**5 August 2020**

Direct Care Dental Encounter Data (DED)

for the MHS Mart (M2)

(Version 1.10.00)

Future Specification

**Revision History**

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| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Originator** | **Para/Tbl/Fig** | **Description of Change** |
| 1.00.00 | 05/05/2011 | C. Kangas | * Whole document | * Initial version |
| 1.00.01 | 06/09/2011 | K. Hutchinson for W. Funk | * Table | * Added Measure Indicator column * Added Encounters * Clarified Pseudo Provider ID |
|  |  | W. Funk |  | * Separated table into a feed table and a derived field table and eliminated unnecessary columns in the derived field table. * Referenced M2 specifications for business rules on derived fields rather than re-listing them to avoid any errors or duplication of effort. * Changed scrambling to encryption * Set encounters to be “1” for all records. |
| 1.00.02 | 07/13/2011 | K. Hutchinson per J. Huber | * Table | * Merged the feed table and derived field tables back together with rules. |
| 1.01.00 | 01/24/2012 | Wendy Funk | * Tables 1 and 2 (was table 1) * Table 1 * Table 2 | * Separated feed and derived field tables per new specification guidance. * Noted that “Person ID” and other direct identifiers should only be available in the restricted universe. * Added 7 new data fields to the feed table. * Clarified that Person and Provider ID are to be encrypted. |
| 1.02.00 | 05/22/2012 | K. Hutchinson per J. Huber | * Table 1 and 2 | * Remove encryption of Provider ID. |
| 1.03.00 | 05/31/2012 | W. Funk | * Table 1 and 2 | * Re-encrypted the Provider ID (SSN) since it is PII. * Added number of procedures. |
| 1.04.00 | 08/21/2012 | W. Funk | * Table 1 | * Updated field length for Encounter Type and Provider Type |
| 1.05.00 | 10/04/2012 | W. Funk | * Section X | * Added a quality review requirement. |
| 1.06.00 | 04/09/2013 | K. Hutchinson for W. Funk | * Table 2 | * Modified ACV Group for ACV R and V |
| 1.07.00 | 02/07/2017 | C. Kangas | * Table 2 | * Added a HOVER requirement on the Number of Encounters measure. |
| 1.08.00 | 04/12/2017 | C. Kangas | * Table 1 | * Added the CDT Modifier field. |
| 1.08.01 | 08/21/2017 | B. Ross for W. Funk | * Table 1      * Table 2 | * Added numerous new fields related to NDAA and region transition * Hid region fields |
| 1.09.00 | 04/27/2020 | C. Kangas | * Table 1 * Table 2 | * Added DTF Name and CLV fields. * Renamed Number of Procedures to Number of Line Items |
| 1.10.00 | 08/05/2020 | C. Kangas | * Table 1 | * Changed length of DTF Name |

# Direct Care Dental Encounter Data (DED)

1. Source: The Direct Care Dental Encounter Data (DED) is provided to M2 by the MDR.

The U.S. Army Dental Command (DENCOM) is responsible for the operation of the Corporate Dental System (CDS) data repository. CDS is used to collect, process, and archive dental workload, readiness, and patient scheduling data for active duty service members (ADSMs) treated at Army and Air Force Dental Treatment Facilities (DTF). CDS data is being sent to the MDR for incorporation into tri-Service MDR DED files. The Navy has historically used a separate dental system (DENCAS) that did not capture data at the level of detail to support inclusion in the MDR DED file. Starting in FY15, the Navy began transitioning all its DTFs to use the CDS to capture workload. MHS GENESIS data through the Dentrix application are also being sent to CDS and are included in the CDS data feeds to the MDR.

