

03 February 2022

**Omni Catchment Area Directory (CAD)
for the
MHS Data Repository (MDR)
(Version 1.10.02)**

Current 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	<ul style="list-style-type: none"> 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"> Specified how to use Sponsor Service to apply the appropriate catchment area. Added Space Force to Sponsor Service mappings.

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
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>
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).
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(23)	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. (i.e.; 0001000100010001S EYYE) 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 ` ` (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**

| Zip Code |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 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

| Zip Code |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 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 | |