MASTER PATIENT INDEX/PATIENT DEMOGRAPHICS (MPI/PD) V*IST*A

EXCEPTION HANDLING

Version 1.0

December 2001

Revised July 2010

Department of Veterans Affairs
Office of Information and Technology (OI&T)
Office of Enterprise Development (OED)

Revision History

Documentation Revision History

The following table displays the revision history for this document. Revisions to the documentation are based on continuous dialog with the Common Services (CS) Technical Writers and evolving industry standards and styles.

Date	Description	Author
07/2010	Updates via Patch RG*1*57: MPI_CR1893(MPI_CodeCR1982) as they apply to this manual: • The "PMR Potential Match Rev" action has been removed from the MPI/PD Exception Handling [RG EXCEPTION HANDLING] option. • All exceptions of type "Potential Matches Returned (218)" with the status NOT PROCESSED have been marked PROCESSED in the MPI/PD Exception Handling [RG EXCEPTION HANDLING] option. NOTE: The Potential Matches Returned exception in the VistA Exception Handler was made obsolete via VistA Patch MPIF*1*52 in that the logging of Potential Matches Returned exceptions was removed from the VistA HL7 message processor routines.	Susan Strack, Oakland OIFO; Paulette Davis, Birmingham OIFO; Danila Manapsal, Oakland OIFO, Project Manager
11/2009	Final updates to documentation implementing feedback from Product Support (PS) for national release.	Susan Strack, Oakland OIFO; Danila Manapsal, Oakland OIFO, Project Manager
8/2009	Updates via Patch RG*1*54: MPI_CR772(MPI_CodeCR1203) HC IdM requested the removal of VistA side bulletins and exceptions related to DOD as follows: These steps are documented in the attachments: 1. Remove "Remote Date of Death Indicated" messages. 2. Remove code references to three obsolete Date of Death exceptions. 215 - Death Entry on MPI not VISTA, 216 - Death Entry on Vista not MPI, and 217 - Death Entries on MPI and Vista DON'T MATCH. 3. Mark obsolete Date of Death exceptions as processed. A post-init routine will examine the NOT PROCESSED exceptions in the MPI/PD Exception Handling [RG EXCEPTION HANDLING] option. If there are any NOT PROCESSED 215, 216, or 217 exceptions they will be marked as PROCESSED MPI_CR1065(MPI_CodeCR1360) 3.1.9.4 - Create New MPI Exception Type for the Potential Mismatch. Updated the MPI/PD Exception Messages in Appendix A to include this information.	Paulette Davis, Birmingham OIFO; Susan Strack, Oakland OIFO; Danila Manapsal, Oakland OIFO, Project Manager

8/2009	Updated the "MPI/PD Exception Messages *Not* Listed on the Exception Handling Option" to include the new email "Potential Duplicate PATIENT Records Found by MPI" generated from KERNEL API to Create POTENTIAL DUPLICATE, UNVERIFIED Pairs.	Susan Strack, Oakland OIFO; Tami Winn, Oakland OIFO; Danila Manapsal, Oakland OIFO, Project Manager
7/2009	MPI_CodeCR1713: Identity Management Data Quality (IMDQ) name change to Healthcare Identity Management (HC IdM).	Susan Strack, Oakland OIFO; Danila Manapsal, Oakland OIFO, Project Manager
1/2009	MPI_CR1073 (MPI_CodeCR1429): 3.2.2 - Master Patient Index/Patient Demographics (MPI/PD) VistA Enhancements released with Patch MPIF*1*52: • Prevent logging of local exceptions for potential matches. • Auto-resolve existing VistA Potential Match exceptions. • Remove from the MPI/PD Exception Handler the action for resolving a Potential Match Exception and all associated screens and actions. This functionality will be supported by the IMDQ Toolkit.	Susan Strack, Oakland OIFO; Danny Reed, Birmingham OIFO; Danila Manapsal, Oakland OIFO, Project Manager
6/2008	MPI_CR772(MPI_CodeCR1203) Patch RG*1*52 makes the following changes in the MPI/PD software: • MPI/PD Patient Admin User Menu Removed The MPI/PD Patient Admin User Menu [RG ADMIN USER MENU] was distributed with patch RG*1.0*49 (released 4/10/08) as obsolete with an Out of Order message. This option is being distributed in this build as DELETE AT SITE in order to remove it from the menu structure. There are other MPI/PD options in the MPIF* and VAFC* namespaces that are also obsolete that will be removed in future MPIF* and DG* patches. • The following Date of Death exceptions in the MPI/PD Exception Handler have been made obsolete: - **Exception Type:** Death Entry on MPI not in VISTA. **Description:** MPI had Date of Death field populated. Vista did not have Date of Death. **Exception number:** 215. - **Exception Type:** Death Entry on Vista not in MPI. **Description:** VISTA had Date of Death field populated. MPI did not have Date of Death. **Exception number**: 216. - **Exception Type:** Death Entries on MPI and Vista DO NOT Match. **Description:** MPI and VistA had different dates of death for this patient. **Exception number:** 217. • REMOTE DATE OF DEATH INDICATED Bulletin Made Obsolete: - The Remote Date of Death Indicated notification message generated from the MPI has been made obsolete. This bulletin indicated that the patient had a date of death entered	Susan Strack, Oakland OIFO; Paulette Davis, Birmingham OIFO; Danila Manapsal, Oakland OIFO, Project Manager

