

MPI\*1\*84 Version 1:

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v1 (cmc) MPIC\_1185

HC IdM requested that the maximum authority score be changed from 1000 to a range of 775-1000. The default authority score during the Override Primary View Values [MPI DATA MGT PRIM VW OVERRIDE] option is not changing. Code changes will be made in places that check specifically for less than 1000 before allowing something to happen.

Routines: MPIBRC and MPIPBR2

v1 (rjh) MPIC\_1398

Routine MPIA43U was modified to update the Mismatched Patient Record Resolution [MPI DATA MGT MISMATCH PT RES] option. The option will now warn and prevent the moving of the "FROM" ICN to a "TO" ICN when there is an existing correlation for the selected Associated Facility.

Routine: MPIA43U

v1 (el) MPIC\_1614

The MPI HL7 processing routines were modified to only return an application acknowledgement if the sending system sends in AL^AL. If the sending system (e.g., PSIM) sends in AL^NE then MPI does not send back an APP ACK since that is ignored. This happens for ADT-A24 and ADT-A08 messages coming in from PSIM.

MPI only generates an A08 "AA" message if the Sending Facility sent in Application Ack Type MSH.16 is equal to "AL" and Sending Facility MSH.4 is not equal to "200ERR".

Routines: MPIA08 and MPIPVU

v1 (rjh) MPIC\_1759

When a patient middle name is deleted in VistA, but no other update occurs, that VistA correlation gets incorrectly updated on the MPI. Although Primary View is not changed, the synchronization to the VistA site to make the correction did not occur. Code has been added in routine MPIPBR2 to address this issue.

Routine: MPIPBR2

v1 (cml) MPIC\_1860

A31 sent to PSIM but Correlation no longer exists in 985.5:  
An error situation sometimes occurs with the tasked job that sends an update to PSIM. The problem is that a duplicate has occurred and by the time the tasked job runs, the deprecated ICN no longer has any correlations. Routine MPIA31H has been modified to check for the existence of a correlation.

Routine: MPIA31H

v1 (cml) MPIC\_1868

Note: This CR addresses changes to routine MPINPDAT that is also changed for MPIC\_1954. Please refer to that section for full information.

Routine: MPINPDAT

v1 (ptd) MPIC\_1945

Added/edited fields in the MPI FACILITY ASSOCIATION (#985.5) file  
as detailed below. Also created the "AID" and "AID2" cross-references.

DATA DICTIONARY #985.5 -- MPI FACILITY ASSOCIATION

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985.5,2           DFN                                   0;3 FREE TEXT (audited)

DESCRIPTION: The unique system assigned identifier at the identified  
facility for the patient/client.

985.5,3           SOURCE ID TYPE                   0;4 SET

DESCRIPTION: The SOURCE ID TYPE field defines the data source for  
this entry. The source ID type is a reference to the HL7 Table 0203,  
Identifier Type, and the VA Identity Management user defined values:  
NI (National Identifier), PI (Patient Identifier), PN (Person Number),  
EI (Employee Identifier), SS (Social Security Number), and NPI  
(National Provider Identifier).

985.5,4           ASSIGNING AUTHORITY           0;5 POINTER TO MPI ASSIGNING  
AUTHORITY FILE (#985.55)

DESCRIPTION: The ASSIGNING AUTHORITY field points to the MPI  
ASSIGNING AUTHORITY (#985.55) file in order to specify the type of  
identifiers needed for this entry. The ASSIGNING AUTHORITY selected will  
determine if identifiers should be in HL7 v3.0 format for National Health  
Information Network use or in HL7 v2.4 format for Non-Patient use in the  
future or existing PATIENT records.

Routines: NONE; DD updates only.

Documentation: MPI Technical Manual

v1 (gjw) MPIC\_1950

Routine MPIA37 now checks the sending site and sends an application reject (AR) when an ADT\_A37 (unlink patient data) originates from 200DOD. No further processing of the HL7 message occurs.

Routine: MPIA37

v1 (ckn) MPIC\_1951

Routine MPIADT was modified to enhance the MPI PID parser code to support HL7 v2.4 and HL7 v3.0 formatted identifiers.

While parsing the PID segment, for each Assigning Authority value, check the MPI ASSIGNING AUTHORITY (#985.55) file. If the value does not exist in the file, add the new value. Then, using the VAFC AA UPDATE Remote Procedure, share the new Assigning Authority value to all Treating Facilities for the ICN to update the Vista VAFC ASSIGNING AUTHORITY (#391.92) file. If an update for any Assigning Authority fails, an exception is logged in MPI SERVER EXCEPTION file under the MPI EXCEPTION.

