**07 July 2020**

MHS GENESIS Surgery

for the MHS Mart (M2)

(Version 1.01.00)

Future Specification

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Originator** | **Para/Tbl/Fig** | **Description of Change** |
| 1.00.00 | 5/20/2020 | W. Funk | * Whole document
 | * New table in M2.
 |
| 1.01.00 | 7/7/2020 | C. Kangas | * Table 2
 | * Added several new fields.
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# M2 GENESIS Surgery

1. Source: The GENESIS Surgery data is provided to M2 by the MDR from the MDR GENESIS Surgery table.
2. File Format: Regardless of the length specified, all fields are variable length and delimited by a “|”. A null field will simply have an end of field delimiter (“|”) immediately following the previous field’s end of field delimiter.
3. File Content: Each feed file typically represents an incremental weekly update, although a full file refresh can also be created when needed. The Surgery table is not split by fiscal year, as it represents all surgeries captured in MHS GENESIS for all-time. Two source files are provided to the M2 each week: a “delete” file that is used to remove records, and an “add file” that is used to add new and updated records.
4. Organization and Batching: Each feed file consists of all records for all-time that were added, updated, or deleted from the MDR Surgery table. Feeds are not organized by fiscal year.
5. Frequency of Processing: Weekly updates.
6. Filters: Only completed surgeries (based on complete\_ind) and records where the patient is not a test patient are provided to the M2.
7. Updating the M2 Master Table: The M2 Surgery table is updated by removing records whose Record Key matches what is in the weekly feed “delete file”, and then appending the new “add file” feed.
8. Record Layout and Content

**Table 1: M2 GENESIS Surgery Delete File Layout**

| **Data Element** | **SAS Name for GENESIS based data** | **Format** | **Transformation** |
| --- | --- | --- | --- |
| Record Key | surg\_case\_proc\_sk | N(8) | No transformation |

