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MHS GENESIS Location File BDE 3.0 for the MHS Data Repository (MDR)

Version 5.00.00

Revision History

Version	Date	Originator	Para/Tbl/Fig	Description of Change
1.00.00	5/21/2024	Tracy Comer	• Initial Document	• Initial Document
2.00.00	6/10/2025	Tracy Comer	• Table 3.0	• Updated logic for MTF and Test Location Flags • Addition of location_cd field • Adjusted length of location_sk • Added fields from DMIS ID table from address_line_1 through org_npi • Adjusted business rule for meprs_cd • Adjusted care_location_meaning variable name • Added nomeprs_flag, postal_code, and specialty_category
3.00.00	7/30/2025	Tracy Comer	• Table 3.0	• Updated logic for MTF and Test Location Flags
4.00.00	5/18/2026	Tracy Comer	• Table 2.0 • Table 3.0	• Updated logic for join to location group table • Updated logic for test flag • Addition of agency_adj
5.00.00	7/21/2026	Tracy Comer	• Table 3.0	• Addition of agency logic to MTF business rules • Addition to unit_display_adj logic • Removal of agency_adj logic

MDR Genesis Location File

I. BACKGROUND

This specification describes the transformation process required to create the Military Health System (MHS) Data Repository (MDR) GENESIS Location table based on data received from the Oracle Bulk Data Extract (BDE) 3.0 feeds.

II. SOURCE

The source system is the MHS GENESIS Oracle Millennium database.

III. RAW

All records in the Location table are based on data pulled from the raw MIP Redshift genesis_vw.location view. Table 1 provides a listing of raw Redshift views that are used during the creation of the MDR Encounter table.

Table 1: MIP Redshift Raw Source Views

Raw Source Table	View Name	Feed Description
Location	genesis_vw.location	Contains MHS GENESIS location record descriptors
Code Value	genesis_vw.code_value	Contains code value descriptions for codes associated with location records
Code Value Outbound	genesis_vw.code_value_outbound	Contains MEPRS code and DMIS ID information associated with location records
Location Group	genesis_vw.location_group	Contains information about the hierarchy relationship between locations
Time Zone R	genesis_vw.time_zone_r	Contains timezone code associated with each location
Organization	genesis_vw.organization	Contains details about the overall organization for a location, specifically if it is a DoD, VA, Coast Guard, or Test location

IV. UPDATE PROCESS

Once the dataset has been updated, the processor assigns other internally derived variables as described in Table 3.
Output products: A SAS dataset contains all current location records. The current location file is stored at /mdr/pub/genesis3/location/location.sas7bdat.

V. 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 location file. Table 1 describes the reference files that are used in processing.

Table 2 Merge Tables

Merge	Date Matching	Additional Matching
j5_aes.vw_gen_location_pat_sub	Only match records with the most recent updt_dt_tm and active_ind=1 in location_group file.	Location_ref
DMIS ID Index File	Current file for the current FY	Include Parent DMIS ID, Branch of Service, Facility Command Code, Facility NPI ID, Genesis Start Date, and Facility HIPAA taxonomy codes (where applicable) where MTF is populated.

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

VI. FILE LAYOUT

The MDR Genesis Location file is stored in a SAS data set. Table 3 provides the file layout and processing rules.

Table 3 File Layout for MDR Genesis Location File

Field	Format	SAS Name	Source Redshift Name	Source Element BDE 3.0	Transformation
Agency	$5	AGENCY	loc_pat_sub	agency	No transformation
DoD Clinic Group	$17	DOD_CLINIC_GROUP	loc_pat_sub	dod_clinic_group	No transformation
Facility Reference	$40	LOC_FACILITY_REF	loc_pat_sub	loc_facility_cd	No transformation
Building Reference	$40	LOC_BUILDING_REF	loc_pat_sub	loc_building_cd	No transformation
Unit Reference	$40	UNIT_REF	loc_pat_sub	loc_unit_cd	No transformation
Room Reference	$40	LOC_ROOM_REF	loc_pat_sub	loc_room_cd	No transformation
Bed Reference	$40	LOC_BED_REF	loc_pat_sub	loc_bed_cd	No transformation
Facility Description	$100	LOC_FACILITY_DESC	loc_pat_sub	loc_facility_cd_desc	No transformation

