CJCSM 3170.01A, and CJCSI 6212.01D Format and Criteria
 - **Includes NR-KPP**
 - **Adherence to NCOW Reference Model**
 - **Required Integrated Architecture Products**
 - **Adherence to Developed Key Interface Profiles (KIPs)**
 - **Information Assurance**
 - System Registration (JCPAT-E and DOD IT Registry)
 - IT Standards Profile (JCPAT-E)
- J-6 Interoperability Certification Memorandum Provided to Document Sponsor Via KM/DS



Information Support Plan

Interoperability and Supportability

Certification

I&S Certification and the ISP



- **All JCIDS Documents (ORD/CDD/CPD) for ACAT Programs Will Have an Associated ISP or C4ISP (ORD Updates Only) (Include Results of ISP Analysis in CDD/CPD)**
 - **ACAT I, JROC Interest, and Other ACAT II-IV Program ISPs and C4ISPs May be Designated by OSD(NII) as “OSD Special Interest”**
 - **OSD(NII) Will Staff All ACAT ISPs Designated “OSD Special Interest” to OSD Staff, Combatant Commanders/Services/ Agencies for Review and Comment through the JCPAT-E ISP Tool (* Note)**
 - **J-6 Will Certify CDDs/CPDs for Both Interoperability and Supportability for ACAT Programs and Will Validate the Sufficiency of the NR-KPP in non-ACAT and Fielded Program ISPs (* Note) [Tailored ISP]**
 - **J-6 Will Continue to Certify C4ISPs and ISPs associated with ORD Updates for Supportability (since ORD Format Does Not Have Supportability Information) Until ORDs are Canceled IAW CJCS 3170**
- * Note: Per DODI 4630.8 – Will be Updated in Next Release of CJCSI 6212.01**