	from the sending site but not at the receiving site. • Obsolete Data Removed from the Unresolved Exception Summary report: Data referencing the Patient Data Review and CMOR Requests Status has been removed from the Unresolved Exception Summary report. Those issues were made obsolete in earlier patches.	
4/2008	As of Patch RG*1*49 and DG*5.3*766, the Patient Data Review option has been disabled by placing the MPI/PD Patient Admin User Menu Out of order.	Susan Strack, Oakland OIFO; Paulette Davis, Birmingham OIFO; Danila Manapsal, Oakland OIFO, Project Manager
1/2008	A Remote Procedure Call (RPC) sends a request for data to the Master Patient Index (MPI) from VistA for the Primary View Display from MPI [RG PRIMARY VIEW FROM MPI] option, the View PV Rej Detail (PVR) action, and the MPI Primary View (PR) action on the MPI/PD Exception Handling [RG EXCEPTION HANDLING] option. This RPC has been updated Patch RG*1*53 to allow the query to be resent when delays are encountered.	Susan Strack, Oakland OIFO; Paulette Davis, Birmingham OIFO; Danila Manapsal, Oakland OIFO, Project Manager
12/2007	These are the Release Notes for Patch RG*1*50, which reflects Identity Management Data Quality's (IMDQ) request that the MPI/PD Exception Purge option, [RG EXCEPTION PURGE], be changed to process Primary View Reject exceptions similar to other MPI/PD exception types. Now, the purge job RG EXCEPTION PURGE eliminates duplicate exceptions for the same patient/exception type for *all* MPI/PD exception types, keeping only the most recent occurrence. ClearQuest Change Request: MPIC_771	Susan Strack, Oakland OIFO; Paulette Davis, Birmingham OIFO; Danila Manapsal, Oakland OIFO, Project Manager
8/2007	Documentation updates for the Patches RG*1*48 and MPIF*1*48, including functionality from Patch DG*5.3*756, which is part of the Master Patient Index (MPI) Changes Project, Iteration 4. • VA facilities now have the ability to remotely view Primary View patient identity fields on the Master Patient Index (MPI). This information is available on the MPI in the MPI Patient Data Inquiry [MPI DATA MGT PDAT MPI] option. The report generated by this option displays the current activity scores for individual patient identity fields (i.e., Primary View of the MPI). • The CIRN HL7 EXCEPTION LOG file (#991.1) has been modified to record VA facility personnel who use the MPI/PD Exception Handling option to resolved exceptions and the date/time the resolution occurred. Patch RG*1*48 adds the following new fields to File #991.1: - DATE/TIME PROCESSED field (#7) - WHO MARKED PROCESSED field (#8) This data is now being captured and Identity Management Data Quality (IMDQ) staff will have the capability to view this information. • A change has been made in the MPI/PD EXCEPTION	Susan Strack, Oakland OIFO; Danny Reed, Paulette Davis, Chris Chesney, Chris Link, and Dan Ihlenfeld, all from Birmingham OIFO; Dan Soraoka, Oakland OIFO, Project Manager

	HANDLING [RG EXCEPTION HANDLING] option. Upon selecting the MPI/PD Exception Handling option, instead of being prompted to run the exception purge, you are now notified when the last purge took place. The purge process runs automatically if it has not run within the past two hours; however, the MPI/PD EXCEPTION PURGE [RG EXCEPTION PURGE] option should be scheduled to run once an hour via Taskman. It can take a few minutes to run, but once the job is finished, you can go back to the Message Exception Menu and choose MPI/PD Exception Handling to view the results of the purge process. • A stand-alone option named View VistA Exceptions for Patient [MPI DATA MGT VISTA EXCEPTION] has been implemented on the MPI in Austin for the Identity Management Data Quality (IMDQ) team allowing them to query a VistA site for a selected patient and view all the existing VistA exceptions for a given date range. The VistA side support for this new MPI option came in as part of Patch RG*1*48.	
3/2007	As of Patches MPIF*1*46 and RG*1*44, this documentation has been updated to reflect the following: Patch MPIF*1*46: • Updated screening to prevent Primary View Reject exceptions from entering the Potential Matches Returned logic. • Changed exception text for the new Primary View Reject exception. Patch RG*1*44: • Functionality incorporated into the MPI/PD Exception Handling RG EXCEPTION HANDLING option to automatically process the "Primary View Reject" exceptions. Name change for exception action that processes reject exceptions "PVR View PV Rej Detail." • MPI/PD Exception Purge process updated. For every date that an exception occurs for a patient, the exception occurs in the Exception Handler for review. However, if more than one active Primary View Reject exception occurs during the same day for the same patient, the purge will remove the duplicate occurrences, leaving only the most recent.	Susan Strack, Oakland OIFO; Danny Reed, Birmingham OIFO; Paulette Davis, Birmingham OIFO; Chris Chesney, Birmingham OIFO; Dan Ihlenfeld, Birmingham OIFO; Dan Soraoka, Oakland OIFO, Project Manager
1/2007	As of Patches MPIF*1*44 the concept of a "CMOR facility" is being phased out and will be replaced by the Primary View when Patch MPI*1*40 is installed on the Austin MPI. VistA Patch MPIF*1*44 sets all VistA options related to "CMOR" out of order, rendering them obsolete. The OUT OF ORDER MESSAGE field for these options is marked as "Obsolete with Patch MPIF*1*44."	Susan Strack, Oakland OIFO; Danny Reed, Birmingham OIFO; Paulette Davis, Birmingham OIFO; Chris Chesney, Birmingham OIFO; Dan Ihlenfeld, Birmingham OIFO; Dan Soraoka, Oakland OIFO, Project Manager
4/2006	Updates to documentation based on Patches MPIF*1*43 and RG*1*43, which comprise the changes to the MPI/PD software	Susan Strack, Oakland OIFO;

