

21 January 2025

**Direct Care Dental Encounter Data (DED)
for the MHS Mart (M2)
(Version 1.10.01)**

Future Specification

Revision History

Version	Date	Originator	Para/Tbl/Fig	Description of Change
1.00.00	05/05/2011	C. Kangas	• Whole document	<ul style="list-style-type: none"> Initial version.
1.00.01	06/09/2011	K. Hutchinson for W. Funk	• Table	<ul style="list-style-type: none"> Added Measure Indicator column. Added Encounters. Clarified Pseudo Provider ID.
		W. Funk	•	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Merged the feed table and derived field tables back together with rules.
1.01.00	01/24/2012	Wendy Funk	<ul style="list-style-type: none"> Tables 1 and 2 (was table 1) Table 1 Table 2 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Remove encryption of Provider ID.
1.03.00	05/31/2012	W. Funk	• Table 1 and 2	<ul style="list-style-type: none"> Re-encrypted the Provider ID (SSN) since it is PII. Added number of procedures.
1.04.00	08/21/2012	W. Funk	• Table 1	<ul style="list-style-type: none"> Updated field length for Encounter Type and Provider Type.
1.05.00	10/04/2012	W. Funk	• Section X	<ul style="list-style-type: none"> Added a quality review requirement.
1.06.00	04/09/2013	K. Hutchinson for W. Funk	• Table 2	<ul style="list-style-type: none"> Modified ACV Group for ACV R and V.
1.07.00	02/07/2017	C. Kangas	• Table 2	<ul style="list-style-type: none"> Added a HOVER requirement on the Number of Encounters measure.
1.08.00	04/12/2017	C. Kangas	• Table 1	<ul style="list-style-type: none"> Added the CDT Modifier field.
1.08.01	08/21/2017	B. Ross for W. Funk	<ul style="list-style-type: none"> Table 1 Table 2 	<ul style="list-style-type: none"> Added numerous new fields related to NDAA and region transition. Hid region fields.
1.09.00	04/27/2020	C. Kangas	<ul style="list-style-type: none"> Table 1 Table 2 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Changed length of DTF Name
1.10.01	1/21/2025	W. Funk	• Table 1 and 2	<ul style="list-style-type: none"> Added and deleted fields.

Direct Care Dental Encounter Data (DED)

- I. 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). MHS GENESIS data through the Dentrix application are also being sent to CDS and are included in the CDS data feeds to the MDR.
- II. 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.
- III. 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.
- IV. Organization and Batching: Each file consists of all records for all fiscal years being updated in MDR.
- V. Frequency of Processing: Monthly refreshes.
- VI. Filters: All DED records are provided to M2, and no additional filters are applied.
- VII. 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 names¹, or from the FY data element in the feeds), and then appending the new feeds.
- VIII. 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. Add detail description object.
Procedure Code	\$5	cdt	No transformation.
CM	\$2	cm	No transformation.
Ben Cat Common	\$1	comben	No transformation. Add detail description object.
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.

¹ The feeds will use a standardized naming convention. We propose mdr.ars.ded.<fy>.dyymmd.txt where the FY represents the year of data in the feed file, and yymmd represent the processing date.

M2 Data Element	Format	SAS Name from MDR	Processing Rule/Comments
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	yyymmdd	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	densite	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_t3_reg	No transformation. No longer required as of January 2025.
Beneficiary T2017 Region	\$2	ben_t17_reg	No transformation.
Enrollment Site T3 Region	\$2	enr_t3_reg	No transformation. No longer required as of January 2025.
Enrollment Site T2017 Region	\$2	enr_t17_reg	No transformation.
Treatment DMIS ID T3 Region	\$2	mtf_t3_reg	No transformation. No longer required as of January 2025.
Treatment DMIS ID T2017 Region	\$2	mtf_t17_reg	No transformation.

M2 Data Element	Format	SAS Name from MDR	Processing Rule/Comments
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.
Beneficiary T5 Region	\$2	ben_t5_reg	No transformation.
Enrollment Site T5 Region	\$2	enr_t5_reg	No transformation.
Treatment DMIS ID T5 Region	\$2	mtf_t5_reg	No transformation.

