**06 February 2019**

MHS Genesis Person 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 | 01/15/2018 | Wendy Funk | * Initial Document
 | * Initial Document
 |
| 1.01.00 | 02/06/2019 | Tracy Comer for Wendy Funk | * Section 3
* Table 2
 | * Adjusted wording regarding restricted file
* Added wording to place person\_key field in the restricted file
 |

# MDR Genesis Person File

1. Source:

The source system is the Cerner Millennium database. All records are sent from WH\_CLN\_PERSON\_REF table, with joins to other alias and reference tables that enhance the MDR Genesis Person file.

1. Transmission (Format and Frequency)

TBD

1. Organization and Batching

Source data: The first step in MDR processing is to batch records received from MHS Genesis. Raw data batches are stored in /mdr/raw/genesis according to routine MDR operating procedures.

Output products:

Two SAS datasets will be produced from MHS Genesis person data. These datasets are described below.

| File Name | Description | Location |
| --- | --- | --- |
| Person File | File with most patient information and ordered by the MHS Genesis Person Key  | /mdr/pub/genesis/person/ person.sas7bdat |
| Person File Restricted | File with patient addresses, phone numbers, and email addresses and ordered by the MHS Genesis Person Key | /mdr/restricted/genesis/person/ person.sas7bdat |

1. Receiving Filters

All records were provided with the initial batch of data. Thereafter, new and changed records are sent each week.

1. Update Process

After sending the initial batch of person data (11/16/2017), the raw feeds for the person file represent either insert and update records. These records shall be used to maintain the master MDR person dataset.

The primary key for the person table is the PERSON\_KEY field. During the extraction of the raw person records, de-duplication of records, or anytime a person key collision occurs between incoming data and existing master data, the processor de-duplicates data by selecting the record with the most recent value of the update date/time (UPDT\_DT\_TM) for any multiple of records with the same primary key.

Once the dataset has been updated, the processor assigns many other internally-derived variables as described in Table 2.

1. Field Transformations and Deletions for MDR Core Database

This section of this functional specification describes the data merges that are necessary to append fields in the MDR Genesis Person file. Table 1 describes the reference files that are used in processing.

| **Merge** | **Date Matching** | **Additional Matching** |
| --- | --- | --- |
| Person Alias Table  | beg\_effective\_dt\_tmend\_effective\_dt\_tm | person\_sk |
| Code Value Out table  | N/A | code value ref, contributor source; health\_system\_id; active\_ind |
| Code Value table  | N/A | code value ref, health\_system\_id; active\_ind |
| Person Name Table | N/A | person\_sk, health\_system\_source\_id where src\_active\_ind=1 |
| Phone Table | N/A | person\_sk= src\_parent\_entity\_sk (and src\_parent\_entity\_name=person, src\_active\_ind=1, health\_system\_source\_id=18635 |
| DEERS VM-6 Beneficiary File | Most recent file | EDIPN, where primary record is 1 and eligibility indicator is 1. Only match where src\_active\_ind |
| Encounter Table | N/A | person\_sk |
| Person to Person Relationship Table | N/A | person\_sk |

Business rules for each of the appended fields are described in the body of the format table in Section VII.

1. File Layout

The MDR Genesis Person file is stored in a SAS data set. Table 2 provides the file layout and processing rules.