Remote Procedure: VAFC AA UPDATE

Routines: MPIADT and MPIRPC6

v1 (cml) MPIC\_1954 and MPIC\_1868

(MPIC\_1954) EDAT display changes to support NHIN long data fields:

The new fields are:

1. SOURCE ID TYPE (2-3 characters)
2. DFN (maximum of 150 characters)
3. ASSIGNING AUTHORITY (pointer to file 985.55)

- Add SOURCE ID TYPE display to all correlations. If not defined, get

default from API SIDTYPE^MPIRPC5.

- Let all non 200N\* correlations and SITE ASSOCIATIONS, display as they currently do (except for the addition of SOURCE ID TYPE).
- For 200N\* correlations and SITE ASSOCIATIONS, move display of DFN as noted below and add ASSIGNING AUTHORITY.

(MPIC\_1868) EDAT display changes to support non-numeric DFNs:

When NHIN went live it was discovered they were sending non-numeric identifiers that are not showing up in the EDAT display.

Note: This was identified as an issue in production which did not have CR1954 (MPI\*1.0\*84). That CR had already fixed this issue. However, a non-NHIN site will not display a non-numeric DFN. So, the code changes to ^MPINPDAT for CR1868 will address that potential issue in case any other type of correlation (CHDR?) is able to have a non-numeric DFN.

Note: 8/31/10: An issue was discovered in integrated development testing with the display of PSEUDO SSN REASON. It was not displaying correctly if the SSN VERIFICATION STATUS was equal to null. This fix has been added.

Note: No documentation changes are being submitted as we are not displaying every possible DFN data value scenario.

Routine: MPINPDAT

v1 (ptd) MPIC\_1955

Routine MPIP84 populates the ASSIGNING AUTHORITY and SOURCE ID TYPE fields in the MPI FACILITY ASSOCIATION (#985.5) file and in the SITE ASSOCIATION (#71) multiple. Because this conversion routine is processing the MPI FACILITY ASSOCIATION (#985.5) file, it should be multi threaded. The routine can be queued to run 10 jobs, stopped, monitored, and restarted.

Routine: MPIP84

v1 (rjh) MPIC\_1956

API GETIEN^MPICOR(ID,IDTYPE,ASSIGNAU,ASSIGNFA)was created. When the Source ID, ID Type, Assigning Authority, and Assigning Facility are passed in, the IEN of the record in the MPI Facility Association (#985.5) file is returned.

Routine: MPICOR

v1 (ptd) MPIC\_1986

Added the MPI ASSIGNING AUTHORITY (#985.55) file as detailed below.

Exported entries 1-5 as detailed in the SDD.

DATA DICTIONARY #985.55 -- MPI ASSIGNING AUTHORITY FILE

-----  
985.55,.01 IDENTIFIER 0;1 NUMBER (Required)

DESCRIPTION: The IDENTIFIER is a DINUMED field used to distinguish an ASSIGNING AUTHORITY entry. An IDENTIFIER entry may contain information for either the Health Level Seven v2.4 or v3.0 standard, or both. Entries 1 through 5 are populated and exported with the file. New entries can be dynamically created as needed, and are likely to utilize only the HL7 v3.0 standard.

985.55,.02 HL7V2\_4 0;2 FREE TEXT

DESCRIPTION: The HL7V2\_4 field is the namespace ID subcomponent of the assigning authority component in the standard PID-3 identifier.

985.55,.03 HL7V3\_0 0;3 FREE TEXT

DESCRIPTION: The HL7V3\_0 field is the universal ID subcomponent of the assigning authority component in the standard PID-3 identifier.

985.55,.04 DEFAULT SOURCE ID TYPE 0;4 SET

DESCRIPTION: The DEFAULT SOURCE ID TYPE field defines the data source for this entry. The source ID type is a reference to the HL7 Table 0203, Identifier Type, and the VA Identity Management user defined values: NI (National Identifier), PI (Patient Identifier), PN (Person Number), EI (Employee Identifier), SS (Social Security Number), and NPI (National Provider Identifier).

Routines: NONE; DD updates only; Entries 1-5 exported with file.

Documentation: MPI Technical Manual

v1 (ptd) MPIC\_1987

Added a field to the MPI SITE MONITOR (#985.3) file as detailed below.

Also added the "AFO" cross-reference.