Streamlined (Pilot) ISP Timeline

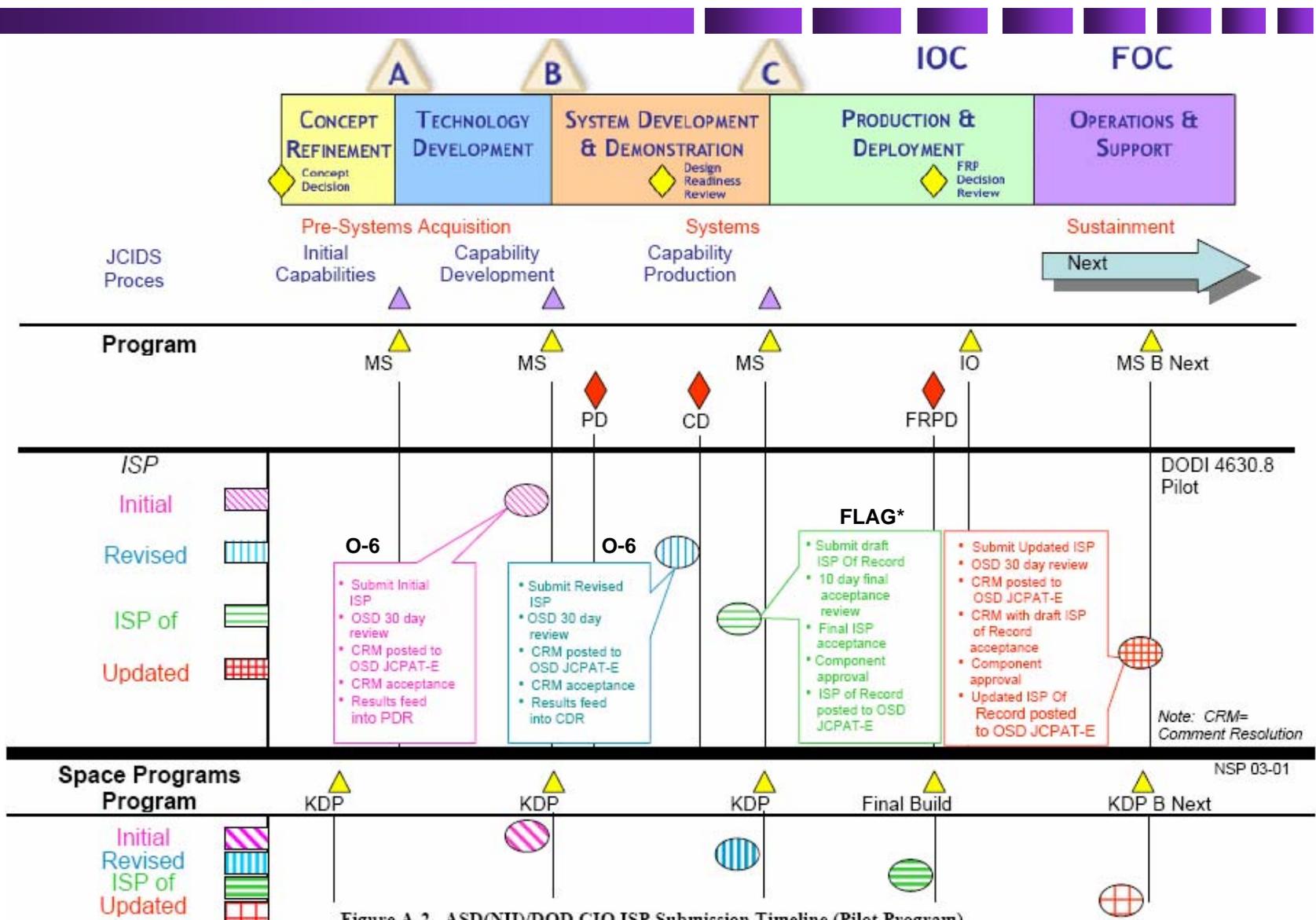


Figure A-2. ASD(NII)/DOD CIO ISP Submission Timeline (Pilot Program)

* Flag review if ACAT I or OASD Special Interest

Tailored ISP



- ACAT II and below as well as Non-ACAT programs may tailor the content of their ISP upon JS (J6) approval.
 - Programs must not be designated “Special Interest” by ASD(NII)/DoD CIO
- The tailored plan will provide an explanation of the program’s Concept of Operations (CONOPS) and will provide IT supportability analysis of the CONOPS.
- The component will obtain from the JS a final decision on the details of the tailored plan subject to the minimums addressed in the CJCSI 6212 and ASD memoranda and any special needs identified by the JS (J2 and J6) for the supportability/interoperability certification

NR-KPP Required Architectural Products

Document	NCOW RM Compliance	Integrated Architecture Products (IAW DODAF)																KIP Compliance	IA Compliance
		AV-1	OV-1	OV-2	OV-3	OV-4	OV-5	OV-6C	OV-7	SV-1	SV-2	SV-4	SV-5	SV-6	SV-11	TV-1	TV-2		
JCD																			
ICD			X																
CDD	X	X	X	X	1	X	X	X	2		X	X	X	X		X	2	X	X
CPD	X	X	X	X	1	X	X	X	2		X	X	X	X	2	X	X	X	X
ISP	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
TISP	X	X	3				X	3		3			X	X		X		X	X
X		Required																	
Note 1		The OV-3 is not assessed as part of the NR-KPP review; however, normally the OV-3 is used to develop other architecture documents and can be included with the NR-KPP documentation to assist in development and conduct of the testing.																	
Note 2		OV-7, SV-11, and TV-2 are required only when applicable.																	
Note 3		TISP OV-1, OV-6c, and SV-1 may be waived by Joint Staff/J6-I																	

System Validation & Lifecycle Oversight



- **J-6 Will Validate the Following Prior to Milestone C:**
 - **Interoperability and Supportability Certification of Capability Documents and Information Support Plans (ISPs)**
 - **JITC Interoperability Certification Testing or Interim Certificate to Operate (ICTO)**
 - **DAA Information Assurance Accreditation or IATO**
- **J-6 Will Provide Validation to the Milestone Decision Authority (MDA) through JCPAT-E (capability available in the next version release of JCPAT-E)**
- **“The Joint Staff J-6 must review subsequent modifications to the program that change the interoperability key performance parameters.” – J-6 Certification Letter**
- **Any Change to the NR-KPP will Invalidate the Interoperability and Supportability Certifications for the System/ Capability and Requires Resubmission and Re-Validation**



Questions?

