

# Implementing the Sharing of Data, Information, and Information Technology (IT) Services in the Department of Defense

1. PURPOSE. In accordance with the authority in DoD Instruction (DoDI) 8320.02 (Reference (a)) and DoD Directive (DoDD) 5144.02 (Reference (b)), this instruction: a. Establishes policy, assigns responsibilities, and prescribes procedures to implement Reference (a) and to enable a secure sharing environment in the DoD that supports the warfighting, business, DoD intelligence, and enterprise information environment mission areas. b. Describes or references key enablers necessary for sharing data, information, and IT services and ensuring data, information, and IT services are visible, accessible, understandable, trustworthy, and interoperable. Key enablers include, but are not limited to, concepts, processes, governance forums, standards, models, and shared vocabularies.

For the purposes of the instruction, data sharing and information sharing are equivalent terms. Service and IT service, are used interchangeably throughout this instruction. IT services include DoD Enterprise Services; however, not all IT services are DoD Enterprise Services. c. Guides the use of resources for implementing the sharing of data, information, and IT services within the DoD Information Enterprise (IE) and with mission partners. d. Incorporates and cancels DoD 8320.02-G (Reference (c)).

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## U.S. Department of Defense (DOD)

### Stakeholder(s):

Terry A. Halvorsen :  
Chief Information Officer

### DoD Components :

2. **APPLICABILITY** a. This instruction applies to: (1) OSD, the Military Departments, the Office of the Chairman of the Joint Chiefs of Staff (CJCS) and the Joint Staff, the Combatant Commands, the Office of the Inspector General of the Department of Defense, the Defense Agencies, the DoD Field Activities, and all other organizational entities within the DoD (referred to collectively in this instruction as the “DoD Components”).

### OSD

Military Departments

### Office of the Chairman of the Joint Chiefs of Staff (CJCS)

Joint Staff

Combatant Commands

### Office of the Inspector General of the Department of Defense

Defense Agencies

DoD Field Activities

### United States Coast Guard :

(2) The United States Coast Guard. The U.S. Coast Guard will adhere to DoD requirements, standards, and policies in this instruction in accordance with the direction in Paragraph 4a of the Memorandum of Agreement between the Department of Defense and the Department of Homeland Security (Reference (ay)).

### Communities of Interest :

(3) All new data assets, information, IT services, IT systems, and capabilities, as well as existing data assets, information, IT services, IT systems, and capabilities when investment funds are

received for modernization, to include those managed as part of a community of interest (COI). (a) DoD Chief Information Officer (CIO) Memorandum (Reference (d)), key principles, rules, constraints, and best practices apply within the Internet Protocol Boundary of the DoD Information Network (DoDIN), including those devices that are often disconnected if they are used to receive and share data. (b) Outside of these boundaries, key principles still should be considered, but the rules of the DoD IE Architecture must yield to the state of technology and the needs and imperatives of DoD missions.

### Electronic Information Services :

(4) Data, information, and IT services in electronic form.

### Forward Deployed Systems :

b. This instruction does not apply to data, information, and IT services supporting existing forward deployed systems, or those systems in use in combat operations, except to the extent that they receive investment dollars for modernization. Mandatory retrofitting of existing systems, services, or capabilities is not required.

### Director of National Intelligence :

c. This instruction will not alter or supersede: (1) The existing authorities and policies of the Director of National Intelligence (DNI) regarding the protection of sensitive compartmented information (SCI) and special access programs (SAP) for intelligence pursuant to Executive Order 12333 (Reference (e)) and other applicable laws and regulations. The application of the provisions and procedures of this instruction to SCI or other SAP for intelligence information systems is encouraged where they may complement or discuss topics not otherwise specifically addressed.

### Business Information Exchange Partners :

c. This instruction will not alter or supersede: (2) Existing laws and policies regarding the use of existing business information exchange standards to record the initiation of and responses to business events among the DoD, Federal, State, local government, foreign government, and commercial trading partners that comprise the DoD acquisition, logistics, and finance communities.

## Vision

The warfighting, business, DoD intelligence, and enterprise information environment mission areas are supported.

## Mission

To enable a secure sharing environment in the DoD.

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## a. Information Exchange

*Improve information exchange across the DoD and with its mission partners.*

a. The DoD will effectively improve information exchange across the DoD and with its mission partners to defend the United States and enhance global stability in accordance with DoDD 8000.01 (Reference (f)), the DoD CIO Memorandum (Reference (g)), and Executive Order 13526 (Reference (h)).

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## **b. NIEM & XML**

*Consider use of National Information Exchange Model (NIEM)-based exchanges for all new Extensible Markup Language (XML) information exchanges.*

b. In accordance with DoD CIO Memorandum (Reference (i)), and except as required otherwise by law or DoD policy, the use of National Information Exchange Model (NIEM)-based exchanges must be considered for all new Extensible Markup Language (XML) information exchanges created and for all XML information exchanges being modernized as part of the normal lifecycle management for these information exchanges.