DATA DICTIONARY #985.3 -- MPI SITE MONITOR file

-----  
985.3,6 ASSIGNING FACILITY OID 0;5 FREE TEXT

DESCRIPTION: The ASSIGNING FACILITY OID field is used to map the home community ID, which is an ISO Standard OID, to a National Health Identifier Exchange entry in the INSTITUTION (#4) file. The National Health Information Network entries denoted in the MPI INSTALLED SITE (#.01) field all have names that begin with "NHIN" and station numbers that begin with "200N". An example would be the NHIN MEDVIRGINIA entry

with a station number of 200NMV. For the MEDVIRGINIA entry, the ASSIGNING FACILITY OID field contains the ISO Standard identifier reference.

985.3 ,40        DEFAULT SOURCE ID TYPE 1;21 SET

DESCRIPTION: The DEFAULT SOURCE ID TYPE field defines the data source for this entry. The source ID type is a reference to the HL7 Table 0203, Identifier Type, and the VA Identity Management user defined values: NI (National Identifier), PI (Patient Identifier), PN (Person Number), EI (Employee Identifier), SS (Social Security Number), and NPI (National Provider Identifier).

Routines: NONE; DD updates only.

Documentation: MPI Technical Manual

v1 (mko) MPIC\_1992

A new routine MPIAA was created with an extrinsic function entry point \$\$GETIEN. The \$\$GETIEN^MPIAA takes as an input parameter the value of an assigning authority in either HL7 2.4 or 3.0 formats, and returns the IEN of the corresponding entry in the MPI ASSIGNING AUTHORITY (#985.55) file. The code uses the HL24 index on field #.02 and the HL3 index on the field #.03 to do the lookup.

If the input parameter passed is null, an entry is not found, or more than one entry is found, the \$\$GETIEN^MPIAA(assigningAuthority) function returns -1^errorMessage.

Routine: MPIAA



v1 (mko) MPIC\_1994, MPIC\_2002, and MPIC\_2112

Expose the following MPI files as Cache SQL tables for PSIM:

- MPI PARAMETER (#985.1)
- MPI DO NOT LINK (#985.28)
- MPI SITE MONITOR (#985.3)
- MPI FACILITY ASSOCIATION (#985.5)
- MPI VETERAN/CLIENT (#985)
- MPI ASSIGNING AUTHORITY (#985.55)

Post-install routine MPI84PST has been modified to call an entry point in a new routine, MAPALL^MPICASH. MAPALL^MPICASH does the following:

1. Deletes existing classes in the MPI package.
2. Calls the FileMan to Cache SQL Mapping Tool (CASH) to map the above MPI files into the MPI package.
3. Sets the READONLY flag to 0 for the classes in the MPI package that start with "Mpi".
4. Recompiles all classes in the MPI package.

Routines: MPI84PST and MPICASH

v1 (ptd) MPIC\_1995

API to create an entry in the MPI ASSIGNING AUTHORITY (#985.55) file.

When a new NHIE is established, an entry will be added to the MPI ASSIGNING AUTHORITY (#985.55) file. The HL7V3\_0 (.03) and DEFAULT SOURCE ID TYPE (.04) fields are used to provide the universal ID subcomponent of the assigning authority component in the standard PID-3 identifier to facilitate messaging between the MPI and the new NHIE. The API returns the internal entry number (IEN) of the MPI ASSIGNING AUTHORITY (#985.55) file entry.

Routine: MPIAAUTL

v1 (mko) MPIC\_1998

The MPI GET ASSIGNING AUTHORITY Remote Procedure is a wrapper around the \$\$GETIEN^MPIAA entry point introduced in MPIC\_1992 (described above). The RPC returns the IEN of a record in the MPI ASSIGNING AUTHORITY (#985.55) file given the value of an Assigning Authority in either HL7 v2.4 format as stored in field #.02 (HL7V2\_4) or HL7 v3.0 format as stored in field #.03 (HL7V3\_0).

Routine: MPIAA

Remote Procedure: MPI GET ASSIGNING AUTHORITY

v1 (mko) MPIC\_1999

This Remote Procedure is a wrapper around the \$\$ADD^MPIAAUTL entry point introduced in MPIC\_1995 (described above). The RPC adds a record to the MPI ASSIGNING AUTHORITY file (#985.55) and returns the IEN of the entry that was added. If a record already exists with the given assigning authority value in either HL7 v2.4 or v3.0 format, the IEN of the existing record is returned.

Routine: MPIAA

Remote Procedure: MPI ADD ASSIGNING AUTHORITY

v1 (rjh) MPIC\_2001

API AFIENSTN^MPICOR(ASSIGNFA) was created that when given an Assigning Facility OID, will return the IEN and station number of the record in the MPI SITE MONITOR (#985.3) file. Note: The IEN of the MPI SITE MONITOR (#985.3) file is the same as the IEN in the INSTITUTION (#4) file.

Routine: MPICOR

v1 (mko) MPIC\_2002

Note: CRs 1994, 2002, and 2112 are documented together.

