The Artificial Datasets are small, simple datasets created by the EVMS Center. The datasets contain known, expected automated DCMA EVMS Compliance Metric (DECM) results with identified trips or populations. Their primary functions are training and to test automated DECM calculations generated by software tools.

Artifacts included in the Artificial Datasets:

* Minimum required information defined in the Assumptions & Data Dictionaries Excel file
  + Accounting/Fiscal Calendar (Artifact 2), EVM System Description (Artifact 3), Cost Data Dictionary (Artifact 44), and IMS Data Dictionary (Artifact 45)
* Minimum required information included in the Cost Data Excel file
  + EV Cost Tool Data (Artifact 13), IPMR/CPR (Artifact 20), and Budget Log (Artifact 41)
  + With revision 05, an Integrated Program Management Data and Analysis Report (IPMDAR) Contract Performance Dataset (CPD) version of Artifact 13/20 is also provided
* Integrated Master Schedule (IMS) (Artifact 11)
  + Microsoft Project, Deltek Open Plan, Oracle Primavera, and IPMDAR Schedule Performance Dataset (SPD) versions

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| **Revision Table** | | |
| **Revision** | **Date** | **Description** |
| Initial | 12/1/2020 | DECMs v3.6.1 Update |
| 01 | 12/15/2020 | * Open Plan changes:   + Changed user defined fields Forecast Start and Forecast Finish to standard fields Early Start and Early Finish in the Assumptions and Data Dictionaries file and the Artificial Dataset view   + Changed calculated field Remaining Duration to standard field Computed Remaining Duration in Artificial Dataset view * 06A204b: Corrected one trip for Primavera in 2019-12 Known Trips results (Removed UID 141, added UID 120) * 06A505a: Added WP, PP, and SLPP IDs for all trips * 06A505b: Added WP, PP, and SLPP IDs for all trips * 06A506c: Corrected Open Plan and Primavera 2019-12 Known Trips results (X = 0) * 10A303a: Added PP IDs for all trips |
| 02 | 4/2/2021 | DECMs v4.0 Update   * Added 2019-10 IMS so DECM 29I401a populations can be generated for 2019-12 (2019-10 IMS is also used for 2019-11 DECMs 06A504a, 06A504b, and 06A506c) * 06A211a: Population of high float generated * 10A302a: Results added for CA-level ACWP based on CCB v4.0 change * 29I401a: Population of IMS baseline date changes generated * 2019-12 Cost data:   + Added multiple EVTs to WPs 1B1 and 4X1 due to 10A102a change   + Changed MR and UB to negative values   + Added ETC >$100 to LOE WP 5X1 due to definition of complete for LOE changing   + Added zero BAC LOE WP 5Y1 with ETC >$100 due to definition of complete for LOE changing * 2019-12 Known Trips IMS:   + Added milestones F, G, H, and I due to 06A204b change and to add milestones with EV % complete for 06A505a/06A505b   + Deleted UID 106 to create new trip type for 06A504a/06A504b   + Changed Must Finish On constraint date for UID 118 to create additional 06A506c trips * Primavera changes:   + Changed relationships to better align with Open Plan and Project in the 2019-11 and 2019-12 Known Trips IMS   + Fixed EV % Complete for UIDs 50, 84, and 86 in the 2019-12 Passing IMS * Recalculated DECMs as applicable due to CCB v4.0 or changes to the Artificial Datasets |
| 03 | 12/16/2021 | DECMs v5.0 Update   * 27A106a: Added comment indicating CAs that are excluded from the numerator but require follow-up based on assumption 4, “CAs with ACWPCUM = 0 are excluded from the numerator. If a CA is ≥ 15% complete and ACWPCUM = 0, then an investigation is warranted.” * 29I401a: Results updated based on CCB v5.0 change from sum to count and deletion of denominator * Added identification of denominator population as applicable * Expected results for Project and Open Plan are now within the same Excel file with separate tabs as necessary * Primavera schedule files and results temporarily removed |
| 04 | 03/23/2022 | Primavera schedule files re-added |
| 05 | 12/19/2022 | DECMs v6.0 Update   * The only change affecting the Artificial Datasets is the addition of automated DECM 29A501c. Results for this DECM are only provided for 2019-12 since it requires three months of EV Cost Tool data.   + The 2019-10 cost data for Known Trips is just a copy of the 2019-11 cost data   + The 2019-10 cost data for Passing is a copy of the 2019-11 cost data with any ACWP/BCWP removed from the 2019-11 period. ETC equal to BCWS was then added to the 2019-11 period. * To catch false trips/passes, $0.001 was adding to all cost elements in the cost data   IPMDAR added   * Separate results tab include for IPMDAR * The following adjustments were made to generate the IPMDAR CPD files:   + Known Trips only     - Multiple or blank WBS, OBS, and CAM assignments are not possible due to the structure of the IPMDAR CPD, therefore the correct WBS, OBS, and CAM values were used     - Multiple EVTs are not possible due to the structure of the IPMDAR CPD, so the first EVT value in the cost data was used     - Cost data without an EOC was left out of the EOC-level CPD data. The total cost aligns with the cost data, but the combined EOC-level values will be less whatever portion had a blank EOC   + All     - Dummy SLPP PPs are required to meet the IPMDAR format (e.g., SLPP 1 has a dummy PP 1SLPP); these are not treated as actual PPs for any DECMs     - The IPMDAR CPD requires that SLPPs have an OBS assignment, therefore N/A was entered * The IPMDAR SPD files align with the Open Plan IMS because the SPD format requires tasks have both baseline start and finish dates (Project allows blanks and Primavera utilizes start and finish milestones that only have baseline start or baseline finish dates) |