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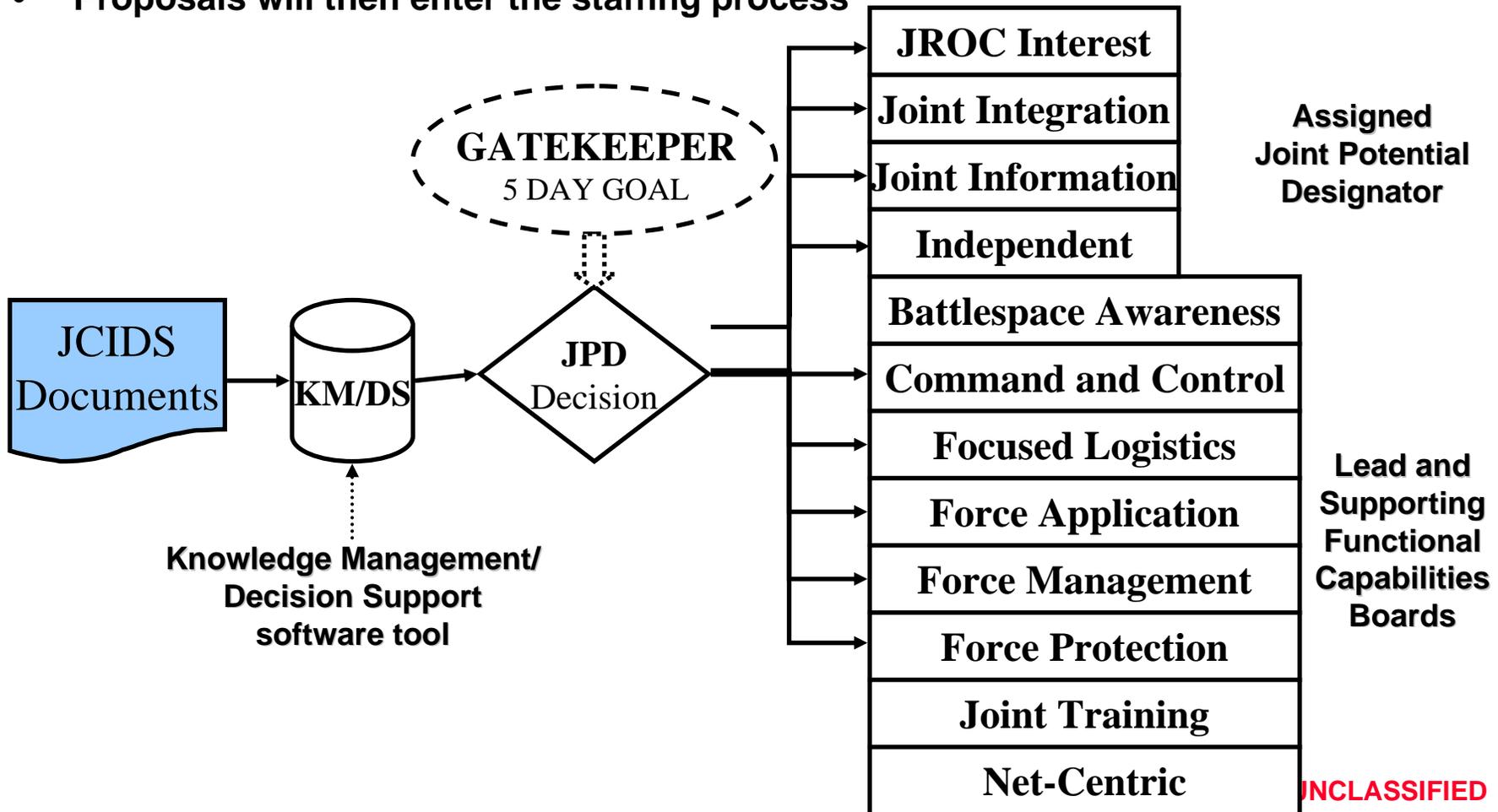
Backup Slides