**Table 2 File Layout for MDR Genesis Person File**

| **Field** | **Format** | **SAS Name** | **Source Element** | **Transformation** |
| --- | --- | --- | --- | --- |
| MHS Genesis Unique Person ID | $100 | person\_sk | person\_sk | No transformation |
| MHS Genesis Person Key | 8 | person\_key | person\_key | No transformation. Also available in /restricted. Can be used for linking restricted file to pub file. |
| Health System ID | 8 | hs\_id | health\_system\_id | No transformation |
| Birth Date/Time | Date/Time | dob | birth\_dt\_tm | No transformation |
| Gestational Age | 8 | gest\_age | gestational\_age\_days\_at\_birth | No transformation |
| Sex Change Flag | $1 | sex\_chg | sex\_change\_ind | No transformation |
| Birth Weight | 8 | birth\_weight | birth\_weight | No transformation |
| First Name | $100 | first\_name | first\_name | No transformation |
| Middle Name | $100 | mid\_name | middle\_name | No transformation |
| Last Name | $100 | last\_name | last\_name | No transformation |
| Full Name | $100 | full\_name | full\_name | No transformation |
| Address Line 1 | $100 | addr\_line1 | address\_line\_1 | No transformation. Only available in /restricted. |
| Address Line 2 | $100 | addr\_line2 | address\_line\_2 | No transformation. Only available in /restricted. |
| Address Line 3 | $100 | addr\_line3 | address\_line\_3 | No transformation. Only available in /restricted. |
| Address Line 4 | $100 | addr\_line4 | address\_line\_4 | No transformation. Only available in /restricted. |
| City | $100 | city | city | No transformation |
| Postal Code | $11 | zip | postal\_code | No transformation |
| Email Address | $100 | email | email\_address | No transformation. Only available in /restricted |
| Rank | $100 | rank | employee\_title | No transformation |
| Death Date/Time | Date/Time | death\_dt | deceased\_dt\_tm | No transformation |
| Begin Effective Date/Time | Date/Time | beg\_dt | beg\_effective\_dt\_tm | No transformation |
| End Effective Date/Time | Date/Time | end\_dt | end\_effective\_dt\_tm | No transformation |
| Extract Date to MDR | Date/Time | extract\_dt\_tm | extract\_dt\_tm | No transformation |
| Update Date/Time | Date/time | updt\_dt\_tm | updt\_dt\_tm | No transformation |
| **Fields from the Person Alias File** |
| MRN | $40 | mrn | alias | Alias, where alias\_type\_ref=10 |
| EDIPN | $10 | edipn | alias | Alias, where alias\_type\_ref=22 |
| SSN | $9 | ssn | alias | Alias, where alias\_type\_ref=18. If length ne 9, then set to null. |
| Interim Person Identifier | $40 | ipi | alias | Alias, where alias\_type\_ref=106127789 |
| Foreign Identifier | $40 | foreign\_id | alias | Alias, where alias\_type\_ref=106127795 |
| **Fields from the Code Value Out File** |
| State | $30 | state | alias | Retrieve the alias where state\_ref matches code\_value\_ref and code\_set=62 |
| Country | $30 | country | alias | Retrieve the alias where country\_ref matches code\_value\_ref and code\_set=15 |
| Gender | $10 | gender | alias | Retrieve the alias where gender\_ref matches code\_value\_ref and code\_set=57 |
| Ethnicity | $22 | ethnic | alias | Retrieve the alias where ethnic\_group\_ref matches code\_value\_ref and code\_set=27 and contributor\_source\_ref = '105499759' |
| Race | $41 | race | alias | Retrieve the alias where race\_ref matches code\_value\_ref and code\_set=282 and contributor\_source\_ref = '105099617' |
| Marital Status | $20 | marital | alias | Retrieve the alias where marital\_status\_ref matches code\_value\_ref and code\_set=38 |
| Language | $20 | language | alias | Retrieve the alias where language\_ref matches code\_value\_ref and code\_set=36 |
| **Fields from the Code Value File** |
| Birth Weight Units | $10 | birth\_weight\_units | desc\_meaning | Retrieve the desc\_meaning where birth\_weight\_units matches code\_value\_ref and the code set =14659 |
| Religion | $40 | religion | desc\_display | Retrieve the desc\_display where religion\_ref matches code\_value\_ref and code\_set=49 |
| **Fields from the Person Name File** |
| Name suffix | $100 | suffix | name\_suffix | No transformation. |
| **Fields from the Phone Number File** |
| Home Phone Number | $20 | home\_phone | phone\_nbr | Most recently reported phone\_nbr (based on begin and end effective dates), where phone\_type\_ref=170. Only available in /restricted. |
| Work Phone Number | $20 | work\_phone | phone\_nbr | Most recently reported phone\_nbr (based on begin and end effective dates), where phone\_type\_ref=163. Only available in /restricted. |
| Cell Phone Number | $20 | cell\_phone | phone\_nbr | Most recently reported phone\_nbr (based on begin and end effective dates), where phone\_type\_ref=4149712. Only available in /restricted. |
| **Fields from DEERS VM6** |
| DEERS Eligibility Indicator | $1 | eligibility\_ind | d\_mhs\_elig\_indic | No transformation. |
| DEERS File Date | YYMM | deers\_month | d\_fde\_ext\_month | No transformation. |
| Sponsor SSN | $9 | sponssn | spn\_pn\_id | No transformation. |
| Beneficiary Category | $3 | bencat | r\_ben\_cat\_cd | No transformation. |
| HCDP - Enrolled | $3 | hcdp\_enr | d\_mi\_hcdp\_pln\_cvg\_cd | If enrollment group is P, L or U. |
| HCDP - Assigned | $3 | hcdp\_asgn | asg\_hcdp\_ pln\_cvg\_cd |  |
| PCM ID | $10 | pcm\_id | d\_mi\_pcm\_id | If enrollment group is P, L or U. |
| Enrollment MTF | $4 | enr\_dmisid | d\_mi\_pcm\_edvsn\_dmis\_id | If enrollment group is P, L or U. |
| Enrollment Group | $1 | enr\_grp | d\_enr\_grp\_cd | No transformation. |
| Eligibility Group | $1 | elg\_grp | d\_elg\_grp\_cd | No transformation. |
| Enrollment PCM Type | $1 | pcm\_type | d\_pcm\_typ\_cd | No transformation. |
| **Internally Derived Fields** |
| Test Record Indicator | $1 | test\_record\_ind | N/A | If any of the following are true set to 1:* Test patient indicator is 1 in feed; or
* Last name begins with QQQ; or
* Patient has no encounter; or
* Patient does not have a person relationship

Otherwise set to 0 |
| Encounter Flag | 8 | enc\_fl | N/A | If person\_sk has a record in the Encounter table, set to 1. |
| Relationship Flag | 8 | reltn\_fl | N/A | If person\_sk has a record in the Person-Person Relationship table, set to 1. |
| Workload Flag | 8 | wkld\_fl | N/A | If person\_sk has a record in the Encounter table, and the encounter type is not in(‘History’,‘Lifetime Pharmacy’), then set to 1. |

1. Refresh Frequency

## Weekly

1. Data Marts

N/A.

1. Special Outputs

N/A