1. File Format: Regardless of the length specified, all fields are variable length and delimited by “|”. A null field will simply have an end of field delimiter “|” immediately following the previous field’s end of field delimiter.
2. File Content: One feed file for each fiscal year processed in the MDR is provided to the M2 each month, with each feed file representing a complete replacement for the fiscal year.
3. Organization and Batching: Each file consists of all records for all fiscal years being updated in MDR.
4. Frequency of Processing: Monthly refreshes.
5. Filters: All DED records are provided to M2, and no additional filters are applied.
6. Updating the Master Tables: M2 tables are updated by removing records whose fiscal year match what is in the monthly feed file (can be obtained either from the feed file names[[1]](#footnote-1), or from the FY data element in the feeds), and then appending the new feeds.
7. Feed Record Layout and Content. Table 1 contains the layout and extraction rules for the feed to M2.

**Table 1: M2 Direct Care Feed Layout**

| **M2 Data Element** | **Format** | **SAS Name from MDR** | **Processing Rule/Comments** |
| --- | --- | --- | --- |
| ACV | $1 | acv | No transformation. |
| Beneficiary Category | $3 | bencat | No transformation. |
| Procedure Code | $5 | cdt | No transformation. |
| CM | $2 | cm | No transformation. |
| Ben Cat Common | $1 | comben | No transformation. |
| CY | $4 | cy | No transformation. |
| Beneficiary Zip Code | $5 | deerszip | No transformation. |
| Tmt DMIS ID | $4 | dmisid | No transformation. |
| Dental Readiness Classification | $1 | drc | No transformation. |
| Sponsor Service | $1 | dsponsvc | No transformation. |
| Sponsor Service, Aggregate | $1 | dsvcagg | No transformation. |
| Person ID | $10 | edipn | No transformation. Only visible in restricted universe. |
| Encounter Date | YYYYMMDD | encdate | No transformation. |
| Ethnicity | $1 | ethnic | No transformation. |
| FM | $2 | fm | No transformation. |
| FY | $4 | fy | No transformation. |
| Provider Specialty, HIPAA | $10 | hipaaspec | No transformation. |
| Last Exam Date | YYYYMMDD | lastexam | If the field is coded with all zeros convert the date to a null value (blank) else no transformation to the field. |
| Medicare Eligibility | $1 | medflag | No transformation. |
| Provider NPI | $14 | npi | No transformation. |
| Group NPI | $14 | npigroup | No transformation. |
| Person Association Reason Code | $2 | parc | No transformation. |
| Age | 3. | patage | No transformation. |
| Date Of Birth | yyyymmdd | patdob | No transformation. |
| Gender | $1 | patsex | No transformation. |
| Provider ID | $9 | provid | No transformation. Only available in the restricted universe. |
| Provider Specialty | $3 | provspec | No transformation. |
| Work RVU | 7.2 | rvu | No transformation. |
| Sponsor ID | $9 | sponssn | No transformation. Only available in restricted universe. |
| Age Group Common | $1 | N/A | Derived in MDR during preparation of M2 Feed, based on age. A: [0-4], B: [5-14], C: [15-17], D: [18-24], E: [25-34], F: [35-44], G: [45-64], H: [65-69], I: [70-74], J: [75-79], K: [80-84], L: 85+. Set to Z if blank. |
| Age Group Code | $1 | agegrp | No transformation. |
| Enrollment Site | $4 | denrsite | No transformation. |
| Record ID | $36 | record\_id | No transformation. |
| Line Item Number | 3 | linenum | No transformation. |
| Number of Services | 5 | svcs | No transformation. |
| Dental Weighted Values | 5.2 | dwv | No transformation. |
| Encounter Type | $6 | enc\_type | No transformation. |
| CDA Site Identifier | $6 | TBD | No transformation. |
| Provider Type | $3 | prov\_type | No transformation. |
| Procedure Code Modifier | $2 | cdtmod | No transformation. |
| Enrollment Group | $3 | enr\_grp | No transformation. |
| Enrollment PCM Type Code | $1 | pcm\_type | No transformation. |
| Beneficiary T3 Region | $2 | ben\_reg\_t3 | No transformation. |
| Beneficiary T2017 Region | $2 | ben\_reg\_t17 | No transformation. |
| Enrollment Site T3 Region | $2 | enr\_reg\_t3 | No transformation. |
| Enrollment Site T2017 Region | $2 | enr\_reg\_t17 | No transformation. |
| Treatment DMIS ID T3 Region | $2 | mtf\_reg\_t3 | No transformation. |
| Treatment DMIS ID T2017 Region | $2 | mtf\_ref\_t17 | No transformation. |
| ACV Group | $15 | acvgroup | No transformation in M2. In MDR, when preparing the M2 feed map  “PR” to “Prime”  “DP” to “Designated Provider”, “OP” to “Overseas Prime”  “PL” to “Plus”  “O” to “Other”  “R” to “Reliant” |
| DTF Name | $100 | dtf | No transformation. |
| Composite Lab Value | 7.2 | clv | No transformation. |