JCIDS Documentation/ISP Requirements

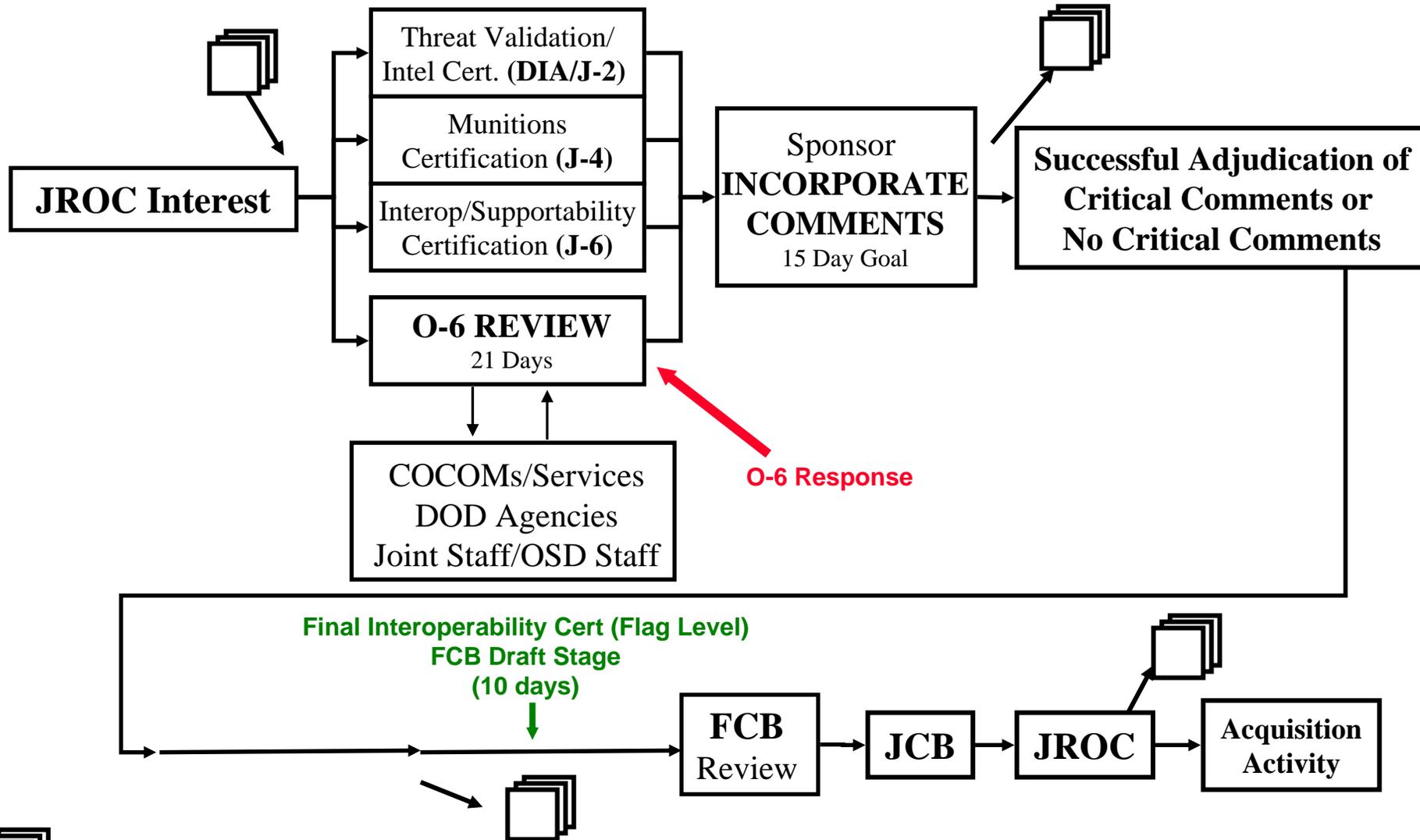
	ORD Update or ICD/CDD/CPD Needed	ORD/CDD/CPD Validation/ Approval Authority	ISP Needed	NR-KPP Validation Authority	ISP Validation Authority
ACAT					
JROC Interest	YES	JROC	YES	J-6 (CDD/CPD)	OASD
Joint Integration/Joint Information	YES	DOD Component	YES	J-6 (CDD/CPD)	DOD Component (*)
Independent	YES	DOD Component	NO	NA	NA
Non-ACAT	NO	N/A	YES	J-6 (ISP)	DOD Component (*)
Fielded					
New or 3 Year Recert	NO	DOD Component	YES	J-6 (ISP)	DOD Component
Additional/new ACAT Procurement	As Above for ACAT	As Above for ACAT	As Above for ACAT	As Above for ACAT	As Above for ACAT
(*) OASD if ISP is designated as OSD Special Interest					

JCIDS Gatekeeping Process

- All JCIDS proposals will be submitted to the Gatekeeper
 - Joint potential designator (JPD) will be assigned
 - Lead/supporting FCBs/JWCAs identified
- Proposals will then enter the staffing process

