

02 December 2024

**Omni Catchment Area Directory (CAD)
for the
MHS Data Repository (MDR)
(Version 1.10.03)**

Future Specification

Revision History

Version	Date	Originator	Para/Tbl/Fig	Description of Change
1.00.00	07/15/2008	J. MacLeod, W. Funk		<ul style="list-style-type: none"> Initial document
1.01.00	10/11/2013	J. MacLeod, W. Funk	Table A-1	<ul style="list-style-type: none"> Added the T3_REG variable Modified the derivation rules for the hsscrag and r_world variables
1.02.00	11/20/2013	J. MacLeod, W. Funk	<ul style="list-style-type: none"> Section I - Source File table Section II - Source File table Table A-1 Section VI 	<ul style="list-style-type: none"> Deleted the TPR, PSA, and Market Area rows from the Source Files tables in Section I and Section II. Modified the derivation rules for the lamarket, tprflag, and psaflag variables. Those fields will now be read in directly from the raw Inpatient CAD feed. In section VI, revised wording for refreshing prior FYs of data.
1.03.00	12/11/2013	J. MacLeod	<ul style="list-style-type: none"> Table A-1 	<ul style="list-style-type: none"> Modified the logic of the T3 Region variable to incorporate 'A' (Alaska) and 'O' (Other) region logic and to change the start time on the field from FY03+ to July 2004 +. Altered the derivation logic for the HSSCREG variable to reflect the order of operations in the processing software. Added a note to clarify the content of the RAWHSSC field.
1.04.00	10/02/2014	J. MacLeod	<ul style="list-style-type: none"> Table A-2 	<ul style="list-style-type: none"> In the row containing the "format" field, the TRICARE Region field was replaced with the T3 Region, and the example was updated.
1.04.01	10/8/2014	J. MacLeod	<ul style="list-style-type: none"> Table A-2 	<ul style="list-style-type: none"> In the "format" row in the table: <ul style="list-style-type: none"> Slight modification to the example line. The example was changed from " S" to "S " and adjusted the "other" example Changed the "other" line value for the T3 region from 16 to blank.
1.05.00	4/27/2016	J. MacLeod	<ul style="list-style-type: none"> Table A-1 	<ul style="list-style-type: none"> T3 Region logic: <ul style="list-style-type: none"> Modified the logic to further break out the "other" value into "Other Europe", "Other Latin America", "Other Pacific", and "Other" HSSCREG logic: <ul style="list-style-type: none"> Fixed a typo in the logic and changed R_WORLD to HSSCREG Modified logic to accommodate change to T3_REG variable.
1.06.00	9/8/2017	J. MacLeod	<ul style="list-style-type: none"> Table A-1 Table A-2 Appendix A Appendix B 	<ul style="list-style-type: none"> Adjusted the T3 logic to have the raw value of 00 mapped to blank. Added the T17 region field Adjusted the format to add the T17 region Added Appendices A and B
1.07.00	9/20/2017	J. MacLeod	<ul style="list-style-type: none"> Table A-2 	<ul style="list-style-type: none"> Moved the T17 region to the end of the specification and fixed the example

Version	Date	Originator	Para/Tbl/Fig	Description of Change
1.08.00	10/2/2017	J. MacLeod	<ul style="list-style-type: none"> Appendix A 	<ul style="list-style-type: none"> Updated the zip code list in Appendix A
1.09.00	1/28/2018	J. MacLeod	<ul style="list-style-type: none"> Table A-1 	<ul style="list-style-type: none"> Fixed the business rules for the T17 region.
1.10.00	12/5/2018	J. MacLeod	<ul style="list-style-type: none"> Sections I and II Table A-1 	<ul style="list-style-type: none"> Added city, state, and county name variables Changed text from Inpatient CAD to World CAD - no functional change, just cleaning up the text
1.10.01	12/11/2018	J. MacLeod	<ul style="list-style-type: none"> Revision History 	<ul style="list-style-type: none"> Fixed typo in the county field name
1.10.02	2/3/22	K. Hofmann	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Specified how to use Sponsor Service to apply the appropriate catchment area. Added Space Force to Sponsor Service mappings.
1.10.03	12/2/2024	T. Comer	<ul style="list-style-type: none"> Table A1 Appendix C, D 	<ul style="list-style-type: none"> Added T5 Region Added new appendices

