DATA Act Information Model Schema (DAIMS) Version 1.0 Briefing

May 4, 2016
The purpose of the DATA Act is to establish government-wide financial data standards and increase the availability, accuracy, and usefulness of Federal spending information.
DATA Act Requirements

Expanded data reporting on USAspending.gov for agency expenditures:

• Appropriations Account
  o Budget authority appropriated
  o Obligation
  o Outlay
  o Unobligated balance
  o Other budgetary resources

• Program Activity & Object Class
  o Obligation
  o Outlay

Link the financial and award data.
The DATA Act Schema provides a standardized definition and conceptual model for the information relevant to the domain and public reporting of U.S. Federal spending.

The Schema informs:
- How data providers select and organize information to submit
- What information is stored and how it is related
- How consumers can access and interpret information
DATA Act Schema Components

- **Information Flow** – provides an overview of the reporting timeframes and sources of the data.

- **Reporting Submission Specification (RSS)** – includes a listing of the data elements with specific instructions for federal agencies to submit content in the appropriate format.

- **Interface Definition Document (IDD)** – contains a listing of the elements, with supporting metadata to understand what data will be pulled from government-wide systems and from agency financial assistance systems.

- **DAIMS Diagrams** – visual representations of how the data elements from the RSS and IDD fit together in context.

- **Online Data Dictionary** – a comprehensive list of data elements with definitions and minimal metadata, like definition and data category.

- **XBRL Schema Files** – machine-readable version of the data standard that includes accounting-related and award-related content.
Information Flow

Additional Future Reporting Workflow
Quarterly Reporting – DATA Act

Existing Reporting Workflow
Daily/Bi-weekly Reporting - FFATA

Agencies
Financial System(s)

Award Linkage

Awards System(s)

DATA Act Broker
Agency Uploaded Data

In accordance with SF 133/OMB Circular A-11/USGL

Defined in the Reporting Submission Specification (RSS)

(A) Appropriations Account
(B) Object Class and Program Activity
(C) Award Financial

Broker Extracted Data
Award and Awardee Attributes

(D1) Award and Awardee Attributes (Procurement)
(D2) Award and Awardee Attributes (Financial Assistance)

(E) Additional Awardee Attributes

(F) Sub-award Attributes

Validations
Field level for A, B, and C, Cross validation for A to F

Agency Certify Data

Public Website
Public Website – DATA Act Quarterly Reporting

Public Website – Daily/Twice Monthly Data Reporting

FPDS

Existing format; Daily

New DATA Act Format; Twice Monthly

FSRS

SAM (Highly Compensated Officer Data)

See note

Note: For May 2017 implementation, D1 will be extracted from the USAspending site which pulls data from FPDS daily. D1 will be pulled from FPDS directly in the long term.
The RSS contains prescriptive guidance to report appropriations account, object class, program activity, and award financial data.

The RSS includes three files that the agencies will submit to Treasury’s Broker:

- File A – Appropriations Account Detail
- File B – Object Class and Program Activity Detail
- File C – Award Financial Detail
The Interface Definition Document (IDD) provides an overview of the award specific data elements and explains how the data will be reported or collected.

The IDD is based on the Data Model (DAIMS) v1.0 and features the elements related to:

- File D1 – Award and Awardee Attributes (Procurement)
- File D2 – Award and Awardee Attributes (Financial Assistance)
- File E – Additional Awardee Attributes
- File F – Sub-award Attributes
DATA Act Element Relationships

**Account Data**
(All Federal Spending)

(A) Appropriations Account
- **Level:** Treasury Account Symbol (TAS)
- **Reporting cadence:** Quarterly
- **Source:** Agency financial management systems

- **Example elements:**
  - Budget authority appropriated (amount)
  - Unobligated balance (amount)
  - Amount of other budgetary resources

(B) Object Class and Program Activity
- **Level:** TAS & program activity & object class
- **Reporting cadence:** Quarterly
- **Source:** Agency financial management systems

- **Example elements:**
  - Obligated amount (by program activity & object class)
  - Outlay (gross)

**Award Data**
(procurement and financial assistance)

(C) Award Financial
- **Level:** TAS & object class & award ID
- **Reporting cadence:** Quarterly
- **Source:** Agency financial management systems

- **Example elements:**
  - Award linkage
  - Transaction obligated amount
  - TAS
  - Object class
  - Program activity code (optional)

(D1) Award and Awardee Attributes (Procurement)
(DATA Act Broker Extract: Quarterly)
- **Level:** Linked at award document level (includes award modifications)
- **Reporting cadence:** Quarterly extraction from FPDS by data broker; Daily submission to FPDS (in existing format)
- **Source:** FPDS/agency procurement management systems

- **Example elements:**
  - Awardee/recipient unique identifier
  - Award characteristics information
  - Awarding entity information
  - Award amount information
  - Awardee/recipient legal entity name and address

(D2) Award and Awardee Attributes (Financial Assistance)
(DATA Act Broker Extract: Quarterly)
- **Level:** Linked at award document level (includes award modifications)
- **Reporting cadence:** Quarterly extraction from ASP by data broker; Bi-weekly submission to ASP (in new format)
- **Source:** ASP/agency financial assistance management systems

- **Example elements:**
  - Awardee/recipient unique identifier
  - Award characteristics information
  - Awarding entity information
  - Award amount information
  - Awardee/recipient legal entity name and address

(E) Additional Awardee Attributes
(DATA Act Broker Extract: Quarterly)
- **Level:** Awardee/Recipient Unique Identifier
- **Reporting cadence:** Quarterly extraction from SAM by data broker
- **Source:** SAM (Highly Compensated Officer Data)

- **Example elements:**
  - Awardee/recipient top 5 highly compensated officers

(F) Sub-award Attributes
(DATA Act Broker Extract: Quarterly)
- **Level:** Award ID & sub-award number
- **Reporting cadence:** Quarterly extraction from FSRS by data broker
- **Source:** FSRS

- **Example elements:**
  - Sub-award number and amount
DAIMS Diagrams Example

File A - Appropriations Amount

Legend

- Conceptual Model Container
- Identifying Element
- Attribute
- Data Point
- Data Point With Context
- Date Context
DATA Act Broker

Inbound API

Web Interface

Outbound API
(standardized, validated data)

Agency Users

- Links
- Validates
- Standardizes

DATA Act Broker

Public Users

USAspending.gov
Federal Agency Next Steps

- Update the mapping between agency data to the DATA Act reporting requirements
- Understand/inventory where data (or gaps) exist against the DATA Act reporting requirements
- Close gaps/capture data required in the DATA Act reporting requirements
- Ensure data is complete, accurate, and assess for overall data quality
- Prepare and test linked data from source systems
- Fix incorrect data in government-wide source systems (e.g. FPDS, ASP, SAM, FSRS)
For More Information

https://fedspendingtransparencency.github.io/