**Table 2: M2 GENESIS Surgery Add File Layout**

| **Data Element** | **SAS Name** | **Format** | **Transformation** |
| --- | --- | --- | --- |
| Actual Start Date and Time | start\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Actual Stop Date and Time | stop\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| ACV Group | acvgroup | $15  | No transformation |
| Add On Indicator | add\_on\_ind | N(8) | No transformation |
| Age Group | agegrp | $1  | No transformation |
| Alternate Care Value | acv | $1  | No transformation |
| Anesthesia Begin Date and Time | anesth\_induction\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Anesthesia End Date and Time | anesthesia\_stop\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Anesthesia Prep Start Date and Time | anesthesia\_start\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Anesthesia Provider Stop Date and Time | anesth\_prov\_stop\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Anesthesia Type | anesthesia\_type | $40 | No transformation |
| Anesthesiologist EDIPN | anesthesiologist\_edipn | $10  | No transformation |
| Anesthesiologist Name | anesthesiologist | $100  | No transformation |
| Anesthesiologist NPI | anesthesiologist\_npi | $10  | No transformation |
| Anesthesiologist Primary HIPAA Taxonomy | anesthesiologist\_hipaa\_taxonomy | $10  | No transformation |
| ASA Class | asa\_class | $20  | No transformation |
| Bencat Common | comben | $1  | No transformation. Include description as a detail. |
| Beneficiary Category | bencat | $3  | No transformation. Include description as a detail. |
| Calendar Month | cm | $2  | No transformation |
| Calendar Year | cy | $4  | No transformation |
| Case Level | case\_level | $20  | No transformation |
| Check In Date and Time | check\_in\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Closing Start Date and Time | closing\_start\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Concurrent Indicator | concurrent\_ind | N(8) | No transformation |
| Date of Birth | patdob | yyyymmdd | No transformation |
| Department | dept | $40  | No transformation |
| Diagnosis 1 | dx1 | $7  | No transformation |
| Diagnosis 2 | dx2 | $7  | No transformation |
| Diagnosis 3 | dx3 | $7  | No transformation |
| Diagnosis 4 | dx4 | $7  | No transformation |
| Diagnosis 5 | dx5 | $7  | No transformation |
| Diagnosis Group | dxgrp | $2  | No transformation |
| Discharge Disposition | discharge\_disposition | $40  | No transformation |
| Person ID | edipn | $10  | No transformation. Restricted Universe only |
| Eligibility Group | elg\_grp | $1  | No transformation. Include description as a detail. |
| Encounter Date | encdate | yyyymmdd | No transformation |
| Encounter Key | encounter\_sk | $100  | No transformation |
| Encounter Type | encounter\_type | $40  | No transformation |
| Enrollment PCM Type | pcm\_type | $1  | No transformation |
| Enrollment Group | enr\_grp | $1  | No transformation. Include description as a detail. |
| Enrollment Site | denrsite | $4  | No transformation |
| Ethnic Group | ethnic | $1  | No transformation |
| Financial Number (FIN) | fin | $40  | No transformation |
| Fiscal Month | fm | $2  | No transformation |
| Fiscal Year | fy | $4  | No transformation |
| Gender | gender | $1  | No transformation |
| HCDP - Assigned | hcdp\_asgn | $3  | No transformation |
| HCDP – Enrolled | hcdp\_enr | $3  | No transformation |
| Institution | institution | $40 | No transformation |
| Major Diagnostic Category (MDC) | mdc | $2  | No transformation |
| Marital Status | marital | $1  | No transformation |
| Medical Service | medical\_service | $40  | No transformation |
| Medicare Eligibility Flag | medicare\_flag | $1  | No transformation |
| MEPRS Code | meprs\_cd | $4  | No transformation |
| MHS GENESIS Anesthesiologist ID | anesthesia\_prsnl | $100  | No transformation |
| MHS Genesis Person ID | person\_sk | $100  | No transformation |
| MHS GENESIS Primary Surgeon ID | primary\_surgeon\_prsnl | $100  | No transformation |
| Medical Record Number | mrn | $40  | No transformation. Restricted Universe only |
| Modifier Text | modifier\_txt | $255 | No transformation |
| Nurse Unit Location Code | unit\_display | $45  | No transformation |
| OR Ready Date and Time | or\_ready\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| OR Setup Date and Time | or\_setup\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Operating Room  | or | $40  | No transformation |
| Age | patage | 8 | No transformation |
| Patient In OR Date and Time | patient\_in\_or\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Patient in OR to Surgery Start Time | patient\_in\_to\_surg\_start | N(8) | No transformation |
| Patient In PACU Date and Time | patient\_in\_pacu\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Patient In Preop Area Date and Time | in\_preop\_holding\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Patient In SDS Recovery Unit Date and Time | patient\_in\_pacu\_ii\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Patient In to PACU Out Time | patient\_in\_to\_pacu\_out | N(8) |  No transformation |
