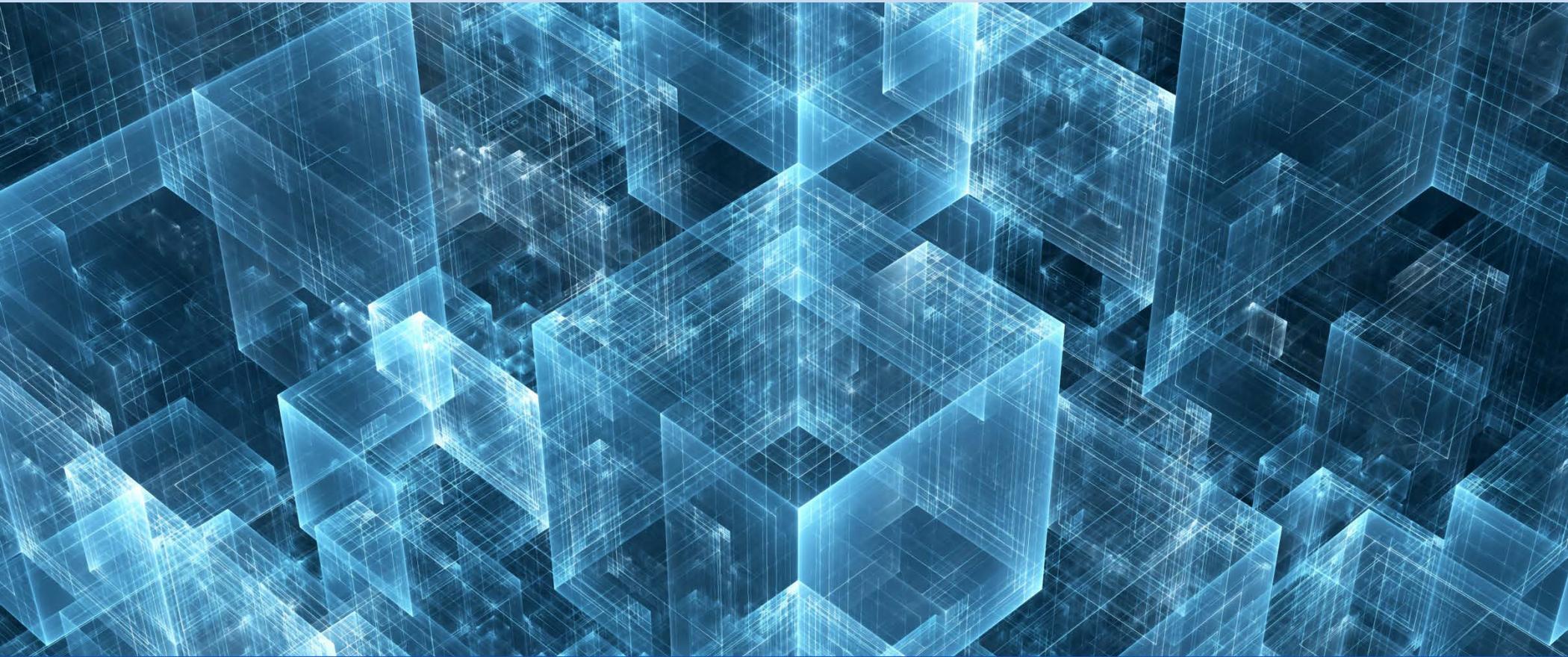


LMI Presentation on Standardized Data Exchanges



Data Transparency Town Hall
September 26, 2014

Agenda

- LMI's experience with data standards
- Benefits of using data standards
- Suggestions for using data standards to meet Data Act needs

About LMI

- Not-for-profit government consulting firm with 50+ years of experience
- Deep capabilities in financial system modernization, data standardization, budgeting, finance, acquisition, and grants
- Over 1,000 employees, 70% with advanced degrees

LMI Experience with Data Standards

Defense Logistics Agency

Hazardous Material Information Resource System
Functional Management Office
LMI added safety data sheet elements to UN/CEFACT standard.

Department of the Army

Logistics Innovation Agency
LMI identified data from process models, documented them in accordance with UN/CEFACT guidelines, and supported Army NIEM-first policy.

Center for Medicare and Medicaid Services

Healthcare Integrated General Ledger Accounting System
LMI designed, developed, and maintained HIPAA compliant EDI X12 data exchanges.

Defense Logistics Agency

Logistics Management Standards Office
LMI developed, change managed, and maintained the registry of X12 data exchanges.

Office of Management and Budget

Financial Systems Integration Office
LMI collaborated with federal agencies to develop the Common Government-wide Accounting Classification (CGAC) structure, which identifies the elements and establishes standard names, definitions, and formats, creating a data standard for classification.

