



Department of Defense DIRECTIVE

NUMBER 8190.1

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DUSD(L)

SUBJECT: DoD Logistics Use of Electronic Data Interchange (EDI) Standards

- References:
- (a) Deputy Secretary of Defense Memorandum, "Department of Defense Reform Initiative #48 – Adoption of Commercial EDI Standards for DoD Logistics Business Transactions," December 9, 1998 (hereby canceled)
 - (b) Under Secretary of Defense Acquisition and Technology Memorandum, "Policy and Guidance for Department of Defense (DoD) Logistics Use of Electronic Data Interchange (EDI) Standards," September 14, 1999 (hereby canceled)
 - (c) Federal Information Processing Standards (FIPS) Publication 161-2, "Announcing the Standard for Electronic Data Interchange (EDI)," April 29, 1996
 - (d) DoD Directive 8190.2, "The Department of Defense (DoD) Electronic Business/Electronic Commerce (EB/EC) Program," June 23, 2000
 - (e) DoD Implementation Plan for Adoption of Commercial Electronic Data Interchange Standards for DoD Logistics, March 2000

1. PURPOSE

This Directive:

- 1.1. Cancels references (a) and (b).
- 1.2. Assigns responsibilities for direction, management, coordination, and control of the process to replace DoD-unique logistics data exchange standards.

1.3. Directs the use of approved EDI standards and supporting implementation conventions (ICs) for DoD logistics business transactional data exchange as described by FIPS 161-2 (reference (c)).

2. APPLICABILITY

This Directive applies to the Office of the Secretary of Defense, the Military Departments, the Chairman of the Joints Chiefs of 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 Department of Defense (hereafter referred to as "the DoD Components").

3. DEFINITIONS

Terms used in this Directive are defined in enclosure 1.

4. POLICY

It is DoD policy to:

4.1. Replace DoD-unique logistics data exchange standards with American National Standards Institute (ANSI) Accredited Standards Committee (ASC) X12 (hereafter referred to as "ASC X12") standards as a stepping-stone to move transactional-based logistics business processes towards the use of international open data interchange standards. Although the focus of this policy is on implementing ASC X12, it acknowledges the existence of other EDI standards and non-transactional data interchange methods. As such, this policy does not preclude the use of other data interchange and data sharing techniques.

4.2. Use only FIPS 161-2 EDI standards (reference (c)) and Federal EDI Standards Management Coordination Committee (FESMCC)/DoD EDI Standards Management Committee (EDISMC)-approved ICs for electronic business transaction exchanges in new and planned logistics business processes to include major modifications to existing legacy systems. The Defense Logistics Management System (DLMS) is the basis for new, replacement, and major modifications to logistics business processes.

4.3. Use the DLMS as a process improvement enabler in new, replacement, and

legacy logistics business systems as a part of the DoD Component ongoing and planned modernization programs. Internal communications among DoD systems will use reference (c) and FESMCC/EDISMC-approved ICs. External communications between DoD systems and the private sector, other Federal Agencies, or foreign governments will use reference (c) (or other appropriate standards) and FESMCC/EDISMC-approved ICs appropriate for the agencies, industries, or governments involved.

4.4. Modify legacy logistics business systems to employ new functionality, where cost beneficial, in order to meet the total requirements of the Department of Defense's migration to approved EDI standards. Legacy logistics business systems will not be replaced or modified solely for the purpose of implementing commercial standards. DoD automated information systems will be replaced or modified based on sound functional requirements and supporting economic justification.

4.5. Propose adoption of commercial ICs when it is in the best interest of the Department of Defense.

4.6. Program, fund, and execute implementation of DLMS through process improvements and business system upgrades.

4.7. Develop and apply Department-wide services and processes to minimize duplication and ensure interoperability.

4.8. Implement the policy guidance in DoD Directive 8190.2 (reference (d)) when migrating DoD logistics business processes to use of reference (c).

4.9. Ensure that legal issues regarding use of electronic records are addressed when considering new or modified EDI processes.

5. RESPONSIBILITIES

5.1. The Under Secretary of Defense (Acquisition, Technology and Logistics) (USD(AT&L)) shall:

5.1.1. Serve as the Department's Principal Staff Assistant (PSA) responsible for management and implementation of approved EDI standards for DoD logistics business processes.

5.1.2. Issue logistics data exchange policies and directives, and ensure that

those policies are coordinated with other functional areas (e.g., finance, acquisition, etc.) when appropriate.

5.1.3. Advocate the DoD Component initiatives migrate logistics business processes to use of approved EB/EC methods.

5.1.4. Ensure the DoD Component logistics business modernization efforts comply with policies and guidance contained herein.

5.1.5. Promote logistics business process improvement by issuing logistics guidance that is complementary to this policy.

5.1.6. Provide policy direction and oversight through the Director, Defense Logistics Agency, to the Defense Logistics Management Standards Office (DLMSO), who as the Department's Executive Agent for logistics data interchange, shall:

5.1.6.1. Support legacy system interoperability with new and emerging systems subject to this policy.

5.1.6.2. Describe and justify the requirements for technology and process to support the Department's transition to ASC X12 EDI standards and the continuous improvement of logistics processes through efficient adoption of logistics data interchange business rules.

5.1.6.3. Serve as logistics configuration manager for development of business rules and implementation conventions supporting process improvements.

5.1.6.4. Develop (in coordination with the Department's logistics stakeholders), publish, document, and maintain logistics data interchange business rules and implementation conventions, supporting the Department's migration to and operation of a commercial EDI-based, optimized logistics process.