	resulting from the Health Eligibility Center (HEC) Enumeration to the Master Patient Index (MPI).	Christine Chesney, Birmingham OIFO; Paulette Davis, Birmingham OIFO; Dan Soraoka, Oakland OIFO, Project Manager
12/2004	Implemented new conventions for displaying TEST data. See Orientation section for details.	Susan Strack, Oakland OIFO
5/2004	MPI/PD VistA Version 1.0 User Manual released in conjunction with patches MPIF*1*33, RG*1*35 and DG*5.3*589 to support the MPI Changes Iteration 2 project.	Susan Strack, Oakland OIFO; Christine Chesney, Oakland OIFO; Christine Link, Birmingham OIFO; Paulette Davis, Birmingham OIFO
12/2003	Updates to documentation based on Patch RG*1*29.	Susan Strack, Oakland OIFO; Lauren Hardeen, Bay Pines OIFO
6/2003	Updates to screen captures and minor changes to text	Lauren Hardeen, Bay Pines OIFO; Susan Strack, Oakland OIFO
11/2002	Updates to screen captures and minor changes to text.	Lauren Hardeen, Bay Pines OIFO
12/2001	MPI/PD VistA Exception Handling	Dianne Barker, Silver Spring OIFO

Table i: Documentation Revision History

Patch History

For the current patch history related to this software, please refer to the Patch Module (i.e., Patch User Menu [A1AE USER]) on FORUM.

Contents

Figures

Tables

Orientation

How to Use this Manual

This manual uses several methods to highlight different aspects of the material. The following symbols are used in the manual to alert the reader about special information:

- Various symbols are used throughout the documentation to alert the reader to special information. The following table gives a description of each of these symbols:

Symbol	Description
	**NOTE:** Used to inform the reader of general information including references to additional reading material
	**CAUTION: Used to caution the reader to take special notice of critical information**

Table ii: Documentation Symbol Descriptions

- Descriptive text is presented in a proportional font (as represented by this font).
- "Snapshots" of computer online displays (i.e., character-based screen captures/dialogs) and computer source code are shown in a *non*-proportional font and enclosed within a box. Also included are Graphical User Interface (GUI) Microsoft Windows images (i.e., dialogs or forms).
    - User's responses to online prompts will be boldface type.
    - The "**<Enter>**" found within these snapshots indicate that the user should press the Enter or Return key on their keyboard.
    - Author's comments are displayed in italics or as "callout" boxes.

    

    NOTE: Callout boxes refer to labels or descriptions usually enclosed within a box, which point to specific areas of a displayed image.

- All uppercase is reserved for the representation of M code, variable names, or the formal name of options, field and file names, and security keys (e.g., the XUPROGMODE key).
- Conventions for displaying TEST data in this document are as follows:
    - The first three digits (prefix) of any Social Security Numbers (SSN) will begin with either "000" or "666".
    - Patient and user names will be formatted as follows:

        [Application Name]PATIENT,[fictitious given name] and [Application Name]USER,[fictitious given name] respectively

        The "Fictitious given name" represents a fabricated given name for the patient or user. This is done to more clearly represent patient and user names used in descriptive text in

this documentation. For example, for the Master Patient Index (MPI) test patient and user names would be documented as follows: MPIPATIENT,NANCY; MPIPATIENT,SAM; MPIPATIENT,DEBRA; etc. and MPIUSER,RICH; MPIUSER,JOHN; etc.