Please refer to the MPIC\_1994 section for full information.

v1 (el) MPIC\_2003

A Remote Procedure, MPI GET ALLOW, was written to accept the STATION NUMBER (#1) and SOURCE ID TYPE (#.01) field from the ALLOWABLE ACTION FILTER (#70) multiple in the MPI SITE MONITOR (#985.3) file. If the SOURCE ID TYPE is not provided, the value from the DEFAULT SOURCE ID TYPE (#40) field is used. For the 'HUB' (ALLOW PROB SEARCH) ACTION (#1), the RPC returns the value from the ALLOW (#2) field: "1^YES" or "0^NO".

Remote Procedure: MPI GET ALLOW

Option: MPI PSIM GUI INTERFACE

Routine: MPIRPC5

v1 (el) MPIC\_2004 (RPC) and MPIC\_2005 (API)

A Remote Procedure, MPI GET DEFAULT SOURCE ID TYPE, was written to accept the STATION NUMBER (#1) from the MPI SITE MONITOR (#985.3) file and pass the value to the \$\$SIDTYPE^MPIRPC5(STATION) API. The API returns the DEFAULT SOURCE ID TYPE (#40) field. The return value will be NI (National Identifier), PI (Patient Identifier), PN (Person Number), EI (Employee Identifier), SS (Social Security Number), or NPI (National Provider Identifier) in the first piece and a text message in the second piece.

Remote Procedure: MPI GET DEFAULT SOURCE ID TYPE

Option: MPI PSIM GUI INTERFACE

Routine: MPIRPC5

v1 (e1) MPIC\_2005

NOTE: See section above for MPIC\_2004

v1 (ptd) MPIC\_2012

Added/edited fields in the MPI DO NOT LINK (#985.28) file as detailed below. Also created the "DNL3" and "DNL4" cross-references.

DATA DICTIONARY #985.28 -- MPI DO NOT LINK FILE

-----  
985.28,.01 SOURCE ID 0;1 FREE TEXT (Required)

<<Increased the field length from 30 to 150 characters.>>

985.28,2 \*ASSIGNING AUTHORITY 0;3 SET <<Marked for deletion.

985.28,3 SOURCE ID TYPE 0;4 SET

<<Updated values for the set of codes.>>

985.28,4 ASSIGNING AUTHORITY 0;5 POINTER TO MPI ASSIGNING

AUTHORITY FILE (#985.55)

DESCRIPTION: The ASSIGNING AUTHORITY is the entity that established the patient identification number for the SOURCE ID entry. This field is a pointer to the MPI ASSIGNING AUTHORITY (#985.55) file, which is based on the Health Level Seven (HL7) standardized table 0363.

The ASSIGNING AUTHORITY field, combined with the SOURCE ID, ASSIGNING LOCATION, and SOURCE ID TYPE fields defines an entry that has been identified as different, and therefore not to be linked to the entry identified by the combined DNL ASSIGNING AUTHORITY, DNL SOURCE ID, DNL ASSIGNING LOCATION, and DNL SOURCE ID TYPE fields.

985.28,20 DNL SOURCE ID 1;1 FREE TEXT

<<Increased the field length from 30 to 150 characters.>>

985.28,22 \*DNL ASSIGNING AUTHORITY 1;3 SET <<Marked for deletion

985.28,23 DNL SOURCE ID TYPE 1;4 SET



v1 (ptd) MPIC\_2021

Added a field to the MPI SITE MONITOR (#985.3) file as detailed below.

DATA DICTIONARY #985.3 -- MPI SITE MONITOR file

-----  
985.3,30 CAPTURE QUERY RESULTS 1;11 SET

DESCRIPTION: The CAPTURE QUERY RESULTS field is used to determine if the results of a Q22 query should be captured for this facility. The flag will be set to NO for the existing North Chicago site (200NC), and in the future there may be additional facilities where we do not need to capture data.

The flag indicates if query results falling between the Auto Link Threshold and the Task Threshold should be captured when the RCP segment-2 value is '1'. The '1' is the Quantity Limited Request (QLR) value in the RCP segment telling the MPI how many records to return to the querying system.

Routines: NONE; DD updates only.

Documentation: MPI Technical Manual

v1 (el) MPIC\_2022

An API was written to get the value from the CAPTURE QUERY RESULTS (#30) field in the MPI SITE MONITOR (#985.3) file when the STATION NUMBER (#1) field is passed in. The API returns a value as "0^YES" or "1^NO".

Routine: MPIRPC5

v1 (ptd) MPIC\_2026

Added/edited fields in the SITE ASSOCIATION (#71) multiple of the MPI FACILITY ASSOCIATION (#985.5) file as detailed below. Also created the "AID" and "AID2" cross-references.