Field	Format	SAS Name	Source Redshift Name	Source Element BDE 3.0	Transformation
Building Description	$100	LOC_BUILDING_DESC	loc_pat_sub	loc_building_cd_desc	No transformation
Unit Description	$100	UNIT_NAME	loc_pat_sub	loc_unit_cd_desc	No transformation
Ambulatory Display	$100	LOC_AMBULATORY_DISP	null	null	No transformation
Building Display	$100	LOC_BUILDING_DISP	loc_pat_sub	loc_building_cd_disp	No transformation
Facility Display	$100	LOC_FACILITY_DISP	loc_pat_sub	loc_facility_cd_disp	No transformation
Nurse Unit Display	$100	LOC_NURSE_UNIT_DISP	null	null	No transformation
Surgery Display	$100	LOC_SURGERY_DISP	loc_pat_sub	loc_surgery_cd_disp	No transformation
Unit Display	$45	UNIT_DISPLAY	loc_pat_sub	loc_unit_cd_disp	No transformation
Room Description	$100	LOC_ROOM_DESC	loc_pat_sub	loc_room_cd_desc	No transformation
Bed Description	$100	LOC_BED_DESC	loc_pat_sub	loc_bed_cd_desc	No transformation
Begin Effective Date/Time	Date/Time	BEG_EFFECTIVE_DT_TM_UTC	loc_pat_sub	BEG_EFFECTIVE_DT_TM	No transformation
End Effective Date/Time	Date/Time	END_EFFECTIVE_DT_TM_UTC	loc_pat_sub	END_EFFECTIVE_DT_TM	No transformation
Active Indicator	N	ACTIVE_IND	loc_pat_sub	active_ind	No transformation
Update Date/Time	Date/Time	UPDT_DT_TM_UTC	loc_pat_sub	UPDT_DT_TM	No transformation
Location ID	N	LOCATION_CD	loc_pat_sub	location_cd	No transformation
Location Identifier	N	LOCATION_KEY	loc_pat_sub	location_cd	No transformation
Location Reference	$100	LOCATION_SK	loc_pat_sub	location_cd	Transformed location_cd to character
Organization Reference	$40	ORG_REF	loc_pat_sub	organization_id	No transformation
Location Facility Patient Care Node Indicator	N	LOC_FACILITY_PATCARE_NODE_IND	null	null	No transformation
Incomplete Hierarchy Indicator	N	INCOMPLETE_HIERARCHY_IND	null	null	No transformation
Source Active Indicator	N	SRC_ACTIVE_IND	loc_pat_sub	active_ind	No transformation

Field	Format	SAS Name	Source Redshift Name	Source Element BDE 3.0	Transformation
Location Type	$40	LOCATION_TYPE_REF	loc_pat_sub	location_type_cd	No transformation
Location Type Display	$60	LOCATION_TYPE	loc_pat_sub	location_type	No transformation
Organization Name	$40	ORGANIZATION_NAME	loc_pat_sub	org_name	No transformation
Time Zone	$150	TIME_ZONE	loc_pat_sub	time_zone	No transformation
DMIS ID Table					
Parent DMIS ID	$4	MTF_PARENT	N/A	N/A	Return ubu_par where DMIS ID matches derived mtf field
Address Line 1	$100	ADDRESS_LINE_1	N/A	N/A	Return facaddr where DMIS ID matches derived mtf field
Address Line 2	$100	ADDRESS_LINE_2	N/A	N/A	Return facbldg where DMIS ID matches derived mtf field
City	$100	CITY	N/A	N/A	Return faccity where DMIS ID matches derived mtf field
State	$50	STATE	N/A	N/A	Return facstate where DMIS ID matches derived mtf field
Zip Code	$50	FACZIP	N/A	N/A	Return faczip where DMIS ID matches derived mtf field
County	$50	COUNTY	N/A	N/A	Return faccounty where DMIS ID matches derived mtf field
Country	$50	COUNTRY	N/A	N/A	Return faccntry where DMIS ID matches derived mtf field
Facility Service	$1	SVC	N/A	N/A	Return finsvc where DMIS ID matches derived mtf field
GENESIS Start Date	N	GEN_BEGIN_DT	N/A	N/A	Return genesis_start_date where DMIS ID matches derived mtf field
Facility Command	$8	FAC_CMD	N/A	N/A	Return majcmnd where DMIS ID matches derived mtf field
Facility MSM	$3	FAC_MSM	N/A	N/A	Return msm_id where DMIS ID matches derived mtf field

Field	Format	SAS Name	Source Redshift Name	Source Element BDE 3.0	Transformation
Facility NPI	$10	FAC_NPI	N/A	N/A	Return parent_npi NPI2 where DMIS ID matches derived mtf field
Facility Taxonomy	$10	FAC_TAX	N/A	N/A	Return npitax where DMIS ID matches derived mtf field
Facility Type	$6	FACTYPE	N/A	N/A	Return factype where DMIS ID matches derived mtf field
Organization NPI	$100	ORG_NPI	N/A	N/A	Return npi2 where DMIS ID matches derived mtf field
Internally Derived Fields					