Reference Materials

In order to competently operate this package you must be familiar with the operations of the VistA computer system, in general. This information can be obtained at the following Office of Enterprise Development - VistA & HealtheVet Development Web site:

http://vaww.vista.med.va.gov

Readers who wish to learn more about the Master Patient Index (MPI) / Patient Demographic (PD) software should consult the following Web sites:

- VA Software Document Library at the following address:

  http://www.va.gov/vdl/application.asp?appid=16

  The MPI/PD VistA product documentation, as found at the link above, includes the following manuals:

  - *Master Patient Index/Patient Demographics (MPI/PD) VistA User Manual*
  - *Master Patient Index/Patient Demographics (MPI/PD) VistA HL7 Interface Specifications*
  - *Master Patient Index/Patient Demographics (MPI/PD) VistA Technical Manual*
  - *Master Patient Index/Patient Demographics (MPI/PD) VistA Exception Handling*
  - *Master Patient Index/Patient Demographics (MPI/PD) VistA Programmer Manual*
  - *Master Patient Index (MPI) VistA Monograph*

  Also see the following VistA Duplicate Record Merge product documentation, found at the following link http://www.va.gov/vdl/application.asp?appid=2 , includes the following manuals:

  - *Duplicate Record Merge: Patient Merge Release Notes for Kernel Toolkit Patch XT*7.3*113.*
  - *Duplicate Record Merge: Patient Merge User Manual, Version 7.3, Patch XT*7.3*113*
  - *Duplicate Record Merge: Patient Merge Technical Manual, Version 7.3, Patch XT*7.3*113*

- Master Patient Index (MPI) Web site:

  http://vista.med.va.gov/mpi/index.asp

- Healthcare Identity Management (HC IdM) team at:

  http://vista.med.va.gov/mpi_dqmt/

- Security & Other Common Services at:

  http://vista.med.va.gov/iss/

Installation Information and Procedures

The Master Patient Index VistA and Patient Demographics (PD) were distributed and installed together. All installation information and procedures involved with the MPI VistA is included in the following MPI/PD VistA document:

- *CIRN Patient Demographics (CIRN-PD) Pre-Installation and Implementation Guide v.5*

Interaction Between MPI/PD and Other Packages

Because of the close interaction between MPI/PD and other packages, you may also find it helpful to review the documentation for the following VistA software:

- VistA *HL7 V. 1.6*
- *PIMS V. 5.3 Admission, Discharge and Transfer (ADT)*

VistA documentation is made available online in Microsoft Word format and in Adobe Acrobat Portable Document Format (PDF). Adobe Acrobat Portable documents *must* be read using the Adobe Acrobat Reader (i.e., ACROREAD.EXE), which is freely distributed by Adobe Systems Incorporated at the following web address:

http://www.adobe.com/

DISCLAIMER: The appearance of external hyperlink references in this manual does not constitute endorsement by the Department of Veterans Affairs (VA) of this Web site or the information, products, or services contained therein. The VA does not exercise any editorial control over the information you may find at these locations. Such links are provided and are consistent with the stated purpose of the VA.

Chapter 1: Introduction

Overview of MPI/PD Site Information and Assistance on Resolving MPI/PD Exception Messages

This documentation provides Master Patient Index/Patient Demographics (MPI/PD) sites information and assistance on resolving MPI/PD exception messages:

- Chapter 2 documents patient-related and master file update bulletins sent to the RG CIRN DEMOGRAPHIC ISSUES mail group designed to alert Patient Administration of problems related to information processing.
- Chapter 3 provides information on how to use the MPI/PD Exception Handling option to process and resolve exception messages. The Patient MPI/PD Data Inquiry option is also documented as it pertains to exception handling. This option shows you patient information at your site that is useful when dealing with exception messages.
- Chapter 4 provides strategies for resolving the various exception message types, both included and not included in the MPI/PD Exception Handling option.

NOTE: The MPI/PD Exception Handling option uses a VistA List Manager interface to display exception messages and process the actions involved in resolving them.

NOTE: As of Patch RG*1*48, the CIRN HL7 EXCEPTION LOG file (#991.1) has been modified to record VA facility personnel who use the MPI/PD Exception Handling option to resolved exceptions and the date/time the resolution occurred. The following new fields have been added to File #991.1:

- DATE/TIME PROCESSED field (#7)
- WHO MARKED PROCESSED field (#8)

This data is now being captured and Healthcare Identity Management (HC IdM) staff will have the capability to view this information.

NOTE: A stand-alone option named View VistA Exceptions for Patient [MPI DATA MGT VISTA EXCEPTION] has been implemented on the MPI in Austin for the Healthcare Identity Management (HC IdM) team allowing them to query a VistA site for a selected patient and view all the existing VistA exceptions for a given date range. The VistA side support for this new MPI option came in as part of Patch RG*1*48.

MPI Identity Hub Project for the Healthcare Identity Management (HC IdM) Team

As of the release of MPI/PD Patches MPIF*1*52 and RG*1*54, the MPI Identity Hub for Healthcare Identity Management (HC IdM) was implemented enabling the change from the current MPI patient deterministic lookup to an Identity Hub based probabilistic patient lookup.

Initiate was purchased to be integrated with the MPI and Person Service Identity Management (PSIM) for the purpose of improving the matching of patients and persons across VHA. PSIM will serve as the interface to the commercial Identity Management system and the MPI will interact with PSIM.