| Patient Out OR Date and Time | patient\_out\_or\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Patient Out of PACU Date and Time | patient\_out\_pacu\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Patient Out of Preop Area Date and Time | out\_preop\_holding\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Patient Out of SDS Recovery Unit Date and Time | patient\_out\_pacu\_ii\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Patient Ready Date and Time | ready\_for\_surgeon\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Patient ZIP Code | deerszip | $5  |  No transformation |
| Beneficiary ID | patssn | $9  | No transformation. Restricted Universe only |
| Order ID | order\_sk | $100 | No transformation |
| PCM ID | pcm\_id | $18  | No transformation |
| Perioperative Document Type | perioperative\_doc\_type | $40  | No transformation |
| Person Association Reason Code | parc | $2 | No transformation |
| Preop Antibiotic Date and Time | preop\_antibio\_admin\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Primary Procedure Indicator | primary\_proc\_ind | N(8) | No transformation |
| Primary Case Record Indicator | d\_primary\_rec | N(8) | No transformation |
| Primary Surgeon EDIPN | surgeon\_edipn | $10  | No transformation |
| Primary Surgeon Name | primary\_surgeon | $100  | No transformation |
| Primary Surgeon NPI | surgeon\_npi | $10  | No transformation |
| Primary Surgeon Primary HIPAA Taxonomy | surgeon\_hipaa\_taxonomy | $10  | No transformation |
| Primary Surgeon Skill Type | surgeon\_skill\_type | $1  | No transformation |
| Privilege Code | privilege | $1 | No transformation |
| Procedure | procedure | $100 | No transformation |
| Procedure Code 1 | cpt1 | $5  | No transformation |
| Procedure Code 2 | cpt2 | $5  | No transformation |
| Procedure Code 3 | cpt3 | $5  | No transformation |
| Procedure Code 4 | cpt4 | $5  | No transformation |
| Procedure Code 5 | cpt5 | $5  | No transformation |
| Procedure Start Datetime | proc\_start\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Procedure Stop Datetime | proc\_stop\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Procedure Start to Stop Duration | proc\_start\_to\_stop | N(8) | No transformation |
| Race | race | $1  | No transformation |
| Record ID | surg\_case\_proc\_sk | N(8) | No transformation |
| Request Transport Date and Time | request\_transport\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Scheduled Anesthesia Type | sched\_anesthesia\_type | $40 | No transformation |
| Scheduled Modifier Text | sched\_modifier\_txt | $255 | No transformation |
| Scheduled Operating Room | sched\_or | $40  | No transformation |
| Scheduled Priority | sched\_priority | $40  | No transformation |
| Scheduled Procedure | sched\_procedure | $100 | No transformation |
| Scheduled Procedure Count | sched\_proc\_cnt | N(8) | No transformation |
| Scheduled Procedure Duration | sched\_proc\_duration | N(8) | No transformation |
| Scheduled Primary Procedure Indicator | sched\_primary\_proc\_ind | N(8) | No transformation |
| Scheduled Start Date and Time | sched\_start\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Scheduled Start to Patient in OR Time | sched\_start\_to\_patient\_in | N(8) | No transformation |
| Scheduled Stop Date and Time | sched\_stop\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Scheduled Surgical Area | sched\_surgical\_area | $40  | No transformation |
| Sponsor Service | dsponsvc | $1  | No transformation |
| Sponsor Service Aggregate | dsvcagg | $1 | No transformation |
| Sponsor ID | sponssn | $9  | No transformation. Restricted Universe only |
| Surgeon Arrival Date and Time | surgeon\_in\_room\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Surgeon Specialty of Case | case\_surgeon\_specialty | $100  | No transformation |
| Surgeon Specialty of Procedure | proc\_surgeon\_specialty | $100 | No transformation |
| Surgery Start to PACU Time  | surg\_start\_to\_pacu | N(8) |  No transformation |
| Surgical Area | surgical\_area | $40  | No transformation |
| Surgical Case Key (Millennium) | surgical\_case\_sk | N(8) | No transformation |
| Surgical Case Number | surgical\_case\_nbr\_formatted | $100  | No transformation |
| Time in PACU | time\_in\_pacu | N(8) |  No transformation |
| Time in PACU 1 | time\_in\_pacu\_1 | N(8) |  No transformation |
| Time in PACU 2 | time\_in\_pacu\_2 | N(8) |  No transformation |
| Time Out Date and Time | surgical\_time\_out\_dt\_tm | yyyy-mm-ddThh:mm:ss | No transformation |
| Treatment MTF | mtf | $4  |  No transformation |
| Unit Description | unit\_name | $100  |  No transformation |
| Wound Class Case Level | wound\_class\_case | $22  | No transformation |
| Wound Class Procedure Level | wound\_class\_proc | $22  | No transformation |

