**07 August 2012**

MHS Address File

for the

MHS Data Repository (MDR)

(Version 1.01.00)

Current Specification

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date**  | **Originator** | **Para/Tbl/Fig** | **Description of Change** |
| 1.00.00 | 10/16/2004 | W. Funk | * Appendices C & F
* Entire document
 | * Modified the DRG and MS-DRG grouper input and output layouts.
* Changed EI/DS references to DHSS.
 |
| 1.01.00 | 08/02/2012 | L. Hopkins | * VIII
* Entire Document
 | * Added Patient SSN
* Changed VM4 references to VM6
 |

# MHS Address File

1. Source:

The MHS Address File is prepared from outputs from two other MDR processes; the MDR VM6 (a.k.a Point in Time Extract) Address File, and the CHCS Appointment Address File. Both outputs are prepared as a part of routine MDR Processing and are described in the specifications of the respective data types.

1. Transmission (Format and Frequency):

The VM6 Address file and the CHCS Appointment Address file are both stored as SAS Datasets and are available once per month, upon completion of processing of the VM6 and the CHCS Appointment Data.

1. Organization and Batching

There is one cumulative MDR Address file, representing data found in the MDR VM6 Address file and the CHCS Appointment Address file.

1. Receiving Filters

See PITE and CHCS Appointment Specifications for further detail on business rules used to create the source data files

1. Initial File Requirement

To create the initial address file:

1. Read in the raw VM6 file. De-duplicate records so that there is only one record per EDI\_PN. For records that share an EDI\_PN and have the address field populated, select the record with the most recent LST\_UPDT\_DT. If there is more than one record with the same LST\_UPDT\_DT, but different address information, select the record with the MI\_HCDP\_PLN\_CVG\_CD populated and valid at the time the VM6 extract was pulled (determine validity of MI\_HCDP\_PLN\_CVG\_CD by assessing the MI\_PCM\_SLCT\_BGN\_DT and MI\_PCM\_SLCT\_END\_DT compared with extract date). If there is no record with valid enrollment, simply de-duplicate arbitrarily.
2. Prepare appointment-address records
	1. Read in and append all available CHCS files.
	2. Merge to the MMPI to populate records in the CHCS data with blank EDI\_PN, according to MDR Retrofit rules established in July 2004.
		1. De-duplicate the July 2004 MMPI file based on Sponsor SSN and DDS. Merge the resulting dataset to the CHCS appointment-address data by Sponsor SSN and DDS if merge key is not blank.
		2. For those appointment records that did not merge using the criteria above (2bi):
			1. Create 4 relationship categories (sponsor, spouse, children, and other) in appointment data based on FMP where FMP=’2\*’ equal sponsor, FMP=’3\*’ equal spouse, FMP=’0\*’ or ‘1\*’ equal children, and the rest are grouped as other.
			2. Create 4 relationship categories (sponsor, spouse, children, and other) in the MMPI file based on DDS where DDS=’2\*’ equal sponsor, DDS=’3\*’ equal spouse, DDS=’0\*’ or ‘1\*’ equal children, and the rest are grouped as other. Note, the MMPI file used in this step should not be dedup by Sponsor SSN and DDS.
			3. Merge appointment records with MMPI file by Sponsor SSN and relationship category based on best match criteria in the order of (1) patient sex and date of birth matched exactly; (2) patient date of birth matched exactly; (3) patient sex matched exactly, patient date of birth if plus or minus 2 months and 1 day from one another; and (4) patient date of birth if plus or minus 2 months and 1 day from one another.
	3. At the end of this step, delete records where the EDI\_PN remains blank.
	4. Keep only the most recent record (latest appointment date) for a given person where:
		1. A person is defined using EDI\_PN, and
		2. The address is not blank, and
		3. If there is more than one record for a person matching the criterion above, the record with the most recent update date is selected.
3. Merge the VM6 Address file created in step 1, with the file that results from step 2, using EDI\_PN as a merge key, and keep fields according to the file layout document below.
4. Sort the data set by EDI\_PN.
5. Update process

To update the MHS Address File:

1. The monthly VM6 address file is merged to the master MHS Address File by EDI\_PN, and the last update date of the incoming record is compared with the VM6 last update date in the MHS address file. The VM6 information in the MHS address file is replaced by the content in the incoming feed, if:
	1. The incoming feed’s update date is more recent, and
	2. The address in the incoming feed is populated.
2. The incremental CHCS data is merged to the resulting file by EDI\_PN, and the last update date of the incoming record is compared with the CHCS last update date in the MHS address file. The CHCS information in the MHS address file is replaced by the content in the incoming feed, if:
	1. The incoming feed’s update date is more recent, and
	2. The address in the incoming feed is populated.
3. Field Transformations and Deletions for MDR Core Database

In the MHS Address file, address related values for CHCS-based fields are set to blank if a VM6 address exists, but nothing has been reported through CHCS. Similarly, address related values for VM6 data are set to blank if the only address-related information reported for a beneficiary is through the CHCS feed.

Two fields are appended to the address file to represent the most recent update date for the CHCS and DEERS addresses. For the CHCS update date, this field will hold the most recent appointment date as defined in the “Update Process” section of this document. For the VM6 update date field, the date will be the LST\_UPDT\_DT.

1. Record Layout and Content

The MDR Address file is stored as a fiscal year SAS dataset. The format for the MDR Address file is provided in the table below.

Master MDR Address Dataset.

| **Field Name** | **Format** | **SAS Name** | **Address file reference** | **Source of Data Element** | **Transformation** |
| --- | --- | --- | --- | --- | --- |
| DEERS EDI\_PN | $10 | edi\_pn | DOD\_EDI\_PN |  | No transformation. This is the file key. |
| Patient SSN | $9 | patssn | PN\_ID | VM6 | No transformation. |
| DEERS First Name  | $20 | d\_name1 | PN\_1ST NAME | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS Last Name  | $27 | d\_name2 | PN\_LST\_NM | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS Cadency | $4 | d\_cadncy | PN\_CDNCY\_NM | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS Mailing Address, Line 1  | $40 | d\_addr1 | MA\_LN1\_TX | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS Mailing Address, Line 2  | $40 | d\_addr2 | MA\_LN2\_TX | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS City  | $20 | d\_city | MA\_CITY\_NM | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS Country | $2 | d\_cntry | MA\_CTRY\_CD | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS State | $2 | d\_state | MA\_ST\_CD | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS Zip Code | $5 | d\_zip | MA\_PR\_ZIP\_CD | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS Zip + 4 | $4 | d\_zip4 | MA\_PR\_ZIPX\_CD | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS Work Telephone Number | $20 | d\_wkfon | WK\_TNUM\_CD | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS Home Telephone Number | $20 | d\_hmfon | HM\_TNUM\_CD | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| DEERS Last Update Date | SAS Date | d\_updt | LST\_UPDT\_DT | VM6 | Set to blank if no VM6 record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| CHCS First Name  | $20 | c\_name1 | PATFN | CHCS | Set to blank if no CHCS record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| CHCS Last Name  | $26 | c\_name2 | PATLN | CHCS | Set to blank if no CHCS record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| CHCS Mailing Address, Line 1  | $40 | c\_addr1 | ADDR1 | CHCS | Set to blank if no CHCS record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| CHCS Mailing Address, Line 2  | $40 | c\_addr2 | ADDR2 | CHCS | Set to blank if no CHCS record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| CHCS Mailing Address, Line 2  | $40 | c\_addr3 | ADDR3 | CHCS | Set to blank if no CHCS record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| CHCS City  | $20 | c\_city | CITY | CHCS | Set to blank if no CHCS record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| CHCS State | $2 | c\_state | STATE | CHCS | Set to blank if no CHCS record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| CHCS Zip Code | $5 | c\_zip | ZIP | CHCS | Set to blank if no CHCS record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| CHCS Home Telephone Number | $14 | c\_hmfon | FONHOME | CHCS | Set to blank if no CHCS record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |
| CHCS Last Update Date | SAS Date | c\_updt | APPTDT | CHCS | Set to blank if no CHCS record for this EDI\_PN; otherwise, fill with value of field in column “address file reference”. |