The Initiate centralized probabilistic search algorithm will replace the local VistA KERNEL DUPLICATE RECORD MERGE search process for identifying local potential duplicate PATIENT file (#2) records. When the search algorithm identifies potential duplicates, they are automatically added to the VistA DUPLICATE RECORD file (#15).

NOTE: For more information on the VistA DUPLICATE RECORD MERGE release, please refer to Kernel Toolkit Patch XT*7.3*113.

Chapter 2: Bulletins Sent to the RG CIRN DEMOGRAPHIC ISSUES Mail Group

Several bulletins are sent to the RG CIRN DEMOGRAPHIC ISSUES mail group. These are designed to alert Patient Administration of problems related to information processing. They are:

Patient-Related bulletins:

- Remote Sensitivity Indicated

Master File Update bulletins:

- Patient Not Found (Treating Facility type)
- Inconsistent Data (Treating Facility type)

Patient-Related Bulletins

These messages concern any changes in demographic information for a particular patient. All incoming patient-related messages go through the same validation steps.

1. Do a match on SSN, and Coordinating Master of Record Site (CMOR)

The first step is the check on the incoming HL7 message to insure that certain data in the incoming message matches the information for the patient at the receiving system. This insures that this is the same patient. Data fields that are checked are the ICN and the CMOR. If these fields do not match, an Inconsistent Data bulletin is generated. In addition, the system compares the SSN; if they do not match, the system will still process the HL7 message and update the patient. It will also add the patient to the exception list and fire off this bulletin.

```
Subj: MPI/PD - INCONSISTENT DATA  [#93364] 23 Apr 06 14:23  51 Lines
From: MPI/PD PACKAGE  in 'IN' basket. Page 1
------------------------------------------------------------------------------
The MPI/PD Package has received a message from:
ALBANY, NY --> Site Number: 500
This message contains data that is inconsistent
with your site's data.

Local Name: MPIPATIENT,GLENDA
Local SSN: 666438885
Local ICN: 1000304603
Local CMOR: BATAVIA, NY
------------------------------------------------------
Remote Data
FIELD: .01 = MPIPATIENT,GLENDA
FIELD: .02 = FEMALE
FIELD: .03 = 2340512
FIELD: .05 = DIVORCED
FIELD: .08 = ISLAM
FIELD: .09 = 666438885
FIELD: .097 = 2980423
FIELD: .111 = NANCY STREET SENS
FIELD: .1112 = "@"
FIELD: .112 = "@"
FIELD: .113 = "@"
FIELD: .114 = "@"
FIELD: .115 = "@"
FIELD: .117 =
FIELD: .131 = "@"
FIELD: .132 = "@"
FIELD: .211 = "@"
FIELD: .219 = "@"
FIELD: .2403 = "@"
FIELD: .301 = NO
FIELD: .302 = "@"
FIELD: .31115 = "@"
FIELD: .323 = "@"
FIELD: .351 = "@"
FIELD: .361 = EMPLOYEE
FIELD: .3612 = "@"
FIELD: .3615 = "@"
FIELD: 391 = EMPLOYEE
FIELD: 991.01 = 1000304603
FIELD: 991.02 = 842887
FIELD: 991.03 = ALBANY, NY
FIELD: 1901 = NO
FIELD: DFN = 7169753
FIELD: FLD = .111;
FIELD: SENDING SITE = 500
FIELD: SENSITIVITY = "@"
FIELD: SENSITIVITY DATE = "@"
FIELD: SENSITIVITY USER = "@"
FIELD: SITENUM = 500
```

Figure 2-1: Inconsistent Data bulletin

2. Remote Sensitivity Indicated

Now that you have verified you are working with the correct patient, the system checks the incoming HL7 message to see if the patient is marked as a "Sensitive" patient at the sending site, but not at the receiving site. If this is true, a Remote Sensitivity Indicated bulletin is generated. This is a clue that you may wish to mark the patient's record as "Sensitive" at the receiving site.

```
Subj: Remote Sensitivity Indicated  [#93001] 11 Mar 06 13:18  8 Lines
From: MPI/PD PACKAGE  in 'IN' basket. Page 1  **NEW**
------------------------------------------------------------------------
The MPI/PD Package has received a message from:
ALBANY, NY --> Site Number: 500

This message indicates that Pt. MPIPATIENT,GLENDA is flagged as Sensitive at
the other facility but is not flagged as Sensitive at your facility.
Remote Patient SSN:xxxxxxxxxxxxxxx
Remote User Who Flagged the Pt as Sensitive: MPIUSER,EMPLOYEE
Date/time remote user Flagged Pt Sensitive:  Feb 04, 2006@13:38
```

Figure 2-2: Remote Sensitivity Indicated bulletin

Chapter 3: Exception Message Processing

This chapter provides information and assistance to Master Patient Index/Patient Demographics (MPI/PD) sites on how to use the MPI/PD Exception Handling option to process and resolve MPI/PD exception messages. The Patient MPI/PD Data Inquiry option is also documented as it pertains to exception handling. This option shows you patient information at your site that is useful when dealing with exception messages.