1. Appended Fields: The M2 has many data fields that are viewed in the M2 either by joining to another table, or through data element additions made during loading of the data. Table 2 describes these elements and the rules to create them.

**Table 2: Appended/Inferred data elements visible in M2 but not in the data feed from the MDR**

| **M2 Data Element** | **Processing Rule/Comments** |
| --- | --- |
| ACV Group | HIDE If ACV in (A, E, H or J) then set to “Prime”, else if ACV in (B, F) then set to “Overseas Remote”, else if ACV in (G, L) then set to “Plus”, else if ACV is U then set to “Desig Prov”, else if ACV in (R, V) then set to “Other”, else if ACV in (M, Q) then set to “Reliant”, else if Bencat Common = 4 then set to “Reliant”, else set to “Other”. |
| Reservist Status Code | Join based on SSN and encounter date from DED data between begin and end dates of reservist status in Reservist Table. If no match found, leave blank. See Reservist Specification for more information. |
| Special Operations Code |
| MTF Service Area | Aggregate sponsor service in the DED data so that A: Army, F: Air Force, N: Navy/Marines and O: Others. Then match DED data (Beneficiary zip code, FY/FM and the just-aggregated sponsor service) to the Market Table (zip code, FY/FM and service) to retrieve the required data element. If no match found, leave blank. See Market Table specification for more information. |
| PRISM Area ID |
| Catchment Area ID |
| Market Area ID | Match DED data by beneficiary zip code, FY and FM to the Market Table by zip code, FY and FM where the service is O to retrieve the required data element. If no match found, leave blank. See Market Table specification for more information. |
| Prime Service Area |
| TPR Flag |
| Beneficiary HSSC Region | HIDE See M2 Omni-CAD specification for business rules. |
| Beneficiary Region | HIDE See M2 Omni-CAD specification for business rules. |
| Tmt DMIS ID Name | Match DED data by Tmt DMISID and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| Tmt DMIS ID Command |
| Tmt DMIS ID DHP Code |
| Tmt DMIS ID HSSC Region | HIDE See DMIS ID specification for more information. |
| Tmt DMIS ID Military Service | Match DED data by Tmt DMISID and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| Tmt DMIS ID MSMA |
| Tmt DMIS ID Region | HIDE See DMIS ID specification for more information. |
| Tmt Parent DMIS ID |
| Tmt Parent DMIS ID Name | Match DED data by Tmt parent DMISID and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| Enrollment Site Name | Match DED data by enrollment site and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| Enrollment Site Command |
| Enrollment Site DHP Code |
| Enrollment Site HSSC Region | HIDE See M2 DMIS ID Index specification for business rules. |
| Enrollment Site Military Service | Match DED data by enrollment site and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| Enrollment Site MSMA |
| Enrollment Site Region | HIDE See M2 DMIS specification for business rules. |
| Enrollment Site Parent | Match DED data by enrollment site and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| Enrollment Site Parent Name | Match DED data by enrollment parent DMISID and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| MTF Service Area Name | Match DED data by MTF Service Area and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| Catchment Area Name | Match DED data by Catchment Area ID and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| Catchment Area Command |
| Catchment Area Military Service |
| Catchment Area MSMA |
| PRISM Area Name | Match DED data by PRISM Area ID and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| PRISM Area Command |
