

DATA Act Information Model Schema (DAIMS) v2.2

Release Notes

June 3, 2022

DAIMS v2.2 is a minor release that improves the data model in several important respects:

1. integrating the finalized requirements of OMB M-22-02
2. addressing two GAO audit findings
3. requiring that several elements that are currently optional be reported in the future, including two elements that will ensure that award-level outlays are not overstated on USAspending.gov
4. and adding four validation rules and removing two now-redundant validation rules

Beyond these changes, this release makes various other fixes and enhancements, such as providing additional detail on data provenance, including longer descriptions of domain values, adding a Data Type column to the IDD to ease the ingest process, clarifying data element instructions and language throughout, and fixing several typographical errors.

Agencies should review the change logs of the Reporting Submission Specifications (RSS), Interface Definition Document (IDD), Validation Rules, and Practices and Procedures for specific line-item details. These changes have been presented to the monthly CFOC Leveraging Data as a Strategic Asset (LDASA) DAIMS Working group throughout the past year and their valuable input and feedback have been incorporated into this release.

DAIMS v2.2 Release Implementation Timelines:

- **June 2022:** A12, FABS39.1, FABS39.3, FABS41.1, FABS41.2, and FABS41.8 implemented in the Broker per their v2.2 text.
 - For A12, this is occurring in June because we are catching up with SF 133 changes that are already in effect for FY22.
 - For the FABS rules, this is occurring in June because it will not cause agencies to experience additional warnings/errors (in fact they will run into fewer once the change is implemented) and because agencies are actively attempting to use these codes already to capture PPOp data at a higher level of accuracy but are being prevented by the current ruleset.
- **October 1st, 2022:** DAIMS v2.2 takes effect for FY23 data collection and reporting, except where otherwise noted here. DABS changes for v2.2 will be implemented in the Broker in November 2022 after the FY22 P12 reporting window closes. The small number of v2.2 FABS changes will already be in effect in June of 2022, so there are no FABS Broker changes on October 1st, 2022.
- **October 1st, 2023:** *FundingOpportunityNumber* and *FundingOpportunityGoalsText* become required for FY24 FABS reporting for competitive, discretionary grants and cooperative agreements as a matter of OMB policy (see OMB M-22-02) and as prefigured in DAIMS v2.1. As of now, this cannot be enforced by the validation rules given that OMB has not updated the *AssistanceType* list to include competitive or discretionary flags.
- **FY25 P02 Reporting in December 2024:** USSGL487200 and USSGL49720 in File C become Conditionally Required for FY25 reporting, with the 'condition' being that the row is a non-TOA (balance) row.

Changes from draft version based on OMB and Agency Feedback

1. Adds additional updates for Primary Place of Performance elements to include support for Native American off-reservation land trust/Native Hawaiian homeland trust city codes with the #####T format to the RSS, IDD, and Practices and Procedures.
2. Updates P&P guidance for numeric data fields and validation rule FABS 46.1 to warning to be consistent with other FABS rule treatment of 0 versus blank usage. Note that it is still a long-term goal for us to move each of these rules to a place where they do not allow 0 in cases where no value should logically be provided.
3. Provides additional clarification in the RSS instructions for GrossOutlayAmountByAward_CPE.
4. Updates Solicitation Date definition based on FPDS data dictionary.
5. Clarifies loan subsidies by providing caveats as to the relative timing of these effects as well as where agencies can go for more guidance on capturing loan subsidy costs appropriately.
6. Removes proposed change to File A validation rule errors being relaxed to warnings for TAS that are unable to be corrected in GTAS due to timing limitations. Instead, these File A validations will remain fatal as they are today, to maintain alignment with GTAS budgetary edits and validations.

Changes impacting DAIMS Reporting Submission Specification (RSS)

1. Changes to Required/Optional Status
 - a. Updates 'Required/Optional' value in File A for *BudgetAuthorityUnobligatedBalanceBroughtForward*, *OtherBudgetaryResourcesAmount*, *ContractAuthorityAmountTotal*, *BorrowingAuthorityAmountTotal*, and *SpendingAuthorityFromOffsettingCollectionsAmountTotal* from 'Conditional per Validation Rule' to 'Required'. Based on analysis of agency reporting, these elements are being consistently submitted by agencies, so this will not represent an increase in agency burden but will allow simplification of the validation rules surrounding these elements and make it more obvious that complete data is being provided by agencies.
 - b. Updates 'Required/Optional' column for USSGL487200 and USSGL49720 in File C to indicate that these elements will be Conditionally Required starting in FY25, with the 'condition' being that the row is a non-TOA (balance) row. Put another way: if the row features an outlay balance, it must also provide these two fields. The reason for this change is to better comply with OMB's outlay reporting requirement in M-20-21, since without these two fields outlays are overstated on USAspending for any awards that include prior year deobligations that affect outlays.
2. Changes to Instructions
 - a. Clarifies language of current RSS instructions that downward adjustments for prior years should not be included in the summary obligation and outlay elements in Files A, B, and C. This is a clarification of existing guidance rather than a new requirement.
 - b. Modifies instructions in File A for *AdjustmentsToUnobligatedBalanceBroughtForward_CPE* to include SF 133 line 1066. This aligns File A with changes made in the SF 133 that expands the line calculation for this element. Rule A12 and the Broker-generated File A will also be updated to reflect this change in FY22 Period 08. Note: we are aware of one agency impacted by this change.