DATA DICTIONARY #985.571 -- SITE ASSOCIATION SUB-FILE

-----  
985.5,71           SITE ASSOCIATION           71;0 POINTER Multiple #985.571

985.571,2           DFN AT SITE                   0;3 FREE TEXT

DESCRIPTION: The DFN AT SITE field is the unique system assigned identifier for this SITE ASSOCIATION entry. It identifies the entry at the site to which this entry is related. DFN AT SITE is the FROM record DFN associated with the TO record DFN from a duplicate record merge at the VAMC.

985.571,4           SOURCE ID TYPE                   0;5 SET

DESCRIPTION: The SOURCE ID TYPE field defines the data source for this entry. The source ID type is a reference to the HL7 Table 0203, Identifier Type, and the VA Identity Management user defined values: NI (National Identifier), PI (Patient Identifier), PN (Person Number), EI (Employee Identifier), SS (Social Security Number), and NPI (National Provider Identifier).

985.571,5           ASSIGNING AUTHORITY           0;6 POINTER TO MPI ASSIGNING  
  AUTHORITY FILE (#985.55)

DESCRIPTION: The ASSIGNING AUTHORITY field points to the MPI ASSIGNING AUTHORITY (#985.55) file in order to specify the type of identifiers needed for this entry. The ASSIGNING AUTHORITY selected will determine if identifiers should be in HL7 v3.0 format for National Health Information Network use or in HL7 v2.4 format for Non-Patient use in the future or existing PATIENT records.

Routines: NONE; DD updates only.

Documentation: MPI Technical Manual

v1 (ptd) MPIC\_2027

Routine MPIP84 populates the ASSIGNING AUTHORITY (#5) and SOURCE ID TYPE (#4) fields in the SITE ASSOCIATION (#71) multiple of the MPI FACILITY ASSOCIATION (#985.5) file. This was done in conjunction with MPIC\_1955.

Routine: MPIP84

v1 (mko) MPIC\_2077

Implement an Attended Search Threshold that could be lower than the Task Threshold. For Display Only queries, allow results that are returned from PSIM to be returned to calling application if they have scores that are above the ATTENDED SEARCH THRESHOLD (#10.5) value.

Routine: MPIHQ22

v1 (mko) MPIC\_2105

Created new extrinsic functions \$\$MSGOUT^MPIPVU and \$\$MSGIN^MPIPVU that use the "AOUT" and "AIN" indexes of the MPI SITE MONITOR (#985.3) file to determine whether a site can receive (or send) a message of a given type for a SOURCE ID TYPE from (or to) a given source (or destination).

Routine: MPIPVVU

v1 (ptd) MPIC\_2107

Added fields to the MPI SITE MONITOR (#985.3) file as detailed below.

The "AOUT" cross-reference was also added.

DATA DICTIONARY #985.33 -- OUTBOUND MSG FILTER SUB-FILE



-----  
For each SOURCE ID TYPE, the OUTBOUND MSG FILTER multiple specifies whether or not an ACTION will be sent to the MPI INSTALLED SITE from a specified OUTBOUND SOURCE.

985.33,.01 SOURCE ID TYPE 0;1 SET

DESCRIPTION: The SOURCE ID TYPE field is the data source for this facility. Will an outbound message with a selected identifier, source, and ACTION be sent to this MPI INSTALLED SITE?

The source ID type is a reference to the HL7 Table 0203, Identifier Type, and the VA Identity Management user defined values: NI (National Identifier), PI (Patient Identifier), PN (Person Number), EI (Employee Identifier), SS (Social Security Number), and NPI (National Provider Identifier).

985.33,1 OUTBOUND SOURCE 0;2 SET

DESCRIPTION: OUTBOUND SOURCE refers to the system from which an outbound message originates. Currently, most data is sent via HL7 messages from the Master Patient Index (MPI). In the future, web services will be used to transmit the data directly from Person Services Identity Management (PSIM).

985.33,2 ACTION 0;3 SET

DESCRIPTION: The ACTION field defines the type of outbound message being sent by the MPI INSTALLED SITE. The ALLOW field will specify whether or not this ACTION will be allowed to take place.

985.33,3 ALLOW 0;4 SET

DESCRIPTION: The ALLOW field will specify whether or not a specific ACTION is allowed to take place for an outbound message to the MPI INSTALLED SITE.

Routines: NONE; DD updates only.

Documentation: MPI Technical Manual

v1 (ptd) MPIC\_2108

Added fields to the MPI SITE MONITOR (#985.3) file as detailed below.