IX. 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”. No longer required as of January 2025.
Beneficiary HSSC Region	HIDE See M2_Omni_CAD specification for business rules.
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	Match to Master Person Index based on person ID to retrieve the required element. Only visible in restricted universe.
Beneficiary Name	Match to Master Person Index based on person ID to retrieve the required element. Only visible in restricted universe.
Beneficiary Region	HIDE See M2_Omni_CAD specification for business rules.
Catchment Area ID	Match to M2 Market Table by FY, FM and Beneficiary Zip code and Retrieve Catchment Area ID where service = “O”.
Catchment Area Name	Match to DMIS ID Table by FY and catchment area ID and retrieve name.
Catchment Area Command	Match to DMIS ID Table by FY and catchment area ID and retrieve command.
Catchment Area Military Service	Match to DMIS ID Table by FY and catchment area ID and retrieve military service

M2 Data Element	Processing Rule/Comments
Catchment Area MSMA	Match to DMIS ID Table by FY and catchment area ID and retrieve MSMA. Hide field.
Catchment Area Network	Match to DMS ID table by FY and catchment area ID and retrieve network.
Catchment Area Readiness CMD	Match to DMIS ID Table by FY and catchment area ID and retrieve readiness command.
Catchment Area Readiness Service	Match to DMIS ID Table by FY and catchment area ID and retrieve readiness service.
Catchment Area Base Market Code	Match to DMIS ID Table by FY and catchment area ID and retrieve base market code. Hide field.
Catchment Area Expanded Market Code	Match to DMIS ID Table by FY and catchment area ID and retrieve expanded market code. Hide field
Catchment Area Market Name	Match to DMIS ID Table by FY and catchment area ID and retrieve market name. Hide field
Catchment Area Reporting Market Code	Match to DMIS ID Table by FY and catchment area ID and retrieve reporting market code. Hide field
Catchment Area Type of Market Code	Match to DMIS ID Table by FY and catchment area ID and retrieve reporting market code. Hide field
Catchment Area Type of Market Name	Match to DMIS ID Table by FY and catchment area ID and retrieve type of market name. Hide field
Cumulative OCO Deployed Days	Match to CTS by sponsn 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. Hide field.
Days Since Most Recent OCO Deployment (Dimension)	Match to CTS by sponsn 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. Hide field.
Days Since Return from OCO Deployment (Measure)	Match to CTS by sponsn 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. Hide field.
Enrollment Site Name	Match to DMIS ID Table by FY and enrollment site and retrieve name.
Enrollment Site Command	Match to DMIS ID Table by FY and enrollment site and retrieve command.
Enrollment Site DHP Code	Match to DMIS ID Table by FY and enrollment site and retrieve DHP Code
Enrollment Site Financial Parent	Match to DMIS ID Table by FY and enrollment site and retrieve financial parent.
Enrollment Site Financial Parent Name	Match to DMIS ID Table by FY and enrollment site financial parent and retrieve name.
Enrollment Site HSSC Region	HIDE See M2 DMIS ID Index specification for business rules.
Enrollment Site Military Service	Match to DMIS ID Table by FY and enrollment site and retrieve military service.

M2 Data Element	Processing Rule/Comments
Enrollment Site MSMA	Match to DMIS ID Table by FY and enrollment site and retrieve MSMA. Hide field.
Enrollment Site Network	Match to DMIS ID table by FY and enrollment site and retrieve network.
Enrollment Site Region	HIDE See M2 DMIS specification for business rules.
Enrollment Site Parent	Match to DMIS ID Table by FY and enrollment site and retrieve parent.
Enrollment Site Parent Name	Match to DMIS ID Table by FY and enrollment site parent and retrieve name.
Enrollment Site Readiness CMD	Match to DMIS ID Table by FY and enrollment site and retrieve readiness command.
Enrollment Site Readiness Service	Match to DMIS ID Table by FY and enrollment site and retrieve readiness service.
Enrollment Site Base Market Code	Match to DMIS ID Table by FY and enrollment site and retrieve base market code. Hide field.
Enrollment Site Expanded Market Code	Match to DMIS ID Table by FY and enrollment site and retrieve expanded market code. Hide field.
Enrollment Site Market Name	Match to DMIS ID Table by FY and enrollment site and retrieve market name. Hide field.
Enrollment Site Reporting Market Code	Match to DMIS ID Table by FY and enrollment site and retrieve reporting market code. Hide field.
Enrollment Site Reporting Market Name	Match to DMIS ID Table by FY and enrollment site and retrieve reporting market name. Hide field.
Enrollment Site Type of Market Code	Match to DMIS ID Table by FY and enrollment site and retrieve type of market code. Hide field.
Enrollment Site Type of Market Name	Match to DMIS ID Table by FY and enrollment site and retrieve type of market name. Hide field.
Ever Deployed Flag (OCO)	Match to CTS by sponsn if the DED encounter date is between the CTS begin and end dates. If no match, set to N, else set to Y. Hide field.
Fiscal Quarter	Derive from fiscal month.
IIW Flag	Match to IIW table based on person ID. If a match is found set to "Y", else set to "N". Hide field.
Market Area ID	Match to M2 Market Table by FY, FM and Beneficiary Zip code and Retrieve Market Area ID where service = "O".
MTF Service Area	Match to M2 Market Table by FY, FM and Beneficiary Zip code and Retrieve MTF Service Area ID where service = "O".
MTF Service Area Name	Match to DMIS ID table by FY and MTF Service Area and retrieve name.
MTF Service Area Base Market Code	Match to DMIS ID table by FY and MTF Service Area and retrieve base market code. Hide field.
MTF Service Area Expanded Market Code	Match to DMIS ID table by FY and MTF Service Area and retrieve expanded market code. Hide field.
MTF Service Area Reporting Market Code	Match to DMIS ID table by FY and MTF Service Area and retrieve reporting market code. Hide field.
MTF Service Area Type of Market Code	Match to DMIS ID table by FY and MTF Service Area and retrieve type of market code. Hide field.
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."
Number of Line Items	Set to 1 for every row.