- c. Clarifies instructions in File B for internal consistency regarding the referenced breakdown by TAS, BOC, PA, D/R, and DEFC. This does not represent any change to guidance, only clarifying the breakdown for consistency across all elements in File B.
 - d. Updates instructions replacing “SF 133” with “GTAS SF 133” for 17 elements to provide clarity as to the source file being directly validated against.
 - e. Updates instructions for *GrossOutlayAmountByAward_CPE* to clarify that subsidy costs reported in File C should also be captured in this data element. These requirements are described in greater detail in P&P 1.3.4.1.
3. Other Minor Updates and Fixes
- a. Fixes File C grouping applied to USSGL498200 to the correct one.
 - b. Updates/adds domain values for DEFC to align with new codes published on the Disaster and Emergency Funding Tracking Dashboard page on MAX. This change also adds a placeholder with link to MAX to accommodate future DEFC values.
 - c. Fixes oversight from DAIMS V2.1 where *ActionType* was not moved from ‘Conditional per Validation Rule’ to ‘Required’ in the RSS even though it was made a required field in the Validation Rules for that release. As such, this does not represent a change to current requirements, only a correction to the RSS documentation.
 - d. Updates the domain value Code Source column for *ProgramActivityCode* and *ProgramActivityName* to clarify that codes can be submitted that aren’t on the official list, since only a warning is triggered when this occurs.
 - e. Updates the domain value Code Source and Code Description for several Primary Place of Performance elements to clarify that tribal subdivision city codes (of the format TS####) and Native American off-reservation land trust/Native Hawaiian homeland trust city codes (of the format #####T) will now be accepted within the PlaceOfPerformanceCode when it is in 'city-wide' format. Added a new row to characterize the XXTS#### and XX#####T PPOPCode formats. Also clarified which city codes we accept from within the National Federal Codes source file, and that they are only guaranteed to be unique when combined with the relevant state code.
 - f. Updates the Information Flow Diagram to reference DAIMS instead of Schema to be consistent with other DAIMS documents and references.

Changes impacting DAIMS Interface Definition Document (IDD)

1. Adds ‘Data Type’ column to D1, E, and F along with appropriate values. Changed column name in D2 from ‘Valid Data Type to ‘Data Type’ as well, for consistency. Updated the IDD Overview Tab accordingly. The Data Type column was requested by agencies that programmatically ingest the DABS files into their systems.
2. Other Minor Updates and Fixes
 - a. Updates Information Flow Diagram to reference ‘DAIMS’ instead of ‘Schema’ to be consistent with other DAIMS documents and references.
 - b. Updates IDD Overview tab to include basic information about the Domain Values tab
 - c. Removes “-NG” references from “FPDS” in “Extraction Content Detail section of the IDD Overview tab for Files D1, D2, E, and F to reflect that “Next Generation” is no longer part of the FPDS branding.
 - d. Updates Max Field Length for *AwardDescription* in File D1 to match the FPDS data dictionary. The Max Field Length in File D2 for this element remains 18,000. Also updated the field length of

several other elements to match that in the FPDS data dictionary. These changes do not have any practical effect on Broker functionality but are just documentation changes.

- e. Adds FPDS data dictionary long descriptions where they existed to the Domain Values 'Code Description' column to provide additional context to domain values sourced from FPDS.
- f. Updates IDD FPDS Data Dictionary element names, definitions, and domain values to align with FPDS data dictionary, including the version 1.5 changes published on March 31, 2022. For a subset of these, also updated the DAIMS data element label to match the FPDS changes: Vendor Doing As Business Name changed to Entity Doing Business As Name, Vendor Phone Number changed to Entity Phone Number, and Vendor Fax Number changed to Entity Fax Number.
- g. Adds Domain Values for *PrimaryPlaceOfPerformanceScope* as well as updating Domain Values Code Source and Code Description for several Primary Place of Performance elements for clarification.