This manual makes no attempt to document all the Message Exception Menu options. The MPI/PD Exception Handling and Patient MPI/PD Data Inquiry options are the primary focus of MPI/PD exception messaging and are documented in detail in this chapter.

The Message Exception Menu options listed below are *not* documented in this manual:

- Remote Patient Data Query Menu ...
- Display Only Query
- Primary View Display from MPI

All options located on the Message Exception Menu are documented in detail in the "Master Patient Index/Patient Demographics (MPI/PD) Vista User Manual" found at the following Web site:

http://www.va.gov/vdl/Infrastructure.asp?appID=16 .

Use MPI/PD Exception Handling Option to Process/Resolve MPI/PD Exception Messages

The MPI/PD Exception Handling option provides utilities for processing MPI/PD exceptions in the CIRN HL7 EXCEPTION LOG file (#991.1). This List Manager based option displays exceptions and allows the user to choose an exception case for review and resolution.

Select the MPI/PD Exception Handling option on the MPI/PD Patient Admin Coordinator Menu [RG ADMIN COORD MENU] and choose the Message Exception Menu [RG EXCEPTION MENU], Figure 3-1.

```
Select MPI/PD Master Menu Option: COR <Enter> MPI/PD Patient Admin Coordinator Menu

  <<-------------------------------------------------------------------------->>
  << You have Primary View Reject exceptions that need to be reviewed using >>
  << the MPI/PD Exception Handling Option on the Message Exception Menu.    >>
  <<-------------------------------------------------------------------------->>

   LOG    Patient Audit Log Reports ...
   MSG    Message Exception Menu ...
   RPT    Management Reports ...
   POC    Add/Edit Point of Contact

Select MPI/PD Patient Admin Coordinator Menu Option: MSG <Enter> Message Exception
Menu

          MPI/PD Exception Handling
          Patient MPI/PD Data Inquiry
          Remote Patient Data Query Menu ...
          Display Only Query
          Primary View Display from MPI

Select Message Exception Menu Option: MPI/PD Exception Handling
```

Figure 3-1: Select MPI/PD Exception Handling option on the MPI/PD Patient Admin Coordinator Menu

Changes to the MPI Purge Process

A change has been made in the MPI/PD EXCEPTION HANDLING [RG EXCEPTION HANDLING] option. Upon selecting the MPI/PD Exception Handling option, instead of the MPI prompting the user if they want to run the exception purge, you are now notified when the last purge took place, Figure 3-2. The purge process runs automatically if it has not run within the past two hours; however, the MPI/PD EXCEPTION PURGE [RG EXCEPTION PURGE] option should be scheduled to run once an hour via Taskman. It can take a few minutes to run, but once the job is finished, you can go back to the Message Exception Menu and choose MPI/PD Exception Handling to view the results of the purge process.

If for any reason the task becomes unscheduled, the time that the purge process last ran will be displayed upon entry into the Exception Handler and this message will be displayed: Please notify IRM if the MPI/PD EXCEPTION PURGE [RG EXCEPTION PURGE] job needs to be rescheduled.

NOTE: ATTENTION IRM: After patch RG*1*48 has been successfully installed, the MPI/PD Exception Purge [RG EXCEPTION PURGE] option should be scheduled to run once per hour. To do this, use the Schedule/Unschedule Options [XUTM SCHEDULE] option on the Taskman Management [XUTM MGR] menu. In the QUEUED TO RUN AT WHAT TIME field, enter a time that is a few minutes into the future (as soon as possible.) In the RESCHEDULING FREQUENCY field, enter "1H" (1 hour.).

```
Select Message Exception Menu Option: MPI/PD Exception Handling

The MPI/PD Exception Purge process last ran May 29, 2007@18:43:35.

The MPI/PD Exception Purge process will now run.
Please come back to this option in five minutes.

Please contact IRM to verify that the MPI/PD EXCEPTION PURGE
[RG EXCEPTION PURGE] option is scheduled to run via TaskMan
with a frequency of once an hour.
```

Figure 3-2: MPI/PD Exception Purge process

The purge process eliminates duplicate exceptions for the same patient/exception type, keeping only the most recent occurrence.

The MPI/PD EXCEPTION PURGE [RG EXCEPTION PURGE] option should be scheduled to run once an hour via Task Manager. Contact Information Resource Management (IRM) to verify that this job is scheduled and running.

Using the MPI/PD Exception Handling Option to Process MPI/VistA Exceptions

The MPI/PD Exception Handling option, allows you to process Primary View Reject exceptions.

The option displays a list of exceptions that have not yet been processed, Figure 3-3. You can sort the list by date (default), patient name, or exception type. You can also choose to view only those of a selected exception type. These first three actions merely change the order that the patients are listed on the screen.