The "AIN" cross-reference was also added.

DATA DICTIONARY #985.31 -- INBOUND MSG FILTER SUB-FILE

-----  
For each SOURCE ID TYPE, the INBOUND MSG FILTER multiple specifies whether or not an ACTION will be accepted from the MPI INSTALLED SITE for a specified INBOUND DESTINATION.

985.31,.01 SOURCE ID TYPE 0;1 SET (Multiply asked)

DESCRIPTION: The SOURCE ID TYPE field is the data source for this facility. Will an inbound message with a selected identifier, target, and ACTION be accepted from this MPI INSTALLED SITE?

The source ID type is a reference to the HL7 Table 0203, Identifier Type, and the VA Identity Management user defined values: NI (National Identifier), PI (Patient Identifier), PN (Person Number), EI (Employee Identifier), SS (Social Security Number), and NPI (National Provider Identifier).

985.31,1 INBOUND DESTINATION 0;2 SET

DESCRIPTION: INBOUND DESTINATION defines the system to which the inbound message is targeted. Currently most data comes in via HL7 messaging to the Master Patient Index (MPI). In the future, web services will be used to send the data directly to Person Services Identity Management (PSIM).

985.31,2 ACTION 0;3 SET

DESCRIPTION: The ACTION field defines the type of inbound message

being sent by the MPI INSTALLED SITE. The ALLOW field will specify whether or not this ACTION will be allowed to take place.

985.31,3           ALLOW                           0;4 SET

DESCRIPTION: The ALLOW field will specify whether or not a specific ACTION is allowed to take place for an inbound message from the MPI INSTALLED SITE.

Routines: NONE; DD updates only.

Documentation: MPI Technical Manual

v1 (ptd) MPIC\_2109

Added fields to the MPI SITE MONITOR (#985.3) file as detailed below.

The "ALLOW" cross-reference was also added.

DATA DICTIONARY #985.35 -- ALLOWABLE ACTION FILTER SUB-FILE

-----  
For each SOURCE ID TYPE, the ALLOWABLE ACTION FILTER multiple specifies whether or not the MPI INSTALLED SITE will be allowed to do the specific ACTION.

985.35,.01       SOURCE ID TYPE               0;1 SET (Multiply asked)

DESCRIPTION: The SOURCE ID TYPE field is the data source for this facility. For a specific SOURCE ID TYPE, will a MPI INSTALLED SITE be allowed to perform the selected ACTION?

The source ID type is a reference to the HL7 Table 0203, Identifier Type, and the VA Identity Management user defined values: NI (National Identifier), PI (Patient Identifier), PN (Person Number), EI (Employee Identifier), SS (Social Security Number), and NPI (National Provider Identifier).

985.35,1           ACTION                           0;2 SET

DESCRIPTION: Certain actions are only appropriate to be done by selected facilities. The ACTION field defines the type of activity. The ALLOW field will specify whether or not this ACTION can be performed by the MPI INSTALLED SITE.

985.35,2           ALLOW                           0;3 SET

DESCRIPTION: The ALLOW field will specify whether or not a specific ACTION is allowed to take place for the MPI INSTALLED SITE.

Routines: NONE; DD updates only.

Documentation: MPI Technical Manual

v1 (ptd) MPIC\_2110

- Added a field to the MPI PARAMETER (#985.1) file as detailed below.

DATA DICTIONARY #985.1 -- MPI PARAMETER file

-----  
985.1,10.5       ATTENDED SEARCH THRESHOLD ALGOR;6 NUMBER

DESCRIPTION: The ATTENDED SEARCH THRESHOLD is an override parameter value used by the attended search. The number entered is the lowest value allowed in order to get results from the Probabilistic Search back to the user requesting the search. Health Care Identity Management (HC IdM) can adjust the value higher or lower as defined by their business needs.

- Post init routine, MPI84PST, will add data in the ATTENDED SEARCH (#10.5) field in the MPI PARAMETER (#985.1) file. The value from HC IdM for the threshold number is 100.

- Added a field to the MPI SITE MONITOR (#985.3) file as detailed below. Also added the "ASRCH" cross-reference.

DATA DICTIONARY #985.3 -- MPI SITE MONITOR file

-----  
985.3,31           ALLOW ATTENDED SEARCH   1;12 SET

DESCRIPTION: The ALLOW ATTENDED SEARCH field specifies whether or not an attended search can be done for this facility. If allowed, then the value used for the Probabilistic Search will be the lower bound value from the ATTENDED SEARCH THRESHOLD field in the MPI PARAMETER (#985.1) file.

- Post init routine, MPI84PST, will populate the new fields distributed in the MPI SITE MONITOR (#985.3) file.