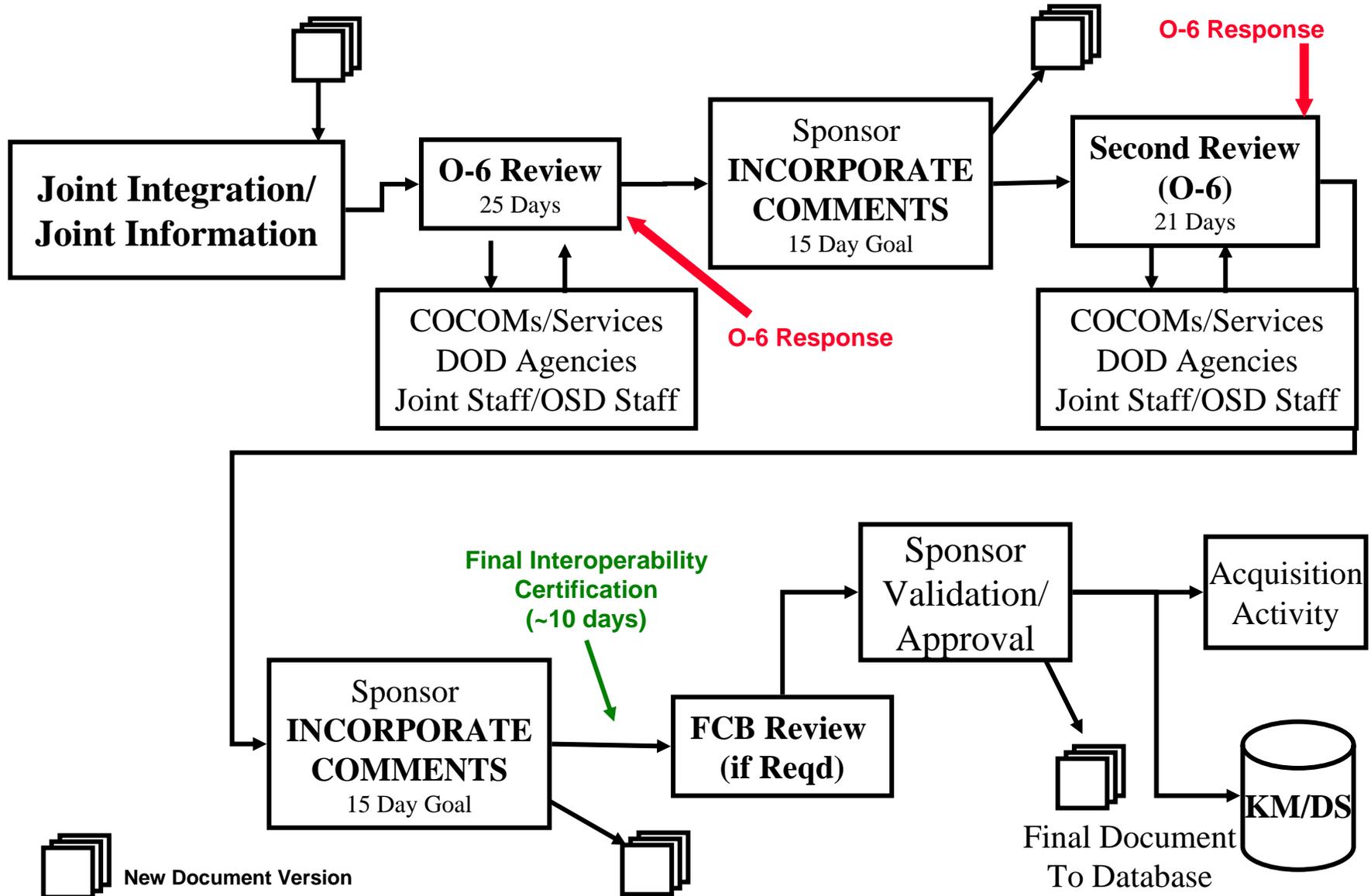


JROCM 100-05, JCIDS JROC Interest Staffing Process

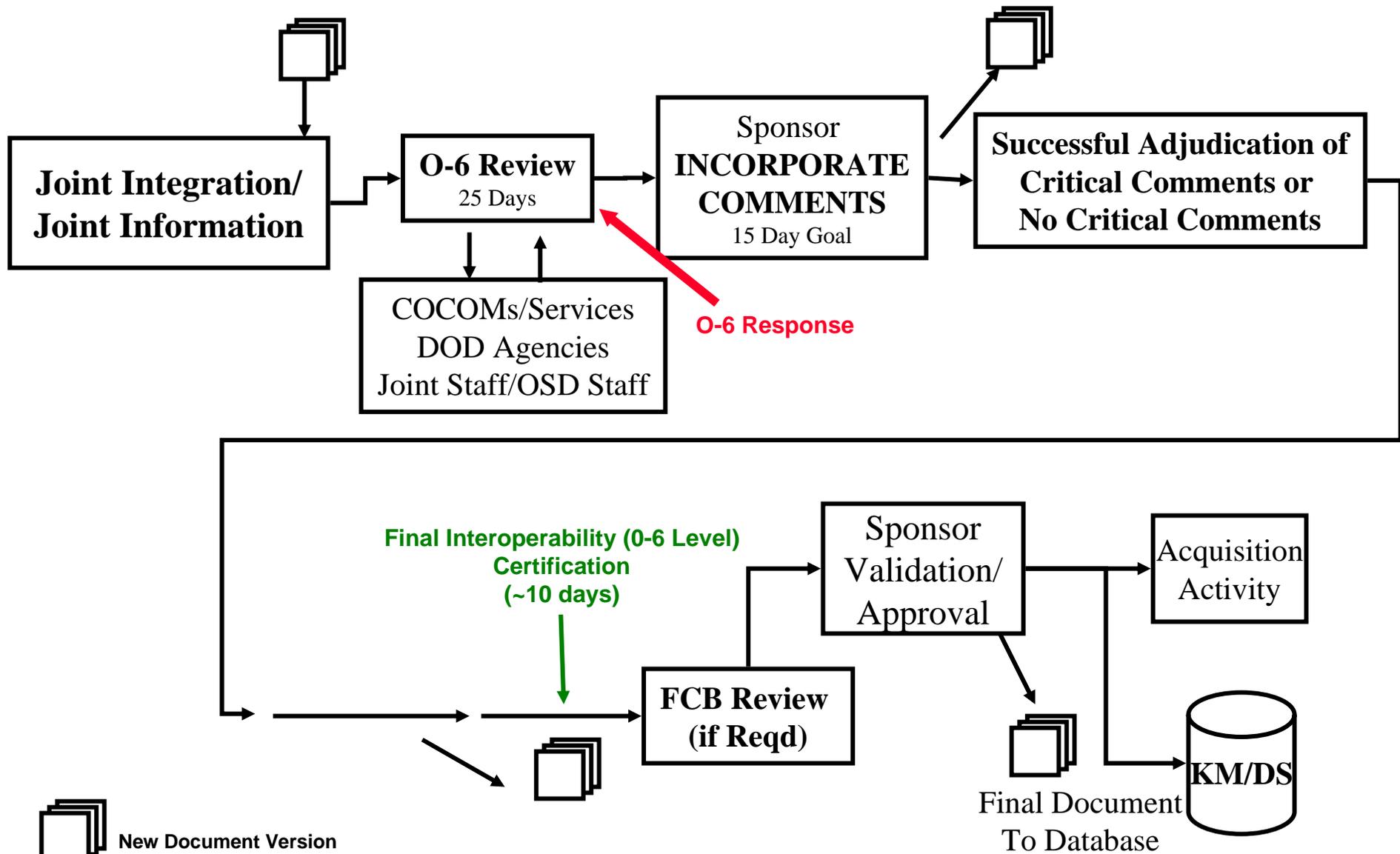