Figure 3-3 shows that the user initiated the MPI/PD Exception Purge process. Once this process is done running, you can go back to the Message Exception Menu and choose the MPI/PD Exception Handling option again to view the results of the purge process .

```
Select Message Exception Menu Option: MPI/PD <Enter> Exception Handling

...EXCUSE ME, LET ME PUT YOU ON 'HOLD' FOR A SECOND...

MPI/PD EXCEPTION HANDLING     Jan 13, 2009@00:48:36          Page:    1 of    1
MPI/PD Exception Handling

     Patient                SSN          Dt Rec'd   Exception Type
1    MPIPATIENT,JOSEPH      666554444    3/03/07    Primary View Reject
```

```
2    MPIPATIENT,CATHERINE  666123456    3/03/07    Primary View Reject
3    MPIPATIENT,WILLIAM W. 666998877    3/03/07    Primary View Reject
4    MPIPATIENT,ROBERT     666121212    3/05/07    Primary View Reject
5    MPIPATIENT,MARY       666060606    3/05/07    Primary View Reject
6    MPIPATIENT,DAVID L.   666789789    3/05/07    Primary View Reject
          Enter ?? for more actions
SD  Sort Exceptions by Date             VT  View Selected Exception Type
SN  Sort by Patient Name                SE  Select Exception
ST  Sort by Exception Type
Select Action:Quit// ??
The following actions are also available:
+    Next Screen          FS   First Screen         SL   Search List
-    Previous Screen      LS   Last Screen          ADPL Auto Display(On/Off)
UP   Up a Line            GO   Go to Page           QU   Quit
DN   Down a Line          RD   Re Display Screen
>    Shift View to Right  PS   Print Screen
<    Shift View to Left   PL   Print List
```

Figure 3-3: MPI/PD Exception Handling option

The MPI/PD Exception Handling option offers several actions to sort by. You can choose to see only selected exception types, view more detailed information on a particular exception, and perform the actions necessary to process and resolve that exception. These actions are listed below and are documented with screen captures on the following pages:

- SD• Sort Exceptions by Date
- SN• Sort by Patient Name
- ST• Sort by Exception Type
- VT• View Selected Exception Type
- SE• Select Exception

SD• Sort Exceptions by Date

This action allows you to sort exceptions by the date they were received, Figure 3-4.

```
Select Action:Quit// SD <Enter> Sort Exceptions by Date

SD Sort Exceptions by Date
MPI/PD EXCEPTION HANDLING     Jan 13, 2009@00:48:36          Page:    1 of    1
MPI/PD Exception Handling

     Patient                SSN          Dt Rec'd   Exception Type
1    MPIPATIENT,ROBERT      666121212    3/05/07    Primary View Reject
2    MPIPATIENT,MARY        666060606    3/05/07    Primary View Reject
3    MPIPATIENT,DAVID L.    666789789    3/05/07    Primary View Reject
4    MPIPATIENT,JOSEPH      666554444    3/03/07    Primary View Reject
5    MPIPATIENT,CATHERINE   666123456    3/03/07    Primary View Reject
6    MPIPATIENT,WILLIAM W.  666998877    3/03/07    Primary View Reject
          Enter ?? for more actions
SD  Sort Exceptions by Date             VT  View Selected Exception Type
SN  Sort by Patient Name                SE  Select Exception
ST  Sort by Exception Type
Select Action:Quit// <Enter>
```

Figure 3-4: View exceptions sorted by date

SN• Sort by Patient Name

This action allows you to sort exceptions by patient name, Figure 3-5.

```
Select Action:Quit// SN <Enter> Sort by Patient Name

SN  Sort by Patient Name
MPI/PD EXCEPTION HANDLING     Jan 13, 2009@00:48:36          Page:    1 of    1
MPI/PD Exception Handling

     Patient                SSN          Dt Rec'd   Exception Type
1    MPIPATIENT,CATHERINE   666123456    3/03/07    Primary View Reject
2    MPIPATIENT,DAVID L.    666789789    3/05/07    Primary View Reject
3    MPIPATIENT,JOSEPH      666554444    3/03/07    Primary View Reject
4    MPIPATIENT,MARY        666060606    3/05/07    Primary View Reject
5    MPIPATIENT,ROBERT      666121212    3/05/07    Primary View Reject
6    MPIPATIENT,WILLIAM W.  666998877    3/03/07    Primary View Reject
          Enter ?? for more actions
SD  Sort Exceptions by Date             VT  View Selected Exception Type
SN  Sort by Patient Name                SE  Select Exception
ST  Sort by Exception Type
Select Action:Quit// <Enter>
```