| PRISM Area Military Service |
| PRISM Area MSMA |
| Provider Catchment Area Name | Match DED data by Provider Catchment Area ID and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| Provider Catchment Area MSMA |
| Provider Catchment Area HSSC Region |
| HIDE See M2 MIS ID Index specification for business rules. |
| Provider PRISM Area Name | Match DED data by Provider Catchment Area ID and FY to the DMIS ID Index table (DMISID, FY) to retrieve the required data element. If no match found, leave blank. See DMIS ID specification for more information. |
| Provider PRISM Area MSMA |
| Pseudo Sponsor ID | Confidential algorithm to encrypt sponsor ID. Must be consistent with all other M2 tables. |
| Pseudo Person ID | Confidential algorithm to encrypt Person ID. Must be consistent with all other M2 tables. |
| Pseudo Provider ID | Confidential algorithm to encrypt provider ID. |
| Number of Encounters (see hover) | Count of unique Record IDs. Hover should read “This field is not correct if your query includes more than one row per Record ID.” |
| Ever Deployed Flag (OCO) | Match to CTS by sponssn if the DED encounter date is between the CTS begin and end dates. If no match, set to N, else set to Y. |
| Days Since Most Recent OCO Deployment (Dimension) | Match to CTS by sponssn if the DED encounter date is between the CTS begin and end dates. If Deployment Record Flag = ’D’ then set to 0.  If Deployment Record Flag = “B” set to DED encounter date – CTS begin date. If no matching record set to 0. |
| Days Since Return from OCO Deployment (Measure) | Match to CTS by sponssn if the DED encounter date is between the CTS begin and end dates. If Deployment Record Flag = ’D’ then set to 0.  If Deployment Record Flag = “B” set to DED encounter date – CTS begin date. If no matching record set to 0. |
| Cumulative OCO Deployed Days | Match to CTS by sponssn if the DED encounter date is between the CTS begin and end dates. If Deployment Record Flag = ”D” and Cumulative OCO Deployed Days is null then set to DED Encounter Date – CTS Begin Date;  Else if Deployment Record Flag = “D” then set to Cumulative OCO Days Deployed + (DED Encounter Date – CTS Begin Date);  Else if Deployment Record Flag = “B” then set to Cumulative OCO Days Deployed;  If no matching record, set to null. |
| OCO Deployed Flag | Match to CTS by sponssn if the DED encounter date is between the CTS begin and end dates. If Deployment Record Flag = “D”, set to ‘Y’; else (including if no matching record) set to ‘N’ |
| IIW Flag | Match to IIW table based on person ID. If a match is found set to “Y”, else set to “N”. |
| Beneficiary First Name | Match to Master Person Index based on person ID to retrieve the required element. Only visible in restricted universe. |
| Beneficiary Last Name |
| Beneficiary Name |
| ~~Number of Procedures~~ Number of Line Items | Set to 1 for every row |

1. Quality Review

* Record counts should be match those contained in the transmittal letter representing each feed, which will not be feed frequencies, but frequencies from the MDR files that were used to prepare each feed.
* The first and last 10 records in the files should be visually inspected to ensure proper formatting after loading
* The number of encounters should be tabulated and should always be >0

1. File Location

Health Care Services / Dental / Direct Care Dental

1. Special Outputs: N/A

1. The feeds will use a standardized naming convention. We propose mdr.ars.ded.<fy>.dyymmdd.txt where the FY represents the year of data in the feed file, and yymmdd represent the processing date. [↑](#footnote-ref-1)