New Document Version

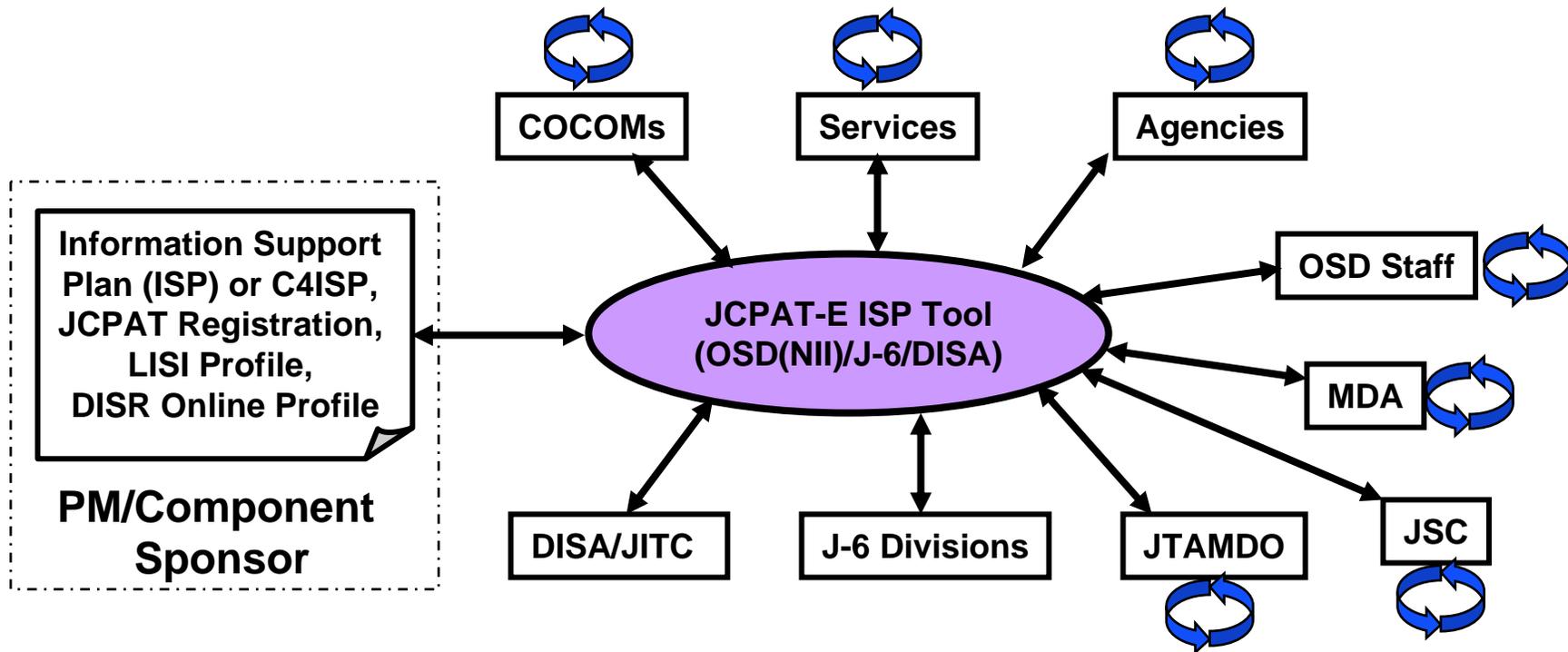
JCIDS Joint Integration/Joint Information Staffing and Approval Process