Changes impacting DAIMS Validation Rules

1. Removes Rules
 - a. Removes rule A36, which required *BudgetAuthorityUnobligatedBalanceBroughtForward_FYB* to be populated in certain circumstances. Since this field is now required in all circumstances, this rule is redundant and is being removed.
 - b. Removes rule A16, which triggered a warning if FYB elements were not provided under specific conditions. Since these elements are now required in all circumstances, this rule is redundant and is being removed.
2. New Rules
 - a. Adds B25 warning that states: "*ObligationsIncurredByProgramObjectClass_CPE* = value for GTAS SF 133 line #2190 for the same reporting period for the TAS and DEFC combination." This rule is analogous to B22 (which compares each TAS + DEFC outlay total in File B to that in GTAS), but instead compares TAS + DEFC obligation totals between File B and GTAS. This will increase data quality within the File B obligation data.
 - b. Adds B26 warning which states: "*DeobligationsRecoveriesRefundsOfPriorYearByProgramObjectClass_CPE* = value for GTAS SF 133 lines #1021+1033 for the same reporting period for the TAS and DEFC combination." This rule is analogous to B22 (which compares each TAS + DEFC outlay total in File B to that in GTAS), but instead compares TAS + DEFC prior year deobligation totals between File B and GTAS. This will increase data quality within the File B prior year deobligation data.
 - c. Adds rule C29, which requires *GeneralLedgerPostDate* to be blank for non-TOA (balance) rows. The reason for this requirement is that the field is incompatible with non-TOA rows and so was not meaningful when provided for them. This requirement was already stated in the Instructions column for this element; the rule is just operating as an enforcement mechanism for that existing instruction.
 - d. Adds C30 to capture that *USSGL487200_DownwardAdjustmentsOfPriorYearPrepaidAdvancedUndeliveredOrdersObligationsRefundsCollected_CPE* and *USSGL497200_DownwardAdjustmentsOfPriorYearPaidDeliveredOrdersObligationsRefundsCollected_CPE* will be required for non-TOA (balance) rows starting in FY25. This is necessary to avoid overstating award-level outlays.
3. Updates Rule Functionality

- a. Updates FABS39.1, FABS39.3, FABS41.1, FABS41.2, and FABS41.8 to allow for city codes in the format TS#### to be submitted. The previous setup only allowed city codes in the ##### and #####R formats. The TS codes correspond to tribal subdivisions and are valid codes included in our source data file list for the city codes already. Also updated FABS41.1 to clarify the subset of city codes that are allowed from the source file (this was already enforced by the Broker, but just not documented in the rule text).
 - b. Updates rule A12 to add GTAS SF 133 line 1066 to the calculation for *AdjustmentsToUnobligatedBalanceBroughtForward_CPE*. This aligns with the changes in the SF 133 as to how this element should be calculated. Since this is part of the FY22 USSSGL-SF 133 crosswalk, it will be implemented immediately for FY22P08 activity reported in June.
 - c. Updates rule text of B15 so that it treats both “Q” and “QQQ” the same, to align with GTAS. This was implemented in August 2021 between cycles, so is just catching up the documentation.
 - d. Removes COVID-19 reference in rule B21 detail. This change means that the rule triggers when a TAS + DEFC combination in GTAS is missing from File B (except for when all obligation and outlay monetary amounts are zero). Previously, the rule only triggered when a TAS + COVID-19 DEFC was missing. This will improve the completeness of File B data.
 - e. Updates rule C18 to note this rule cannot trigger unless all 4 USSGL accounts have a non-null (non-blank) value provided (note that “0” is considered non-null). This change will ensure that the warnings do not trigger erroneously and penalize agencies for providing extra data. This was implemented in the Broker in December 2021, so this is just catching up the documentation.
 - f. Updates rule FABS 46.1 to warning to be consistent with other FABS rule treatment of 0 versus blank usage.
4. Minor changes that do not affect Broker functionality and should not affect agencies
- a. Updates Rule B24 to remove explicit DEFC list of values; instead, the rule simply references the authoritative source of all DEFC on OMB Max. With this change, the rule text will never be out of date between releases. Note that the validation logic will continue to be updated in the Broker itself as soon as new codes are added to the OMB MAX page.
 - b. Updates C23 and C24 to correct spelling errors.
 - c. Fixes minor grammatical typo in rule detail of FABSREQ5.
 - d. Adds “(DEFC)” to rules B21 and C25, for consistency with other rules that mention the DEFC and so that every rule that relates to it can easily be surfaced with the ‘DEFC’ string. This is just a typographical change and has no effect on rule functionality.
 - e. Updates Overview tab to reference ‘DAIMS’ instead of ‘Schema’ in Information Flow Diagram and to better explain the Rules Reference columns.
 - f. Adds periods to end of rule detail sentence for consistency in rules A2, A3, A4, A6, A7, A8, A9, A18, A24, A32, B5, B13, B14, B19, FABS3.4, FABSTYPE1, FABSTYPE2, FABSTYPE3, and FABSTYPE4.
 - g. Modifies the language in C23, C24, and FABSTYPE3 to refer to the full data element labels instead of pieces of them.
 - h. Updates rule language for fatal error rules (A30, A32, B19, B20, C28, FABS3.2, FABS45, and DABSDATETIME*) to use “must” instead of “should” for logical consistency, given that they are fatal errors. Also updated B9 and FABS45 to use ‘should’ instead of ‘must’ given that they are warnings. These do not represent changes to rule functionality, merely to language clarity and consistency.