5.1.6.5. Coordinate representation on all industry logistics EDI standards groups with the FESMMC/EDISMC for the purpose of ensuring a common face to industry.

5.1.7. Incorporate these policies and required direction into the DoD Logistics Strategic Plan and the DoD EB/EC Strategic Plan.

5.2. The DoD Chief Information Officer (CIO) shall:

5.2.1. Ensure that the Joint Electronic Commerce Program, which is articulated in reference (d), includes DLMS implementation.

5.2.2. Ensure that DoD EB/EC policy initiatives include logistics-business processes, as appropriate.

5.2.3. Keep appropriate Heads of the DoD Components apprised of progress regarding the implementation of approved EDI standards into DoD logistics-business processes.

5.3. The DoD General Counsel shall assist the DoD Components in resolving legal issues associated with maintaining electronic records.

5.4. The Inspector General, DoD, shall:

5.4.1. Periodically perform and report on evaluations of DoD Components for compliance with this Directive.

5.4.2. Provide technical assistance to DoD Components and their internal review, inspection, and investigative activities on DLMS matters.

5.4.3. Provide audit policy direction for DoD Component Heads on reviewing and reporting on the implementation of policies and standards established by this Directive.

5.5. The Heads of DoD Components shall:

5.5.1. Promote and promulgate the application of ASC X12 principles and practices within their respective logistics business processes through implementation of the DLMS. Identify additional logistics business areas (e.g., maintenance, munitions, etc.) that do not currently have DLMS processes in place.

5.5.2. Provide all plans for implementing new, replacement, or major modifications to systems that will use DLMS. Submit DoD Component plans to DLMSO in accordance with the milestone schedule in the approved DoD Implementation Plan, Adopting Commercial EDI Standards for DoD Logistics (reference (e)).

5.5.3. Estimate corporate service resource requirements to support plans called for in paragraph 5.5.2., above. Submit these requirements in accordance with the milestone schedule in reference (e).

5.5.4. Designate a single organization, in coordination with their EB/EC focal points, to oversee the migration of logistics business processes to the DLMS.

5.5.5. Each time a legacy system is modified, identify targets of opportunity to migrate from the Defense Logistics Standard Systems (DLSS) to DLMS.

5.5.6. Where digital signatures are included as part of electronic records, ensure that the processes used in maintaining these records include preservation of the original digital signatures.

5.5.7. Support the USD(AT&L) and the DoD CIO in the development of policies and procedures to affect use of approved EDI standards in lieu of DoD-unique logistics data exchange standards.

5.5.8. Report on major milestones at least semiannually (reference DLMSO Reports Control Symbol (RCS): DD-AT&L(Q&SA)1419 to DLMSO on the progress migrating logistics business processes to the DLMS.

6. EFFECTIVE DATE

This Directive is effective immediately.



Rudy de Leon
Deputy Secretary of Defense

Enclosures - 1

E1. Definitions

E1. ENCLOSURE 1

DEFINITIONS

E1.1.1. American National Standards Institute (ANSI). A national coordinator of voluntary standards for the United States. ANSI approves a standard only when it has verified evidence presented by the standards developer that those materially affected by the standard have reached substantial agreement (consensus) on its provisions.

E1.1.2. Accredited Standards Committee X12 (ASC X12). Accredited by ANSI in 1979, ASC X12, Electronic Data Interchange, is a voluntary standards group charged with developing American National Standards for electronic data interchange.

E1.1.3. Defense Logistics Management Systems (DLMS). A broad base of business rules to include uniform policies, procedures, time standards, transactions, and data management designed to meet the Department of Defense's requirements for total logistics support. The DLMS is founded upon ANSI ASC X12 EDI and will be expanded to support emerging EB/EC capabilities such as: data sharing, automated identification technology, object-oriented user interfaces, electronic malls, web-based technology, and electronic funds transfer, as appropriate.

E1.1.4. Defense Logistics Standard Systems (DLSS). A broad base of logistics transactions and standards consisting of fixed-length DoD-unique standards designed to meet the Department of Defense's requirements for logistics support.

E1.1.5. Electronic Business (EB). The application of Electronic Commerce techniques and solutions to the business processes of the Department of Defense to include the entire range of the DoD functional areas. For the purpose of this document, functions are those defined in Joint Pub 1-02, i.e., appropriate or assigned duties, responsibilities, missions, tasks, functions, powers or duties of an individual office or organization. A functional area is comprised of one or more functional activities, each of which consists of one or more functional processes.

E1.1.6. Electronic Commerce (EC). The interchange and processing of information using electronic techniques for accomplishing business transactions based upon the application of commercial standards and practices. Further, an integral part of implementing Electronic Commerce is the application of process improvements to enhance business processes, normally but not necessarily, prior to the incorporation of technologies facilitating the electronic exchange of business information.

E1.1.7. Electronic Data Interchange (EDI). The computer-to-computer exchange of business data in a standardized format between entities.

E1.1.8. Federal Information Processing Standards Publications (FIPS Pubs). Issued by the National Institute of Standards and Technology (NIST) after approval by the Secretary of Commerce pursuant to Section 111(d) of the Federal Property and Administration Services Act of 1949, as amended by the Computer Security Act of 1987, Public Law 100-235. May be accessed on Web location: <http://www.itl.nist.gov/fipspubs/>.

E1.1.9. Implementation Convention (IC). Defines structure and content of a transaction and maps application data requirements into a specific transaction set for implementation.

E1.1.10. Legacy Systems. Information systems currently performing a logistics function. These systems may be candidates for phase-out, upgrade, or replacement.

E1.1.11. Logistics Business Systems. Applies to planned, new, and legacy DoD logistics systems.