1. M2 Appended Fields: The M2 Surgery table as viewed in the M2 contains some inferred fields that are results from “joins” to other tables or other inference or some additional math. The table below contains those fields and the rules for applying.

**Table 3. M2 Appended Fields**

| **Data Element** | **Format** | **Transformation** |
| --- | --- | --- |
| Beneficiary First Name | $ | Join to MPI table by Person ID. Restricted universe only. |
| Beneficiary Last Name | $ | Join to MPI table by Person ID. Restricted universe only. |
| Beneficiary Name | $ | Last Name, First Name (e.g., DOE, JOHN). Restricted universe only. |
| Beneficiary T3 Region | $2 | See M2 Omni-CAD specification for business rules |
| Beneficiary T17 Region | $2 | See M2 Omni-CAD specification for business rules. |
| Catchment Area ID | $4  | See M2 Omni-CAD specification for business rules. |
| Catchment Area Name | $ | Match to DMIS ID table by FY and Catchment Area DMIS ID = DMIS ID from DMIS ID table and retrieve name |
| Catchment Area Command | $ | Match to DMIS ID table by FY and Catchment Area DMIS ID = DMIS ID from DMIS ID table and retrieve command |
| Catchment Area Military Service | $1  | Match to DMIS ID table by FY and Catchment Area DMIS ID = DMIS ID from DMIS ID table and retrieve service |
| Catchment Area MSMA | $3  | Match to DMIS ID table by FY and Catchment Area DMIS ID = DMIS ID from DMIS ID table and retrieve MSMA |
| Catchment Area Expanded Market | $8 | Match to DMIS ID table by FY and Catchment Area DMIS ID = DMIS ID from DMIS ID table and retrieve the expanded market |
| Catchment Area Reporting Market | $8 | Match to DMIS ID table by FY and Catchment Area DMIS ID = DMIS ID from DMIS ID table and retrieve reporting market |
| Catchment Area Readiness Command |  | Match to DMIS ID table by FY and Catchment Area DMIS ID = DMIS ID from DMIS ID table and retrieve readiness command |
| Enrollment Site Name | $ | Match to DMIS ID table by FY and Enrollment DMIS ID = DMIS ID from DMIS ID table and retrieve name |
| Enrollment Site Command | $ | Match to DMIS ID table by FY and Enrollment DMIS ID = DMIS ID from DMIS ID table and retrieve command |
| Enrollment Site Readiness Command | 4 | Match to DMIS ID table by FY and Enrollment DMIS ID = DMIS ID from DMIS ID table and retrieve readiness command |
| Enrollment Site Military Service | $1  | Match to DMIS ID table by FY and Enrollment DMIS ID = DMIS ID from DMIS ID table and retrieve service |
| Enrollment Site MSMA | $3  | Match to DMIS ID table by FY and Enrollment DMIS ID = DMIS ID from DMIS ID table and retrieve MSMA |
| Enrollment Site DHP Code | $1  | Match to DMIS ID table by FY and Enrollment DMIS ID = DMIS ID from DMIS ID table and retrieve DHP Code |
| Enrollment Site Parent ID | $4  | Match to DMIS ID table by FY and Enrollment DMIS ID = DMIS ID from DMIS ID table and retrieve parent |
| Enrollment Site Parent Name | $ | Match to DMIS ID table by FY and Enrollment Parent = DMIS ID from DMIS ID table and retrieve name |
| Enrollment Site Expanded Market |  | Match to DMIS ID table by FY and Enrollment Site = DMIS ID from DMIS ID table and retrieve the expanded market |
| Enrollment Site Reporting Market |  | Match to DMIS ID table by FY and Enrollment Site = DMIS ID from DMIS ID table and retrieve the reporting market |
| Enrollment Site T3 Region | $2 | Match to DMIS ID table by FY and Enrollment Site = DMIS ID from DMIS ID table and retrieve the T3 region |
| Enrollment Site T17 Region | $2 | Match to DMIS ID table by FY and Enrollment Site = DMIS ID from DMIS ID table and retrieve the T17 region |
| Enrollment Site Financial Parent | $4 | Match to DMIS ID table by FY and Enrollment Site = DMIS ID from DMIS ID table and retrieve the financial parent |
| Enrollment Site Financial Parent Name |  | Match to DMIS ID table by FY and Enrollment Site Financial Parent = DMIS ID from DMIS ID table and retrieve the Financial Parent |
| IIW Flag | $1  | If the beneficiary is in the IIW file, set to Y, else N |
| Market Area ID | $3  | Match by FY, FM and beneficiary zip code = zip code from CAD and retrieve MTF Service Area |
| MTF Service Area | $4  | See M2 Omni-CAD specification for business rules. |
| MTF Service Area Name | $ | Match to DMIS ID table by FY and MTF Service Area = DMIS ID from DMIS ID table and retrieve name |
| MTF Service Area Expanded Market |  | Match to DMIS ID table by FY where MTF Service Area = DMIS ID from the DMIS ID table and retrieve expanded market. |
| MTF Service Area Reporting Market |  | Match to DMIS ID table by FY where MTF Service Area = DMIS ID from the DMIS ID table and retrieve reporting market |
| Number of Records |   | Set to 1 for all rows |
| Prime Service Area | $1  | See M2 Omni-CAD specification for business rules. |
