



Streamlining Provisioning for a Faster Future: Data Standardization and Interoperability are Keys to Success

DLMS Summit

April 1, 2026

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Objective



PURPOSE

- To demonstrate the critical relationship between the Kaleidoscope concept, Defense Logistics Management Standards, and Provisioning/Cataloging.
- To achieve a shared understanding by connecting the theoretical framework of the Kaleidoscope concept to the practical real-world problems faced by the provisioning community and necessary relationship with DLMS.



AGENDA

1. Overview
2. Interoperability
3. Data Strategy Lines of Effort
4. Provisioning Standardization
5. Standardizing Technical Data
6. Provisioning & Interoperability Discussion



Overview

While they may seem like distinct efforts, the Kaleidoscope concept, DEDSO DLMS efforts, and the Federal Catalog all exist to support the execution of our fundamental mission: **ensuring logistics support to the warfighter**.



KALEIDOSCOPE

The Kaleidoscope Concept is the underpinning of the sustainment data foundation strategy.

The Kaleidoscope is intended to enable stakeholders to view and utilize data through their unique perspectives while maintaining alignment with a **trusted baseline** within **structured business logic** framework creating a standardized data foundation supported by governance.



DLMS

DEDSO sets the logistics data standard for the enterprise to ensure we consistently and effectively communicate across the department.

DLMS and MILS are two data standardization products to promote **interoperable** business rules, electronic data interchanges, data elements.



CATALOG & PROVISIONING

The Federal Catalog is the statutory repository of record identifying all items of supply for the entirety of the federal government.

It provides the item master data, standardizing identification and assigning a unique National Stock Number (NSN) to every item.

Provisioning is the official governance process for introducing a new item into that system, which includes defining its characteristics to enable **standardization**.



Interoperability

INTEROPERABLE DEFINED

- Data can be seamlessly exchanged across different systems, missions, and organizations using common standards.
- According to CDAO¹, Interoperable means “*consumers have a common representation / comprehension of data.*”

INTEROPERABILITY, STANDARDIZATION & DOCUMENTATION

- Interoperability and standardization go hand in hand to successfully establish efficient data exchanges while adhering to common standards.
- Systems must be able to communicate with one another rapidly, consistently, and in a manner everyone can understand.
- Data must be accurate, trustworthy, and capable of being consumed and aggregated for a department-wide view.

1. Norquist, David. (September 30, 2020). Executive Summary: DoD Data Strategy Unleashing Data to Advance the National Defense Strategy. Department of Defense.



Kaleidoscope Concept Lines of Effort



ODASW(Log) is working on a data strategy dependent, on interoperability and standardization, and both are addressed across all 5 core lines of effort (LOEs).

LOE 1: PARTNERSHIPS



Identifying the best practices of ongoing efforts are expected to have a high degree of **interoperability** to be emulated.

LOE 2: FRAMEWORK



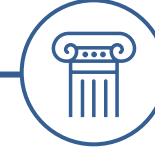
Interoperability is achieved through establishing **commonality** across systems using the business rules, metadata tagging, and related aspects which are core to the framework.

LOE 3: DATA MANAGEMENT



Providing easily understandable and accessible business logic rules and transformations to all parties. This includes transparent process for sunsetting systems.

LOE 4: FOUNDATION



Accessibility to data is not possible without having **standardization and interoperability**. Ensuring data is available for a broad range of stakeholders, inclusive of technical and functional.

LOE 5: GOVERNANCE



Interoperability guidelines will help establish standards to ensure access for all. Across sustainment, gaps in **interoperability and standardization** will need to be addressed in coordination with local governing bodies.



Provisioning Standardization

FOUNDATIONAL DEFINITION:

Standardization in Provisioning enables consistent and uniform methodologies for a two-way exchange of information. Improving consistency, effectiveness, and uniformity across the entire Federal Government.

PROBLEM STATEMENT:

The current provisioning process is constrained by inefficiencies that can impact readiness and fiscal responsibility. A few of the core issues are **lack of speed and inconsistent standards**.



Standardization

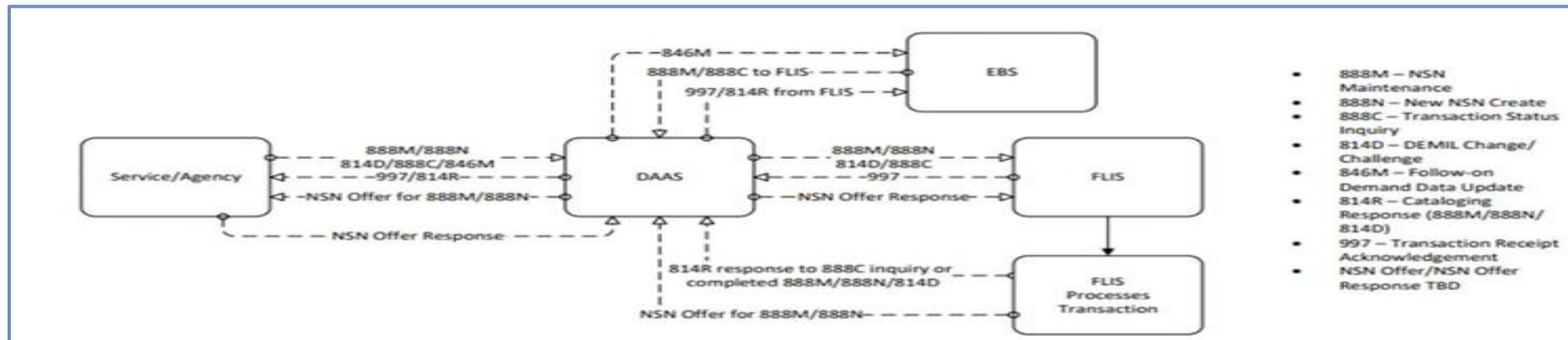
Based on a trusted baseline, the DLMS connects the JLEnt by standardizing business processes, procedures, and electronic data formats.

DLMS transactions have been created to connect service data to the Federal Catalog to expedite processing and standardization:

- DLMS 888M: Cataloging Item Maintenance
- DLMS 888N: Cataloging New Item Implementation Convention

Creating DLMS support the modernization of the Federal Logistics Information System (FLIS).

The recent changes moves the DOW from a fragmented and outdated system to a unified, modern, and more efficient electronic standard for managing the immense volume of data associated with National Stock Numbers.





Standardizing Technical Data



Redefine & Standardize the Item of Supply

- Services often request a specific part number without providing complete technical data, which hinders the ability to find suitable alternatives and create broad NSNs.
- With the move to model-based engineering, the “model is the truth,” containing every characteristic.



Standardize CAD Models

- The current use of multiple, non-interoperable CAD systems creates significant challenges. It requires expensive software licenses, extensive training, and creates barriers for vendors.
- A proposed solution can be to mandate the submission of all models in a neutral format, to ensure everyone is working from the same page.



Leverage the Tech Data Management Tool (TDMT)

- The upcoming TDMT is expected to have a built-in translator, which could make the issue of multiple CAD formats obsolete.
- This has the potential to introduce new challenges related to how the military services submit data and the potential security concerns of allowing vendors access to service PLMs through the tool’s “digital twin” functionality.



Questions?