MDR Omni Catchment Area Directory (CAD) Files

I. SOURCES

The source data files used to create the MDR Omni Catchment Area Directory (Omni-CAD) files are prepared and provided by the DHA. These files, and the offices which provide them, are listed below:

Source File	DHA Directorate
World Catchment Area Directory	DSD
BPA Catchment Area Directory	RM
MTF Service Area	RM
PRISM Area Directory	RM
City, State, County File	DSD

II. TRANSMISSION (FORMAT AND FREQUENCY)

All source files are provided in text or Excel format, according to the following frequency:

Source File	Frequency
World Catchment Area Directory	Monthly; ~ 1 st
BPA Catchment Area Directory	No longer submitted
MTF Service Area	Monthly; near the end of the previous month
PRISM Area Directory	Annually; or when MCFAS is updated.
City, State, County File	Monthly; ~ 1 st

III. ORGANIZATION AND BATCHING

MDR Omni-CAD files are prepared monthly; generally in the beginning of the month. MDR Omni-CAD files consist of:

- MDR Omni CAD SAS Data Set: This data set contains all years of data (FY97 forward), with one member for each month's source file.
- MDR SAS Format File: These fiscal year datasets (FY99 forward) contain members that correspond to the inpatient CAD, the BPA CAD/MTF Service Area and the PRISM Area Directory. Each member contains SAS format statements that apply to each of the months within the year of the file. These SAS format statements are executable SAS code.

IV. RECEIVING FILTERS

The TRO Market area and Prime Service Area source files are filtered such that each region can only designate market areas for zip codes within their boundary. Please consider Alaska part of TRO West for this purpose.

No other filters are applied to the source data.

V. FIELD TRANSFORMATIONS AND FILE TYPES FOR MDR CORE DATABASES

The MDR Omni-CAD SAS Dataset contains one member per month. The member names are of the format Ammyy. The format of each member is described in Table A-1.

Table A-1: MDR Omni CAD SAS Data Set

Variable Name	SAS Name	Format	Source/Derivation
Army BPA Catchment Area DMIS ID / MTF Service Area	A_BPA	\$4	For FY05 and earlier: BPA CAD For FY06 and later: MTF Service Area Reference File
Army PRISM Service Area DMIS ID	A_PRISM	\$4	PRISM Area Directory
Army Inpatient Catchment Area DMIS ID	A_WORLD	\$4	World CAD
Air Force BPA Catchment Area DMIS ID / MTF Service Area	F_BPA	\$4	For FY05 and earlier: BPA CAD For FY06 and later: MTF Service Area Reference File
Air Force PRISM Service Area DMIS ID	F_PRISM	\$4	PRISM Area Directory
Air Force Inpatient Catchment Area DMIS ID	F_WORLD	\$4	World CAD
TRO Market Area ID	LAMARKET	\$3	World CAD.
Navy BPA Catchment Area DMIS ID / MTF Service Area	N_BPA	\$4	For FY05 and earlier: BPA CAD For FY06 and later: MTF Service Area Reference File
Navy PRISM Service Area DMIS ID	N_PRISM	\$4	PRISM Area Directory
Navy Inpatient Catchment Area DMIS ID	N_WORLD	\$4	World CAD
Other BPA Catchment Area DMIS ID / MTF Service Area	O_BPA	\$4	For FY05 and earlier: BPA CAD For FY06 and later: MTF Service Area Reference File
Other PRISM Service Area DMIS ID	O_PRISM	\$4	PRISM Area Directory
Other Inpatient Catchment Area DMIS ID	O_WORLD	\$4	World CAD

Variable Name	SAS Name	Format	Source/Derivation
ZIP Code (5-digit)	PATZIP	\$5	No derivation.
BPA Health Service Region ID	R_BPA	\$2	BPA CAD
Inpatient Health Service Region ID	R_WORLD	\$2	<p>World CAD</p> <p>Prior to April 2012: Ingest from raw CAD feed.</p> <p>April 2012 and later: Ingest from raw CAD feed, but if ACATCH, NCATCH, FCATCH or OCATCH =0060, 0779, then set R_WORLD to 05</p>
T17 Region	T17_REG	\$2	<p>For FY2012 and later:</p> <p>Prior to October 2017: Initially set to the T3 region. If the zip code is in the list in Appendix A, set the T17 region to E. If the zip code is in the list in Appendix B, set T17 region to W. If the T17 region is N or S, set it to E.</p> <p>October 2017 and later: Ingest from raw CAD feed. If the 1st three characters of the zip code are between 995 and 999 (inclusive) or R_WORLD='AK' then T17_REG='A'; else if the raw T17 region=13, set T17_REG to 'OE'; else if the raw T17 region=14, set T17_REG to 'OP'; else if the raw T17 region=15, set to T17_REG 'OL'; else if the raw T17 region='O', set T17_REG to 'O'; else if the raw T17 region='00', set T17_REG=''; otherwise leave as read in from raw data.</p>

