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*Contract Language
for
Understanding-Based Data Interoperability*

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Contract Language for Understanding-Based Data Interoperability

Understanding-based data interoperability is the ability of systems, organizations and equipment to provide information exchanges to and accept information exchanges from other systems, organizations and equipment such that these systems, organizations, and equipment can operate effectively together.

More specifically, when dealing with information exchanges among automated information systems (AISs), data interoperability requires the alignment of the syntax and semantics of any data asset product and any required supporting process specifications involved in information exchanges so that there is no loss in either meaning or precision, and so that information exchanges do not need human intervention. These alignments shall be achieved through congruent syntax and semantics within the AISs, and/or through mapped syntax and semantics among AISs involved in information exchanges, and/or through the creation of additional data asset products including their specifications and any additional specifications that may be required to represent the set of interoperable information exchanges.

Data interoperability is required across all AISs. AISs shall also be both vertically and horizontally interoperable with legacy and interim AISs supported on platforms, tactical and logistics, and individual functional area systems across operating systems. Additionally, the requirement for data interoperability shall extend to organizations normally outside traditional boundaries.

The set of data asset product specifications that achieve data interoperability are called "data interoperability specifications."

The set of data interoperability specifications shall conform to the requirements contained within the policies and procedures set down by data standards and data asset product specifications. Except where specifically exempted, these information exchanges shall be accomplished through the use of Information Exchange Standards Specifications (IESS), and Enterprise Identifiers



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(EID), and Authoritative Data Sources (ADS), and, where appropriate, XML for non-proprietary information exchanges.

AIS programs shall develop a comprehensive approach and plan to engineer, accomplish, and then maintain the data interoperability specifications such that these specifications are always current and always reside within metadata repository, which themselves shall be interoperable, one with another.