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### **c. Standards & Specifications**

*Implement applicable standards and specifications.*

c. All DoD activities will implement applicable standards and specifications as cited in the DoD IT Standards Registry (DISR) or successor registry, pursuant to DoDI 8330.01 (Reference (j)).

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#### **d. Data Sources**

*Designate, register, and use authoritative data sources (ADSs) to the maximum extent possible.*

d. In accordance with Reference (a), authoritative data sources (ADSs) will be designated, registered, and used to the maximum extent possible to improve mission effectiveness by enabling the reuse of visible, accessible, understandable, trustworthy, and interoperable data. Criteria to designate and register an ADS is outlined in the DoD Data Services Environment (DSE) Concept of Operations (CONOPS) (Reference (k)) and DoD DSE User Manual (Reference (l)).

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**e. Metadata**

*Create and associate metadata with data, information, and IT services.*

e. Data, information, and IT services will be visible to authorized users by creating and associating metadata (“tagging”), including discovery metadata, for each asset. In accordance with Reference (a), DoD metadata standards will comply with applicable national and international consensus standards for metadata exchange when possible.

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## **f. Education, Training & Processes**

*Include data, information, and IT services-sharing concepts and practices in education and awareness training and the appropriate DoD processes.*

f. Data, information, and IT services-sharing concepts and practices will be included in education and awareness training and the appropriate DoD processes.

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**g. Compliance**

*Comply with this instruction during planning, approval, budgeting, funding, development, purchase, implementation, certification, and operation phases.*

g. Data, information, or IT services will comply with this instruction, DoDI 5000.02 (Reference (m)), The Planning, Programming, Budgeting, and Execution (PPBE) Process (Reference (am)), and the Data and Services Deployment Principles and Business Rules as specified in Reference (d) during planning, approval, budgeting, funding, development, purchase, implementation, certification, or operation phases.

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## **h. Standards, Protocols & Interfaces**

*Use a common set of standards, protocols, and interfaces.*

h. A common set of standards, protocols, and interfaces will be used to enable the sharing of DoD data, information, and IT services pursuant to Reference (d), Office of Management and Budget Memo M-13-13 (Reference (n)) and DoDI 8551.01 (Reference (o)). A common information-sharing technical framework will be used at all levels throughout the DoD in accordance with Reference (d). All new IT systems must be designed for openness, expose highvalue data and content through implementation of neutral hosted services, and publish public data sets in the list at [www.defense.gov/data](http://www.defense.gov/data). For existing systems, high-value data and content will be made available through Web application programming interfaces (APIs) and apply metadata tagging, as appropriate. To the greatest extent possible, the DoD's common information sharing standards, protocols, and interfaces will be compatible and interoperable with those of other federal departments, agencies, and mission partners.

## **i. Identity & Access**

*Make data and information accessible via identity and access management (IdAM) mechanisms.*

- i. Data and information will be accessible via appropriate identity and access management (IdAM) mechanisms in accordance with DoD IdAM guidance.

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## **j. Security Metadata**

*Include security metadata with electronic data and information intended to be shared.*

j. Electronic data and information intended to be shared should, at a minimum, include associated security metadata identifying its classification determination, markings, disclosure, and handling rules in order to support access control.

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**k. Records**

*Manage records in accordance with DoDI 5015.02.*

k. Data and information that meets the definition of a federal record will be managed in accordance with records management policies outlined in DoDI 5015.02 (Reference (p)).

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## I. Personally Identifiable Information

*Comply with DoDD 5400.11 and DoD 5400.11-R with regard to personally identifiable information and sharing of information.*

I. All DoD activities will comply with DoDD 5400.11 (Reference (q)) and DoD 5400.11-R (Reference (r)) with regard to personally identifiable information and sharing of information.

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### **m. Procurement & Supply Chain**

*Comply with the Federal Acquisition Regulation, Defense Federal Acquisition Regulation Supplement, and DoDI 4140.01 for sharing of data and information regarding DoD procurement and supply chain management.*

m. All DoD activities will comply with the Federal Acquisition Regulation (Reference (s)), Defense Federal Acquisition Regulation Supplement (Reference (t)), and DoDI 4140.01 (Reference (u)) for sharing of data and information regarding DoD procurement and supply chain management, respectively.

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## **n. Accessibility**

*Enable persons with disabilities to access and use information and data.*

n. Individuals who are federal employees with disabilities or members of the public with disabilities seeking information or services from the DoD will have access to, and use of, information and data comparable to the access and use available to federal or public individuals without disabilities, subject to appropriate access considerations and in accordance with section 794d of Title 29, United States Code (Reference (v)). For exceptions to compliance with Reference (v), refer to DoD Manual (DoDM) 8400.01-M (Reference (w)).

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