Variable Name	SAS Name	Format	Source/Derivation
T3 Region	T3_REG	\$2	<p>World CAD.</p> <p>Only populated July 2004 and later</p> <p>Prior to April 2012: Ingest from raw CAD feed. If the 1st three characters of the zip code are between 995 and 999 (inclusive) or R_WORLD='AK' then T3_REG='A'; else if ACATCH, NCATCH, FCATCH or OCATCH =0060, 0779, then set T3_reg to S; else if the raw T3 region=13, set T3_REG to 'OE'; else if the raw T3 region=14, set T3_REG to 'OP'; else if the raw T3 region=15, set to T3_REG 'OL'; else if the raw T3 region='O', set T3_REG to 'O'; else if the raw T3 region='00', set T3_REG=""; otherwise leave as read in from raw data.</p> <p>April 2012 and later: Ingest from raw CAD feed. If the 1st three characters of the zip code are between 995 and 999 (inclusive) or R_WORLD='AK' then T3_REG='A'; else if the raw T3 region=13, set T3_REG to 'OE'; else if the raw T3 region=14, set T3_REG to 'OP'; else if the raw T3 region=15, set to T3_REG 'OL'; else if the raw T3 region='O', set T3_REG to 'O'; else if the raw T3 region='00', set T3_REG=""; otherwise leave as read in from raw data.</p>

Variable Name	SAS Name	Format	Source/Derivation
T5 Region	T5_REG	\$2	<p>Populated from January 1, 2025</p> <p>Ingest from raw CAD feed. If the raw T5 region=13, set T5_REG to 'OE'; else if the raw T5 region=14, set T5_REG to 'OP'; else if the raw T5 region=15, set to T5_REG 'OL'; else if the raw T5 region='O', set T5_REG to 'O'; else if the raw T5 region=25, set T5_REG to 'E'; else if the raw T5 region=26, set T5_REG to 'W'; else if the raw T5 region='00', set T5_REG=''; otherwise leave as read in from raw data.</p>
TRICARE Next Generation Region	HSSCREG	\$1	<p>Only populated FY03 and later</p> <p>Prior to April 2012:</p> <p>If the 1st three characters of the zip code are between 995 and 999 (inclusive) or R_World = 'AK' then HSSCREG='A'; else if R_World in (07, 08, 09, 10, 11, 12) then HSSCREG='W'; else if R_World in (03, 04, 06) then HSSCREG='S'; else if HSSCREG in (01, 02, 05) then HSSCREG='N';, else if R_World in (13, 14, 15) then HSSCREG='O'; else HSSCREG=' '.</p> <p>April 2012 and later:</p> <p>If ACATCH, NCATCH, FCATCH or OCATCH =0060, 0779, then set the HSSCREG to N; otherwise set to the first character of the T3_REG variable.</p>

Variable Name	SAS Name	Format	Source/Derivation
Region of Record	RAWHSSC	\$2	World CAD. Note: Prior to Apr 2012, this field contains the HSSC Region. April 2012 and later, it contains the T3 Region.
TPR Flag	TPRFLAG	\$1	World CAD.
Prime Service Area Flag	PSAFLAG	\$1	World CAD.
From City, State, County file			
City	CITY	\$28	Merge by zip code to the City, State, County file that corresponds to the raw World CAD.
FIPS State Code	STATE	\$2	Merge by zip code to the City, State, County file that corresponds to the raw World CAD.
County Name	COUNTY	\$25	Merge by zip code to the City, State, County file that corresponds to the raw World CAD.

The MDR SAS Format Files are fiscal year files containing members that designate inpatient catchment areas and regions, PRISM areas, BPA catchment areas.

The content of each of the members is executable SAS code utilizing the SAS format procedure. Each member contains 12 SAS format statements; corresponding to the months in the year. For months that have yet to pass, the format statements will be there; but there will be no content within the body of the statement.