- i. Updates rule language to refer to “GTAS SF 133” instead of “SF 133” in rules A2, A33, B14, and B15 for consistency and to provide clarity as to the source file being validated against.
- j. Adds new ‘Data Element Label’ column to the Broker Rules tab to make it easier to see all data elements affected by a rule at a glance, and updated the Rules Reference tab.

Changes impacting DAIMS Practices and Procedures (P&P)

1. Adds new section 1.3.3.1 to clarify how agency TAS ownership is determined in rule A33.
2. Updates Section 1.3.4.1 to clarify guidance on reporting positive subsidy costs in File C: namely that it should be reported in the outlay field and that any positive subsidy cost that creates a TOA line should be adding an outlay line during the same reporting period for the same total amounts.
3. Updates Section 1.4.1 to clarify that all Expired and Unexpired Expenditure TAS that are subject to SF 133 Report on Budget Execution requirements should be reported in A and B, regardless of balance and activity status.
4. Updates Section 1.4.1.3 to clarify that intragovernmental activity between agencies should not be reported in file C, since File C is only for actual awards made outside of (external to) the federal government.
5. Updates section 1.5.1 to clarify guidance on the appropriate use of 0 and blank values.
6. Updates section 1.8.4 to explain that for a rare scenario, the 12 validations that compare File A amounts directly to GTAS (A6, A7, A8, A9, A10, A11, A12, A14, A15, A22, A23, and A29) will operate as warnings instead of fatal errors to improve completeness and accuracy of data when GTAS timing issues arise. This is only for limited situations, and Treasury and OMB will track where it occurs.
7. Updates 2.1.11 to notify agencies that if they change the AwardingSubTierAgencyCode during the life of a Financial Assistance award that those transactions will be categorized as a part of separate awards for purposes of USAspending display, given the design of the unique award key. In order for these transactions to be grouped for display purposes, agencies would need to ensure that all transactions under the award have the same AwardingSubTierAgencyCode.
8. Updates 2.1.19 to address the need to split other amounts beyond FederalActionObligation and OriginalLoanSubsidyCost in a multiple Assistance Listing reporting scenario, to better clarify that reporting multiple Assistance Listings is now fully required per M-22-02, and to update the OMB memo reference to M-22-02 over the rescinded M-21-03.
9. Updates 2.1.23 to include a reference to OMB M-22-02, to clarify that FundingOpportunityNumber and FundingOpportunityGoalsText are required to be reported for competitive, discretionary grants starting on October 1st, 2023, as a matter of OMB policy, and to note that this cannot be enforced by the validation rule until updated Assistance Types are approved by OMB that include the concepts of ‘competitive’ and ‘discretionary.’
10. Updates Appendix B to add a note to refer to the RSS domain values for use of Tribal Subdivisions and Native American Reservations for Primary Place of Performance.
11. Other Minor Updates and Fixes
 - a. Removes “NG” from “FPDS-NG” throughout to reflect that “Next Generation” is no longer part of the FPDS branding per the FPDS data dictionary.
 - b. Replaces “SF 133” with “GTAS SF 133” when discussing the actual GTAS system and its SF 133 data (as opposed to the SF 133 data standard) for clarity as to the source file being validated against.

- c. Updates the list of agencies using FREC shared identifiers in Section 1.3.3 to match updated Broker functionality now that CARS has split out certain AID from previously shared identifiers, as well as to reflect adjustments to File A generation for three agencies that regularly submit TAS on behalf of small independent agencies.
- d. Updates 1.3.10 to use consistent terminology
- e. Updates 1.8.5 to add a link to the OMB MAX Collect exercise for Program Activity.
- f. Updates 1.9.3.2 to clarify that DABS publication happens monthly rather than quarterly.
- g. Updates Excel instructions in Section 2.1.15 (which provides instructions for submitting FABS files that contains special characters with proper encoding to ensure that the file is interpreted correctly) to comport with newer versions of Excel.
- h. Updates 2.1.20 to remove reference to M-21-03, since that memo was rescinded
- i. Updates *AwardDescription* max length in Appendix A table to correct a typographical error. It now matches the RSS-FABS.
- j. Updates Appendix B to note that XXTS### is now an acceptable PrimaryPlaceOfPerformanceCode format, corresponding to tribal subdivision city codes in the TS### format.