**27 April 2016**

Omni Catchment Area Directory (CAD)

for the

MHS Data Repository (MDR)

(Version 1.05.00)

Future Specification

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Originator** | **Para/Tbl/Fig** | **Description of Change** |
| 1.00.00 | 07/15/2008 | J. MacLeod, W. Funk |  | * Initial document |
| 1.01.00 | 10/11/2013 | J. MacLeod, W. Funk | Table A-1 | * Added the T3\_REG variable * Modified the derivation rules for the hsscreg and r\_world variables |
| 1.02.00 | 11/20/2013 | J. MacLeod, W. Funk | * Section I -Source File table * Section II – Source File table * Table A-1 * Section VI | * 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 | * Table A-1 | * 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 | * Table A-2 | * 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 | * Table A-2 | * In the “format” row in the table:   + 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 | * Table A-1 | * T3 Region logic:   + Modified the logic to further break out the “other” value into “Other Europe”, “Other Latin America”, “Other Pacific”, and “Other” * HSSCREG logic:   + Fixed a typo in the logic and changed R\_WORLD to HSSCREG   + Modified logic to accommodate change to T3\_REG variable. |

# MDR Omni Catchment Area Directory (CAD) Files

1. 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** |
| Inpatient Catchment Area Directory | HPA&E |
| BPA Catchment Area Directory | RM |
| MTF Service Area | RM |
| PRISM Area Directory | RM |

1. Transmission (Format and Frequency)

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

|  |  |
| --- | --- |
| **Source File** | **Frequency** |
| Inpatient Catchment Area Directory | Monthly; ~ 1st |
| 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. |

1. 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.

1. 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.

1. 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 | Inpatient 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 | Inpatient CAD |
| TRO Market Area ID | LAMARKET | $3 | Inpatient 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 | Inpatient 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 | Inpatient CAD |
| 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 | Inpatient CAD  **Prior to April 2012:**  Ingest from raw CAD feed.  **April 2012 and later:**  Ingest from raw CAD feed, but if ACATCH, NCATCH, FCATCH or OCATCH =0060, 0779, then set R\_WORLD to 05 |
| T3 Region | T3\_REG | $2 | Inpatient CAD.  **Only populated July 2004 and later**  **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’; otherwise leave as read in from raw data.  **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’; otherwise leave as read in from raw data. |
| TRICARE Next Generation Region | HSSCREG | $1 | **Only populated FY03 and later**  **Prior to April 2012:**  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=’ ’.  **April 2012 and later:**  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. |
| Region of Record | RAWHSSC | $2 | Inpatient 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 | Inpatient CAD. |
| Prime Service Area Flag | PSAFLAG | $1 | Inpatient 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 (inpatient 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(21) | 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, and PSA Flag.  (i.e.; 0001000100010001S EYY) 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 HSSC Region ‘ ’ (again except PRISM for the region/HSSC region). This is accomplished with the SAS “Other=” option in its format procedure. |

1. 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.

1. Data Marts

M2: see specification document for details.