The member names for the MDR Omni CAD SAS format files are world (World CAD), prism, and bpa. The format of the files is described in Table A-2.

Table A-2: MDR Omni CAD SAS Format File

Variable Name	SAS Name	Format	Derivation
ZIP Code	START	Char(5)	PATZIP
Format Name; type, month, year	FMTNAME	Char(6)	TmmyyX; where T represents the type of format (P=PRISM, B=BPA/MTF Service Area, W=World) and yy and mm represent the calendar year and month of the data. (i.e.; P1002X is the format name for PRISM October 2002).

Variable Name	SAS Name	Format	Derivation
Format Type	TYPE	Char(1)	All Values are 'C' (character).
High, Low, Other Format Indicator	HLO	Char(1)	All are blank except the "Other" format record which contains value "O".
Format	LABEL	Char(25)	Concatenated string containing the DMIS IDs and regions (by sponsor service), associated with the zip code, month and type of the format. The string of data appears in the following order: Army affiliated DMISID, Air Force affiliated DMISID, Navy affiliated DMISID, Other affiliated DMISID, T3 Region, HSSC region, TPR Flag, PSA Flag, T17 Region, T5 Region. (i.e.; 0001000100010001S EYEE) Note that TRICARE Region and HSSC region are represented by blanks for the PRISM format type. The final row of each format statement within this file, maps undefined (not found in any of the source files) zip codes to DMISID 0999 (unknown) and T3 Region ` ` and T17 Region ` ` and HSSC Region ` ` and T5 Region ` ` (again except PRISM for the region/HSSC region). This is accomplished with the SAS "Other=" option in its format procedure.

Note: When applying the Omni-CAD the following Sponsor Service mappings are used to select the appropriate catchment area for patients:

For Sponsor Service:
A -> Army-affiliated DMIS ID
F, S -> Air Force-affiliated DMIS ID
M, N -> Navy-affiliated DMIS ID
All others -> Other DMIS ID

For Sponsor Service, Aggregate:
A -> Army-affiliated DMIS ID
F, S -> Air Force-affiliated DMIS ID
M, N, V -> Navy-affiliated DMIS ID
All others -> Other DMIS ID

VI. REFRESH FREQUENCY

Frequency of updates:

- Current FY: Every month
- Prior FY:
 - When annual PRISM update becomes available, update corresponding FY and any subsequent years with new PRISM.
 - When directed to by DHCAPE, apply updated market area information to prior years of data.

VII. DATA MARTS

M2: see specification document for details.

APPENDIX A: List of Zip Codes in Missouri and Iowa that belong in the East Region for the T17 Contracts

52030	52736	52752	52805	63030	63057	63105	63131	63167	63341	63377	63849
52031	52701	52753	52806	63031	63060	63106	63132	63169	63342	63378	63851
52037	52720	52772	52807	63032	63061	63107	63133	63171	63343	63379	63852
52060	52721	52755	52808	63033	63065	63108	63134	63177	63344	63380	63853
52064	52722	52756	63001	63034	63066	63109	63135	63178	63345	63381	63855
52069	52726	52757	63005	63035	63068	63110	63136	63179	63346	63382	63857
52070	52727	52758	63006	63036	63069	63111	63137	63180	63347	63383	63862
52074	52728	52759	63010	63037	63070	63112	63138	63182	63348	63384	63863
52075	52729	52760	63011	63038	63071	63113	63139	63188	63349	63385	63870
52207	52730	52761	63012	63039	63072	63114	63140	63190	63350	63386	63873
52212	52731	52765	63013	63040	63073	63115	63141	63195	63351	63387	63875
52216	52732	52766	63014	63041	63074	63116	63143	63196	63352	63388	63876
52254	52733	52767	63015	63042	63077	63117	63144	63197	63353	63389	63877
52255	52734	52768	63016	63043	63079	63118	63145	63198	63357	63390	63878
52306	52754	52769	63017	63044	63080	63119	63146	63199	63359	63627	63879
52309	52737	52771	63018	63045	63084	63120	63147	63301	63361	63670	63880
52320	52738	52809	63019	63046	63087	63121	63150	63302	63362	63821	63933
52321	52739	52773	63020	63047	63088	63122	63151	63303	63363	63826	63961
52323	52742	52774	63021	63048	63089	63123	63155	63304	63365	63827	63866
52337	52745	52776	63022	63049	63090	63124	63156	63330	63366	63829	63874
52358	52746	52777	63023	63050	63091	63125	63157	63332	63367	63830	
52362	52747	52778	63024	63051	63099	63126	63158	63333	63368	63837	
52637	52748	52801	63025	63052	63101	63127	63160	63334	63369	63839	
52640	52749	52802	63026	63053	63102	63128	63163	63336	63370	63840	
52646	52750	52803	63027	63055	63103	63129	63164	63338	63373	63847	
52653	52751	52804	63028	63056	63104	63130	63166	63339	63376	63848	