JROCM 100-05, JCIDS Joint Integration/Joint Information Staffing and Approval Process



J-6 ISP Staffing Process (**OSD Special Interest ISPs)



LEGEND:



Document Flow



Internal Staffing Process

***Note: Non-ACAT, Fielded System and ACAT ISPs not Designated as “OSD Special Interest” are Reviewed Only by DISA, JITC, JSC, and J-6 for NR-KPP Validation

I&S Certification and the ISP



- **PMs will Prepare and Submit ISPs for all ACAT, Non-ACAT, and Fielded Systems to JCPAT-E ISP Tool**
- **Supportability Certification Based on Review and Certification of the CDD/CPD (ACAT Programs) through JCIDS process**
- **Interoperability/Supportability Certification Based on Review of the Information Support Plan (ISP) (non-ACAT, Fielded ISPs) using JCPAT-E (*Note 1)**
- **Preparation of All ISPs Include:**
 - **System Registration (JCPAT-E and DOD IT Registry)**
 - **IT Standards Profile (JCPAT-E DISR Online Tool)**
 - **Inclusion of NR-KPP (NCOW Reference Model, Integrated Architecture Products, Adherence to Key Interface Profiles (KIPs) and Information Assurance)**
 - **Analysis, Support Required, Shortfalls etc. IAW CJCSI 6212.01D and DOD 4630 Series (Include Results in CDD/CPD for ACAT Programs)**