Routine: MPI84PST

DD updates

Documentation: MPI Technical Manual

v1 (mko) MPIC\_2112

Note: CRs 1994, 2002, and 2112 are documented together.

Please refer to the MPIC\_1994 section for full information.

v1 (cml) MPIC\_2113

Halt auto-resolution of duplicated exceptions for exception #260 (CHDR):  
HC IdM requested that the new CHDR Exceptions generated for HC IdM to process in the MPI Exception Handler not be auto-resolved if another exception involves the same record.

Routine: MPIXEPT

v1 (cml/ptd) MPIC\_2115:

During UAT of patch MPI\*1\*83 for DO NOT LINK functionality, it was found that records that are a "thief's" record in an identity theft scenario are not allowed to be altered. Here is what happens:

- Upon discovering the identity theft, the "thief" record is mismatched off to a new ICN but the traits remain the same as the "real" person. This creates the DO NOT LINK pairing for the patient and the thief.
- The "real" patient is registered at a new VAMC,
- Traits for this new patient record are updated to be an auto-link with the original patient and the thief (because thief data is not allowed to be updated).

This process results in all the patients being linked under one ICN, despite the DO NOT LINK entry for the mismatched records because the code does not look at the search results to see that they are DO NOT LINK for each other. HC IdM has said that just because ICNs A and C are DO NOT LINK and ICNs B and C are DO NOT LINK, does not mean that A and B are DO NOT LINK.

(ptd)

- Added a field to the MPI VETERAN/CLIENT (#985) file as detailed below. Also created the "IDTHEFT" cross-reference.

DATA DICTIONARY #985 -- MPI VETERAN/CLIENT file

-----  
985,24            IDENTITY THEFT            0;17 SET (audited)

DESCRIPTION: The IDENTITY THEFT field is used to designate that a specific record has been confirmed by Health Care Identity Management (HC IdM) staff to be involved in an identity theft occurrence. Once it

has been marked, the IDENTITY THEFT field will prevent good records from being linked or matched to the identify theft record.

Documentation: MPI Technical Manual

DD updates

(cml)

- Modify the current Mismatched Patient Record Resolution [MPI DATA MGT MISMATCH PT RES] option to ask, after user selects a record to be mismatched, if it is an ID Theft record. If yes, then inform the user that they can only create a new ICN and set the new IDENTITY THEFT (#24) field to Yes. If no, the process would continue as it does today.
- Created a new option, Flag ICN as Identity Theft Record [MPI DATA MGT ID THEFT FLAG] to allow HC IdM to mark an ICN as an identity theft record. The new option was placed on the Update MPI/PD Data [MPI DATA MGT UPDATE MENU] option.
- Added the new IDENTITY THEFT (#24) field to the MPI Patient Data Inquiry [MPI DATA MGT PDAT MPI] and MPI Extended Patient Data Inquiry [MPI DATA MGT PDAT EXT MPI] displays and display only if the field is set to YES.
- Added to the screen on the query results to remove any IDENTITY THEFT (#24) fields set to YES for any ICN.
- Modify the Primary View Updater API to include the IDENTITY THEFT (#24) field so it can be updated.
- Turned on auditing for the IDENTITY THEFT (#24) field in the MPI VETERAN/CLIENT (#985) file.

Routines: MPI84PST, MP1A43B, MPIHQ22, MP1M1DT, MP1MPDAT, MP1PRG, MP1PRU2, and MP1PV

Documentation: MPI User Manual

Options: Flag ICN as Identity Theft Record [MPI DATA MGT ID THEFT FLAG]

Update MPI/PD Data [MPI DATA MGT UPDATE MENU]

v1 (rjh) MPIC\_2124

Routine MPIRPC was modified to add auto note data to an entry in the MPI DATA MGT RESOLUTION JOURNAL (#985.2) file if there is an existing case for the deactivated ICN and the link of two ICNs is successfully completed.

Routine: MPIRPC

v1 (mko) MPIC\_2162

Comment lines in routine MPIRPC and the description of the RETURN PARAMETER DESCRIPTION of Remote Procedure MPI EVENT LIST were corrected to reflect the values actually returned by the RPC. For LINK records, the ID STATE was missing in the example of the returned array, and for DO NOT LINK records, the data after the "DO NOT LINK" string was shown to be delimited by vertical bars (|) rather than up-arrows (^).