APPENDIX B: List of Texas Zip Codes that belong in the West Region for the T17 Contracts

73960	79051	79104	79250	79353	79407	79785	79913	79945	88514	88544	88575
79001	79052	79105	79255	79355	79408	79786	79914	79946	88515	88545	88576
79007	79053	79106	79257	79356	79409	79821	79915	79947	88516	88546	88577
79008	79058	79107	79258	79357	79410	79835	79916	79948	88517	88547	88578
79009	79062	79108	79311	79358	79411	79836	79917	79949	88518	88548	88579
79010	79063	79109	79312	79359	79412	79837	79918	79950	88519	88549	88580
79012	79064	79110	79313	79360	79413	79838	79920	79951	88520	88550	88581
79013	79068	79111	79314	79363	79414	79839	79922	79952	88521	88553	88582
79015	79072	79114	79316	79364	79415	79843	79923	79953	88523	88554	88583
79016	79073	79116	79322	79366	79416	79845	79924	79954	88524	88555	88584
79018	79078	79117	79323	79367	79423	79846	79925	79955	88525	88556	88585
79019	79080	79118	79324	79369	79424	79847	79926	79958	88526	88557	88586
79021	79081	79119	79325	79371	79430	79849	79927	79960	88527	88558	88587
79022	79082	79120	79326	79372	79452	79851	79928	79961	88528	88559	88588
79025	79083	79121	79329	79373	79453	79853	79929	79968	88529	88560	88589
79027	79084	79124	79330	79376	79457	79854	79930	79976	88530	88561	88590
79029	79085	79159	79331	79377	79464	79855	79931	79978	88531	88562	88595
79031	79086	79166	79336	79378	79490	79901	79932	79980	88532	88563	
79032	79087	79168	79338	79379	79491	79902	79934	79990	88533	88565	
79035	79088	79172	79339	79380	79493	79903	79935	79995	88534	88566	
79036	79091	79174	79342	79381	79499	79904	79936	79996	88535	88567	
79039	79092	79178	79343	79382	79718	79905	79937	79997	88536	88568	
79040	79094	79185	79344	79383	79734	79906	79938	79998	88538	88569	
79041	79097	79189	79345	79401	79738	79907	79940	79999	88539	88570	
79042	79098	79221	79346	79402	79754	79908	79941	88510	88540	88571	
79043	79101	79231	79347	79403	79770	79910	79942	88511	88541	88572	
79044	79102	79235	79350	79404	79772	79911	79943	88512	88542	88573	
79045	79103	79241	79351	79406	79780	79912	79944	88513	88543	88574	

APPENDIX C: List of Zip Codes that belong in the East Region for the T5 Contracts

Arkansas			
72301	72346	72401	72435
72303	72348	72402	72436
72310	72350	72403	72437
72313	72351	72404	72438
72315	72354	72405	72441
72316	72358	72411	72442
72319	72364	72412	72443
72321	72365	72414	72447
72324	72370	72416	72450
72325	72373	72417	72451
72327	72376	72419	72454
72329	72377	72421	72456
72330	72384	72422	72461
72331	72386	72424	72464
72332	72391	72426	72467
72338	72394	72428	72472
72339	72395	72430	72474
Missouri			
63821	63847	63862	63877
63826	63848	63863	63878
63827	63849	63866	63879
63829	63851	63870	63880
63830	63852	63873	63933
63837	63853	63874	63961
63839	63855	63875	
63840	63857	63876	
Wisconsin			
54121			

APPENDIX D: List of Zip Codes that belong in the West Region for the T5 Contracts

Indiana			
46312	46327	47917	47974
46320	46394	47921	47982
46321	46401	47928	47991
46323	46402	47932	47993
46324	46404	47944	
46325	46406	47966	