| PRISM Area ID | $4  | See M2 Omni-CAD specification for business rules. |
| PRISM Area Name | $ | Match to DMIS ID table by FY and PRISM Area DMIS ID = DMIS ID from DMIS ID table and retrieve name |
| PRISM Area Command | $ | Match to DMIS ID table by FY and PRISM Area DMIS ID = DMIS ID from DMIS ID table and retrieve command |
| PRISM Area Military Service | $ | Match to DMIS ID table by FY and PRISM Area DMIS ID = DMIS ID from DMIS ID table and retrieve service |
| PRISM Area MSMA | $3  | Match to DMIS ID table by FY and PRISM Area DMIS ID = DMIS ID from DMIS ID table and retrieve MSMA |
| PRISM Area Reporting Market |  | Match to DMIS ID table by FY and PRISM Area DMIS ID = DMIS ID from DMIS ID table and retrieve reporting market |
| PRISM Area Expanded Market |  | Match to DMIS ID table by FY and PRISM Area DMIS ID = DMIS ID from DMIS ID table and retrieve expanded market |
| Pseudo Beneficiary ID | $14  | Encryption algorithm applied to Person ID. |
| Pseudo Person ID | $14  | Encryption algorithm applied to Person ID. |
| Pseudo Sponsor ID | $14  | Encryption algorithm applied to Sponsor ID. |
| Pseudo MRN | $14  | Encryption algorithm applied to MRN |
| Reservist Status Code | $1  | See M2 Reservist specification for business rules. |
| Special Operations Code | $2  | See M2 Reservist specification for business rules. |
| Tmt DMIS ID Name | $ | Match to DMIS ID table by FY and Treatment DMIS ID = DMIS ID from DMIS ID table and retrieve name |
| Tmt DMIS ID Command | $ | Match to DMIS ID table by FY (Charted) and Treatment DMIS ID = DMIS ID from DMIS ID table and retrieve command |
| Tmt DMIS ID DHP Code | $1  | Match to DMIS ID table by FY (Charted) and Treatment DMIS ID = DMIS ID from DMIS ID table and retrieve DHP Code |
| Tmt DMIS ID Military Service | $1  | Match to DMIS ID table by FY (Charted) and Treatment DMIS ID = DMIS ID from DMIS ID table and retrieve Service |
| Tmt DMIS ID MSMA | $3  | Match to DMIS ID table by FY (Charted) and Treatment DMIS ID = DMIS ID from DMIS ID table and retrieve MSMA |
| Tmt DMIS ID Expanded Market | $ | Match to DMIS ID table by FY (Charted) and Treatment DMIS ID = DMIS ID from DMIS ID table and retrieve expanded market |
| Tmt DMIS ID Reporting Market | $ | Match to DMIS ID table by FY (Charted) and Treatment DMIS ID = DMIS ID from DMIS ID table and retrieve reporting market |
| Tmt DMIS ID T3 Region | $ | Match to DMIS ID table by FY (Charted) and Treatment DMIS ID = DMIS ID from DMIS ID table and retrieve t3 region |
| Tmt DMIS ID T17 Region | $ | Match to DMIS ID table by FY (Charted) and Treatment DMIS ID = DMIS ID from DMIS ID table and retrieve t17 region |
| Tmt Parent DMIS ID | $4  | Match to DMIS ID table by FY (Charted) and Treatment DMIS ID = DMIS ID from DMIS ID table and retrieve parent |
| Tmt Parent DMIS ID Name | $ | Match to DMIS ID table by FY (Charted) and Parent DMIS ID = DMIS ID from DMIS ID table and retrieve name |
| TPR Flag | $1  | Match by FY, FM (Charted) and beneficiary zip code = zip code from CAD and retrieve TPR Flag |
| Ever Deployed Flag (OCO) | $1  | See M2 CTS specification for business rules. |
| Days Since Most Recent OCO Depl | Num | See M2 CTS specification for business rules. This is a measure |
| Days Since Return from OCO Depl | $ | See M2 CTS specification for business rules. This is a dimension |
| Cumulative OCO Deployed Days | Num | See M2 CTS specification for business rules. |
| OCO Deployed Flag | $1  | See M2 CTS specification for business rules. |
| Case Management DMISID 1 | $4  | See M2 Case Management specification for business rules. |
| Case Management Acuity Level | $1  | See M2 Case Management specification for business rules. |
| Case Manager ID 1 | $14  | See M2 Case Management specification for business rules. |
| Case Manager ID 2 | $14  | See M2 Case Management specification for business rules. |
| Case Manager ID 3 | $14  | See M2 Case Management specification for business rules. |
| Enrollment Site Readiness Service |  $1 | Match to DMIS ID table by FY and Enrollment DMIS ID = DMIS ID from DMIS ID table and retrieve Readiness Service |
| Enrollment Site Readiness Parent |  $4 | Match to DMIS ID table by FY and Enrollment DMIS ID = DMIS ID from DMIS ID table and retrieve Readiness Parent |
| Tmt DMIS ID Readiness Service |  | Match to DMIS ID table by FY and Tmt DMIS ID = DMIS ID from DMIS ID table and retrieve Readiness Service |

1. Quality Review
* Record counts should match those contained in the transmittal letter representing each feed.
* The first and last 10 records in the files should be visually inspected to ensure proper formatting after loading.
1. File Location

Health Care Services / Direct Care / Surgery

1. Special Outputs: N/A