Field	Format	SAS Name	Source Redshift Name	Source Element BDE 3.0	Transformation
EPRS Code	$4	MEPRS_CD	N/A	N/A	Retrieve the alias where unit_ref is populated and not equal to '0' and matches code_value_ref and code_set=220, active_ind=1, contributor_source_ref='108 418263' and the location file record's updt_dt_tm falls between the begin and end_effective_dt_tms of the file. Then, parse from second portion of alias. If digits 1-4 equal "ARMY" or "NAVY" (not case specific), MEPRS Code should be parsed from digits 6 through 9. If digits 1 through 9 equal "AIR FORCE" (not case specific), then MEPRS Code should be parsed from digits 11 through 14. If the parsed value does not begin with 'A' 'B' 'C' 'D' 'E' 'F' or 'G', leave variable blank. Another way the above can be accomplished is to return the second portion of the fields when the value contains "-". If the parsed value does not begin with 'A' 'B' 'C' 'D' 'E' 'F' or 'G', leave variable blank. IF the alias does not begin with "ARMY", "NAVY", "AIR FORCE", just use first 4 digits of alias. If the parsed value does not begin with 'A' 'B' 'C' 'D' 'E' 'F' or 'G', leave variable blank.

Field	Format	SAS Name	Source Redshift Name	Source Element BDE 3.0	Transformation
MTF	$4	MTF	N/A	N/A	If agency='VA' or VA flag=1, ensure MTF is set to blank. If agency='DOD' and location_type contains 'Building' and if, after removing any leading "z"s or "DONOTUSE", the first and fourth character of the loc_building_cd_desc are numeric, then set MTF equal to the first 4 digits of the loc_building_cd_desc. If agency='DOD' and location_type contains 'Facility' and if, after removing any leading "z"s or "DONOTUSE", the first and fourth character of the loc_facility_cd_desc are numeric, then set MTF equal to the first 4 digits of the loc_facility_cd_desc. If the first and fourth character of the unit_display_adj are numeric, set MTF equal to the first 4 digits of the unit_display_adj. Else retrieve the alias where location_sk matches code_value_ref and code_set=220, active_ind=1, contributor_source_ref= '105099617'. If substr(alias,6,4) is a 4 digit numeric value, then this 4 digit value=MTF. Else MTF is blank.
Non MEPRS Reporting Flag	8	NOMEPRS_FLAG	N/A	N/A	If MEPR_PAR field from DMIS ID Index table where DMIS ID matches the derived mtf field is null, then nomeprs_flag=1. Else nomeprs_flag=0. If a location has a blank Parent_DMIS_ID in the Genesis data, this field will be equal to 1. If a site does not report MEPRS, blanks in the MEPRS_CD variable are not a concern

Field	Format	SAS Name	Source Redshift Name	Source Element BDE 3.0	Transformation
Parent DMIS ID of Record	$4	MTF_PARENT_REC	N/A	N/A	Set to blank
Postal Code	$5	POSTAL_CODE	N/A	N/A	Set equal to faczip
Care Location	$10	CARE_LOCATION	N/A	N/A	Second portion of the Unit Display after the first "-". If no dashes exist in the Unit Display field, leave blank.
Specialty	$10	SPECIALTY	N/A	N/A	Second portion of the Unit Display after the first "-". If no dashes exist in the Unit Display field, leave blank.
Health System Source Identifier	N	HEALTH_SYSTEM_SOURCE_ID	N/A	N/A	Set to null
Adjusted Nurse Unit Display	$45	UNIT_DISPLAY_ADJ	N/A	N/A	Remove leading "z"'s and "DONOTUSE" from unit_display variable.
VA Flag	8	VA_FLAG	N/A	N/A	If loc_facility_disp contains "VA" then va_flag=1; else va_flag=0.
ERSA Flag	8	ERSA_FLAG	N/A	N/A	If substr(factype,1,3)="ERS", then ersa_flag=1; else ersa_flag=0.
~~Adj Agency~~	~~$5~~	~~AGENCY_ADJ~~	~~N/A~~	~~N/A~~	~~If test_location_flag=0 and mtf ne ('0',''), then Agency_Adj='DOD'. Else if VA_Flag=1, then Agency_Adj='VA.' Else Agency_Adj=Agency.~~
Test Location Indicator	8	TEST_LOCATION_FLAG	N/A	N/A	If VA_Flag=0 and (MTF is null or ='0' or in('9991', '9992','9993','9994','9995','9996','9997','9998','9999','Small', 'Medium','Large') OR substr(unit_display_adj,1,3) ='MB ') then test_location_flag=1, otherwise it is 0.

Field	Format	SAS Name	Source Redshift Name	Source Element BDE 3.0	Transformation
Care Location Meaning	$40	CARE_LOCATION_MEANING	N/A	N/A	The definition field corresponding to the third portion of the Unit Display after the second "-". If no dashes exist in the Unit Display field, leave blank.
Specialty Code Category	$5	SPECIALTY_CATEGORY	N/A	N/A	From reference file like specialty_code_meaning
Specialty Code Definition	$40	SPECIALTY_CODE_MEANING	N/A	N/A	The definition field corresponding to the second portion of the Unit Display after the first "-". If no dashes exist in the Unit Display field, leave blank.

VII. REFRESH FREQUENCY

Weekly

VIII. DATA MARTS

N/A.

IX. SPECIAL OUTPUTS

N/A