Routine: MPIRPC

Remote Procedure: MPI EVENT LIST



v1 (cmc) MPIC\_2173

It was found during testing with NHIN that if a query returned an ICN multiple times, where the correlation score was at the potential match threshold and also under another correlation at the AUTO-LINK THRESHOLD, only the first score was being looked at. This resulted in the record failing to be linked. A change was made to the matching logic to look at the score to see if a match is now available and keep that value instead of the potential match value; and regardless of the threshold keep the highest score value. This will allow the highest score to be the value which is used for matching.

Routine: MPIHQ22

v1 (cmc) MPIC\_2205

It was found that the MPI ADD CORRELATION RPC was first validating all of the data fields and when all fields passed, then it continued with the ADDCOR, LINK COR, and UPDATE CORR processes. Validation was already built into the MPICOR API, so the validation was removed to work the same as the existing LINK process. It was also noted that if it failed on data issues it was not logging an exception to the MPI Exception Handler. If it failed on the initial add, no exception was logged but the error was returned to the caller. If the exception was logged it should not prevent the process from completing (i.e. the Treating Facility Broadcast) and should not return the error to the caller.

Routine: MPIRPC1

v1 (cmc) MPIC\_2227

During regression testing it was found that a verified Social Security Number could be updated with another Social Security Number. This should not be allowed. This could also happen in StagelA since MPI\*1\*84 is not installed there yet.

Routine: MPIPBR

v1 (ptd)

The following obsolete options have been added to the build as DELETE AT SITE.

Duplicate SSN Report [MPI DATA MGT DUP SSN MENU]

Duplicate SSN Report Print [MPI DATA MGT PRT DUP SSN RPT]

Print Site Breakout DUP SSN Totals by VISN [MPI DATA MGT PRT BRKOUT VISN]

Remote CMOR Update [MPI DATA MGT REMOTE CMOR UPDT]

Remote CMOR Push [MPI DATA MGT REMOTE CMOR PUSH]

Resolve MPI Duplicate [MPI DATA MGT DUP RES]

Edit CMOR of ICN on the MPI [MPI DATA MGT EDIT CMOR]

Check Application ACK Status [MPIM QUERY ACK CHECK INTERACT]

MPI\*1\*84 Version 2:

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V2 (cml for ptd) MPIC\_1995

SQA reported test case failed due to adding entries instead of sending back an error message:

VAL="-1^More than one ien found^8^9".

Analysis revealed a change to the case of variable IEN in ^MPIAA is the problem. ^MPIAAUTL needs to be modified to look for the new uppercase variable in text.

Routine: MPIAAUTL

v2 (ckn) MPIC\_1951

Issue was found in existing code where it parse all IDs from PID-3. The loop that was going through all IDs in MPIADT routine does not end after all IDs are parsed. New code change for Assigning authority update was relying on loop counter to setup an array of Assigning Authority and Source ID type for all IDs. As a result, this array had more subscripts with null entries than actual ID numbers. Due to null entries, it was logging exceptions for AA update fail while adding Assigning authority into MPI ASSIGNING AUTHORITY file. MPIADT is modified to handle the situation.

Routine: MPIADT

MPI\*1\*84 Version 3:

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v3 (cmc) MPIC\_2077

It was discovered during testing that the attended search threshold could allow the linking of records in the autolink threshold and no autolinking should be allowed during the attended search. The setting of the attended search threshold was placed with the TASK threshold instead of the autolink threshold and the IF statements that look at what the results were and the context was broken apart into multiple IFs to avoid any confusion or misinterpretation.

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Checksum and Completed Patch Description on MPI\*1.0\*84 v3:

Routine Checksum Values

Routine Name	Before Patch Value from Austin Production	After Patch Value from DEVMOU
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MPI84PST	N/A (New)	25294434
MPIA08	31542365	32638841
MPIA24P	55796915	65983529
MPIA31H	40314350	40669354
MPIA37	21747448	23130818
MPIA43B	28007682	31335471
MPIA43U	11773127	12670309
MPIAA	N/A (New)	619563
MPIAAUTL	N/A (New)	8606768

MPIADT	38662871	41185902
MPIBRC	8467280	8491062
MPICASH	N/A (New)	2974089
MPICOR	9389571	15101097
MPIHQ22	50015435	54842933
MPIMIDT	N/A (New)	3478858
MPIMPDAT	18957880	19886406
MPINPDAT	15810129	21600513
MPIP84	N/A (New)	26646186
MPIPBR	40454014	40436774
MPIPBR2	27202177	28339886
MPIPRG	11463422	11688066
MPIPRU2	13691437	14459763
MPIPV	61928977	62210015
MPIPVU	19132381	20094107
MPIRPC	31257174	31610615
MPIRPC1	21386800	21264673
MPIRPC5	N/A (New)	9090931
MPIRPC6	N/A (New)	4316505
MPIXEPT	12768319	12791049