M2 Data Element	Processing Rule/Comments
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'. Hide field.
Prime Service Area	Match to M2 Market Table by FY, FM and Beneficiary Zip code and Retrieve Prime Service Area ID where service = "O".
PRISM Area ID	Match to M2 Market Table by FY, FM and Beneficiary Zip code and Retrieve PRISM Area ID where service = "O".
PRISM Area Name	Match to DMIS ID Table by FY and PRISM Area and retrieve name.
PRISM Area Command	Match to DMIS ID Table by FY and PRISM Area and retrieve command.
PRISM Area Military Service	Match to DMIS ID Table by FY and PRISM Area and retrieve military service.
PRISM Area MSMA	Match to DMIS ID Table by FY and PRISM Area and retrieve MSMA. Hide field.
PRISM Area Network	Match to DMIS ID Table by FY and PRISM Area and retrieve network.
PRISM Area Readiness CMD	Match to DMIS ID Table by FY and PRISM Area and retrieve readiness command.
PRISM Area Readiness Service	Match to DMIS ID Table by FY and PRISM Area and retrieve readiness service.
PRISM Area Base Market Code	Match to DMIS ID Table by FY and PRISM Area and retrieve base market code. Hide field.
PRISM Area Expanded Market Code	Match to DMIS ID Table by FY and PRISM Area and retrieve expanded market code. Hide field.
PRISM Area Market Name	Match to DMIS ID Table by FY and PRISM Area and retrieve market name. Hide field.
PRISM Area Reporting Market Code	Match to DMIS ID Table by FY and PRISM Area and retrieve reporting market code. Hide field.
PRISM Area Reporting Market Name	Match to DMIS ID Table by FY and PRISM Area and retrieve reporting market name. Hide field.
PRISM Area Type of Market Code	Match to DMIS ID Table by FY and PRISM Area and retrieve type of market code. Hide field.
PRISM Area Type of Market Name	Match to DMIS ID Table by FY and PRISM Area and retrieve type of market name. Hide field.
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.
Pseudo Sponsor ID	Confidential algorithm to encrypt sponsor ID. Must be consistent with all other M2 tables.
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	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.
Tmt DMIS ID Name	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve name.
Tmt DMIS ID Command	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve command.

M2 Data Element	Processing Rule/Comments
Tmt DMIS ID DHP Code	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve DHP Code.
Tmt DMIS ID HSSC Region	HIDE See DMIS ID specification for more information.
Tmt DMIS ID Military Service	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve military service.
Tmt DMIS ID Financial Parent	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve financial parent.
Tmt DMIS ID Financial Parent Name	Match to DMIS ID Table by FY and Tmt DMIS ID financial parent and retrieve name.
Tmt DMIS ID MSMA	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve MSMA. Hide field.
Tmt DMIS ID Network	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve network.
Tmt DMIS ID Readiness CMD	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve readiness command.
Tmt DMIS ID Readiness Service	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve readiness service.
Tmt DMIS ID Base Market Code	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve base market code. Hide field.
Tmt DMIS ID Expanded Market Code	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve expanded market code. Hide field.
Tmt DMIS ID Market Name	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve market name. Hide field.
Tmt DMIS ID Reporting Market Code	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve reporting market code. Hide field.
Tmt DMIS ID Reporting Market Name	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve reporting market name. Hide field.
Tmt DMIS ID Type of Market Code	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve type of market code. Hide field.
Tmt DMIS ID Type of Market Name	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve type of market name. Hide field.
Tmt DMIS ID Region	HIDE See DMIS ID specification for more information.
Tmt Parent DMIS ID	Match to DMIS ID Table by FY and Tmt DMIS ID and retrieve parent.
Tmt Parent DMIS ID Name	Match to DMIS ID Table by FY and Tmt Parent DMIS ID and retrieve name.
TPR Flag	Match to M2 Market Table by FY, FM and Beneficiary Zip code and Retrieve TPR Flag where service = "O".

X. 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

XI. File Location

Health Care Services / Dental / Direct Care Dental

XII. Special Outputs: N/A