*** Note 1: Will Be Included in Next Release of CJCSI 6212.01**

Streamlined (Pilot) ISP

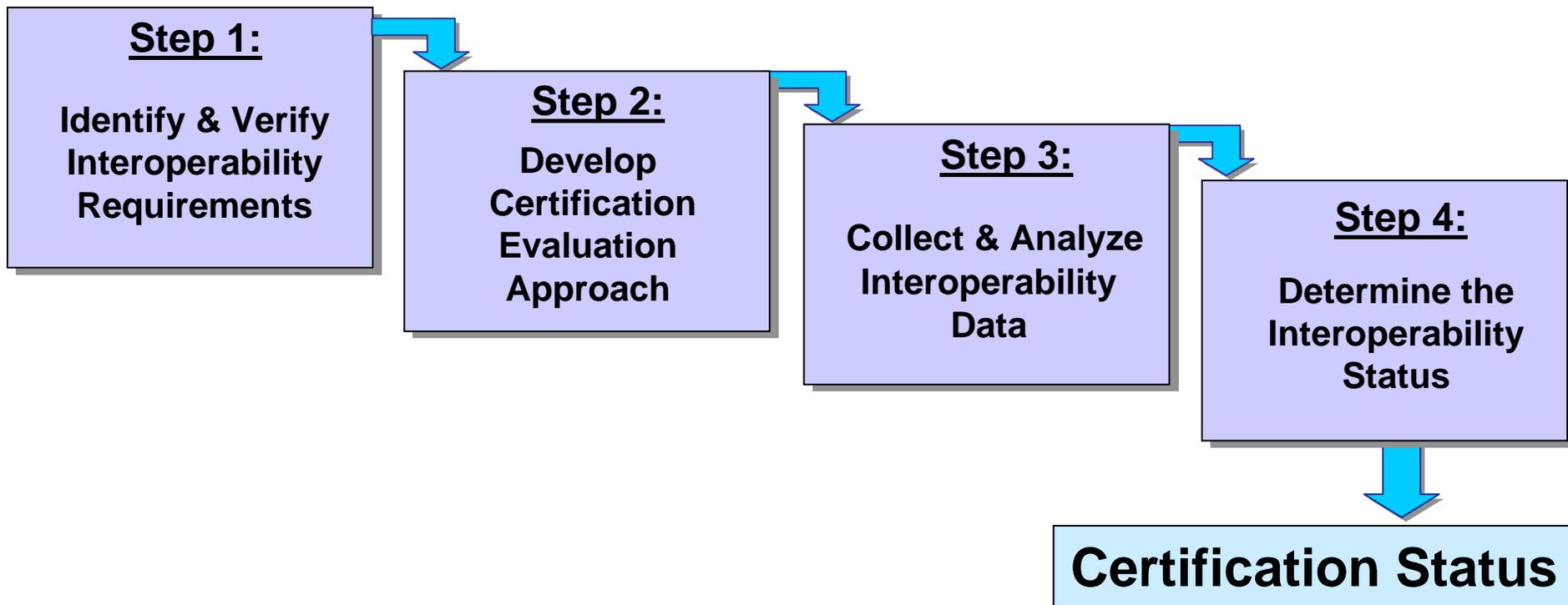
- An initial ISP is an ISP version with a review completed prior to MS B; the content emphasizes the functional design and the operational architecture views. The JS (J2/J6) will issue comments on the plan that need to be addressed in the next version.
- A revised ISP is an ISP version with the OSD-level review completed prior to Critical Design Review (CDR) (programs with multiple CDRs should coordinate this submission with ASD(NII)/DoD CIO); the content emphasis is on the system design, system architecture views, and technical architecture views and their relationship to the operational architecture views. The JS (J2/J6) will issue comments on the ISP that need to be addressed in the ISP of record.
- A final ISP of record is an ISP version with a final acceptance review completed prior to MS C. After the review, an additional 10 day final acceptance review by J2 and J6 is completed prior to MS C. The purpose of this acceptance review will be to issue intelligence and supportability certifications as required in Chairman Joint Chief of Staff Instructions (CJCSIs) 3312.01 and 6212.01D. Upon Joint Staff J2 and J6 certification, the final Component approved ISP will then be submitted to JCPAT-E as the ISP of record.



DISA(JITC) Testing/Evaluation and Interoperability Certification

JITC Interoperability Testing and Certification Steps

Four Basic Steps



UNCLASSIFIED

Interim Certificate to Operate (ICTO)



- Way ahead for a program or system while pursuing:
 - “Interoperability certification of requirements” from J-6 and
 - “Interoperability testing certification” from JITC
- Submit ICTO requests to:
 - The Interoperability Test Panel (ITP) under the USMCEB
- In accordance with:
 - Annex D of the ITP charter



System Validation



Lifecycle Oversight

Lifecycle Oversight

- “IT and NSS interoperability and supportability needs, for a given capability, shall be identified through the Joint Capabilities Integration and Development System (JCIDS) process, in conjunction with the acquisition process, and shall be updated as necessary throughout the system’s life” – DODI 4630.8 (Draft), para 4.5
- “IT and NSS shall be tested early and with sufficient frequency throughout a system’s life, or upon changes affecting interoperability or supportability, to assess, evaluate, and certify its overall interoperability and supportability within a given capability.” DODI 4630.8 (Draft), para 4.7
- “Establishing interoperability and supportability in a DOD system is a continuous process that must be managed throughout the life cycle of the system.” – CJCSI 6212.01D para 6.a
- “The Joint Staff J-6 must review subsequent modifications to the program that change the interoperability key performance parameters.” – J-6 Certification Letter
- **Bottom Line: Any Change to the NR-KPP will Invalidate the Interoperability and Supportability Certifications for the System/ Capability and Requires Resubmission and Re-Validation**

Revised DODD 5000.1, DODI 5000.2 and DOD 5000.2R - USD-AT&L

DODD 4630.5 & DODI 4630.8 - OASD-NII

Capabilities

CJCSI 3170 (J8)

- Capability Validation Process/Procedures
- ICD, CDD, CPD Format
- NET READY KPP

CJCSI 6212 (J6)

- Interoperability and Supportability Certification and Testing
- Methodology for Net Ready KPP Development /Validation

Acquisition

Information Support Plan (OASD-NII)

Operational/Systems /Technical Architecture Infrastructure Support

Testing

TEMP

Systems specs accurately reflect requirements and acquisition documents

Service/Agency Testing

- DT/Standards Conformance
- OT&E
- Interoperability Testing

DISA(JITC) Interoperability Test Certification

J-6 Interoperability System Validation

Process