Common Government-wide Accounting Classification Structure

Fund

Internal Fund Code

Treasury Account Symbol:

- Sub-level Prefix Code
- Allocation Transfer Agency Identifier
- Agency Identifier
- Beginning Period of Availability
- Ending Period of Availability
- Availability Type Code
- Main Account Code
- Sub-Account Code

Budget Account elements:

- Agency Identifier
- Budget Bureau Code
- Budget Account Code
- Budget Account Title

Fund attributes:

- Federal Account Symbol Title
- Fund Type Code
- Receipt Account Indicator
- Financing Account Code
- FACTS II Reportable Indicator
- Start Date
- Expiration Date
- Cancellation Date
- Authority Duration Code

Organization

Reporting Agency Identifier

Reporting Bureau Identifier

Internal Organization Code

Alternate Internal Organization Code

USSGL account attributes associated with Fund:

- Apportionment Category Code
- BEA Category Code
- Borrowing Source Code
- Budget Function or Subfunction Code
- Custodial or Noncustodial Code
- Definite or Indefinite Code
- Direct or Reimbursable Code

Program

Strategic Goal Code

Program Code

USSGL account attributes associated with Program:

- Apportionment Category B Program Code
- Apportionment Category B Program Text
- Program Report Category Code
- Program Report Category Text

Project Code

Government-wide Project Code

Line of Business Subfunction Code

General Accounting

USSGL Account and Extension Code

USSGL account attributes:

- Federal or Non-Federal Code
- Trading Partner Agency Identifier
- Trading Partner Bureau Identifier
- Advance Code
- Authority Type Code
- Covered or Not Covered Code
- Credit Cohort Year
- Current or Subsequent Code
- Entity or Nonentity Code
- Exchange or Nonexchange Code
- New or Balance Code
- Public Law Number
- Trading Partner Main Account Code
- Transfer To or From Code

Accounting Period

Object Class and Extension Code

Revenue Source Code

Budget Fiscal Year

Business Event Type Code

Agency Location Code

Cost

Cost Center Code

Activity Code

Critical Agency Mission Specific or Future Use

Critical Agency Mission-Specific Elements

- 5 agency-defined fields

Future-Use Elements

- 2 fields to be defined in the future

- Definitions and format agreed upon by federal agencies
- Used by DoD to establish SFIS and LOA
- Used by DHS to standardize accounting classification structure
- Incorporated in Oracle R12.1.3
- Used by Treasury to improve TAS

Benefits Experienced by LMI Clients

- DLA – through a common vocabulary, DLA shipments of hazardous materials move through customs at international borders more easily.
- Army – through a common vocabulary, Army Logistics can communicate more effectively with other Army branches.
- DLA – through a defined exchange format, electronic transactions move more efficiently through the logistics environment.
- CMS – through defined exchange formats, more than \$8 million in savings realized.

Criteria for Selecting Standard

The same standard should support collection and consumption

- Collection is primarily internal, between agencies and Treasury
- Data from recipients is primarily external
- Consumption is primarily external
 - What standards work best with tools that ingest it?
 - How can this data be combined with other data sets (e.g., employment, population)?

Treasury should define both content (e.g., define each data element included) and method (e.g., how the data looks in the exchange), but two different standards can be used.

Benefits/Drawbacks of Standards

	X12 EDI	UN/CEFACT	NIEM	XBRL	XML
Standard sets Data Exchange?	Y	N	Y	Y	Y
Standard sets Data Definitions?	N	Y	Y	Y	N
Robust Governance?	Y	Y	N	Y	N
Financial Domain Defined?	Y	Y	N	Y	N
International?	N	Y	N	Y	Y
Commercial?	Y	Y	N	Y	Y
Widely used?	Y	Y	N	Y	Y

Suggested Approach

Leverage existing financial transactions:

- Use EDI X12 transactions to the extent they meet data needs
 - There are hundreds of transactions already defined
 - Example: 850 Award
 - Update implementation conventions to leverage CGAC definitions
 - Develop new formats, only if required
- Use XBRL where subtotals and non-government communication are desired
 - There are hundreds of transactions already defined
 - Update XBRL documentation to leverage CGAG definitions
 - Develop new formats only if required

Suggested Approach

- **Submit US Treasury data definitions and exchange formats to other appropriate governance bodies**
 - Use the structure of existing governance bodies to support publication and communication of the standards
 - NIEM for interim development – the finance domain has yet to be developed
 - UN/CEFACT for long term, structured governance with international visibility

Contacts

- Caroline Nelson cnelson@lmi.org
- Carol Christian cchristian@lmi.org
- Delta Pelgrim dpelgrim@lmi.org