Figure 3-5: View exceptions sorted by patient name

VT• View Selected Exception Type

The View Selected Exception Type action allows you to display all current exceptions by a single exception type, Figure 3-6.

```
Select Action:Quit// VT <Enter> View Selected Exception Type
Enter an exception type to view: ??

     Select one of the following:
          234       Primary View Reject

Enter an exception type to view: 234

MPI/PD EXCEPTION HANDLING     Jan 13, 2009@00:48:36          Page:    1 of    1
MPI/PD Exception Handling

     Patient                SSN         Dt Rec'd    Exception Type
1    MPIPATIENT,JOSEPH      666554444    3/03/07    Primary View Reject
2    MPIPATIENT,CATHERINE   666123456    3/03/07    Primary View Reject
3    MPIPATIENT,WILLIAM W.  666998877    3/03/07    Primary View Reject
4    MPIPATIENT,ROBERT      666121212    3/05/07    Primary View Reject
5    MPIPATIENT,MARY        666060606    3/05/07    Primary View Reject
6    MPIPATIENT,DAVID L.    666789789    3/05/07    Primary View Reject
+         Enter ?? for more actions
SD  Sort Exceptions by Date             VT  View Selected Exception Type
SN  Sort by Patient Name                SE  Select Exception
ST  Sort by Exception Type
Select Action:Quit// <Enter>
```

Figure 3-6: View selected exception type

SE• Select Exception action

This action allows you to select a specific exception, providing more detailed information. The following are a list of further actions within the Select Exception action. They allow you to easily check patient data and resolve exceptions without leaving the MPI/PD Exception Handling option.

- **Patient Audit•** Use this action to audit the changes made in the MPI/PD Exception Handling option. The report prints the patient name and DFN, date/time the field was edited, the user who made the change, the field edited, the old value, and the new value. The right margin for this report is 80.
- **Patient Inquiry•** Use this action to do a Patient Inquiry directly from the MPI/PD Exception Handling option. Patient Inquiry is the standard Patient Inquiry option.
- **HINQ Inquiry•** Use this action to do a HINQ Inquiry for a selected patient directly from the MPI/PD Exception Handling option. HINQ Inquiry sends a HINQ Request to the HINQ SUSPENSE file (#39.5). Sites using HINQ Inquiry within the MPI/PD Exception Handling [RG EXCEPTION HANDLING] options, should be sure that the USE HINQ INQUIRY? (#17) field in the MAS PARAMETERS file (#43) is set to YES.

- **MPI Display Only Query•** Use this action to display the information that is on the MPI for a patient directly from the MPI/PD Exception Handling option.
- **Edit Patient Data•** Use this action to edit patient data directly from the MPI/PD Exception Handling option. This action allows you to edit selected fields on the patient.
- **View PV Rej Detail•** Selecting the PVR action automatically sends a Remote Query to the MPI, automatically initiating the following process:
  - Sends a request to the Master Patient Index for information on the rejected edit to the Primary View for the selected patient at your facility, beginning with the date of the Primary View Reject exception.
  - Reports the various statuses of the query in the interim.
  - Displays a screen showing the Primary View Reject Details Report for that patient, which is also available to the HC IdM staff.
- **Update Status to Processed•** Use this action to update the exception status to Processed directly from the MPI/PD Exception Handling option. This action is only used for resolving the three Death entry exceptions.
- **MPI/PD Data Inquiry•** Use this action to display Master Patient Index/Patient Demographics (MPI/PD) information for the selected patient directly from the MPI/PD Exception Handling option. This action allows you to query any facility at which a selected patient has been seen, check the query, and display the remote patient data that is returned from that site. It is documented in detail elsewhere in this manual, in the section titled "MPI/PD Data Inquiry Action."
- **Edit Note•** Use this action to add/edit notes to the exception directly from the MPI/PD Exception Handling option.
- **MPI Primary View•** Use this action to remotely view Primary View patient identity fields on the Master Patient Index (MPI). The functionality is the same for the Primary View Display from MPI [RG PRIMARY VIEW FROM MPI].

NOTE: As of MPI/PD Patch MPIF*1*52, all screens and actions associated with the MPI/PD Exception Handler functionality for resolving Potential Match Exceptions have been removed from MPI/PD VistA. This functionality is now supported in the IMDQ Toolkit.

NOTE: Some of these actions, listed previously, can also be found as stand-alone MPI/PD VistA options, see Table below. The MPI/PD Exception Handling option offers these same options in the form of actions. This is done to make this functionality available and convenient for users to continue working within the MPI/PD Exception Handling option to resolve exceptions.

Action	Counterpart VistA MPI/PD Option
Patient Audit	Single Patient Audit File Print [RGMT AUDIT SINGLE] on the Patient Audit Log Reports [RG TRAN/AUD AUD REP] menu.
Display Only Qry	Display Only Query [MPIF DISPLAY ONLY QUERY TO MPI] on the Message Exception Menu [RG EXCEPTION MENU].
MPI/PD Data	This action allows users to get MPI data and remote data. It

Inquiry	comprises the following stand-alone MPI/PD option and menu option: • MPI data is also available on the Patient MPI/PD Data Inquiry [RG EXCEPTION TF INQUIRY] option. • Remote data can be derived from the three options (Send Remote Patient Data Query, Check Remote Patient Data Query, and Display Remote Patient Data Query) located on the Remote Patient Data Query Menu [RG REMOTE PDAT MENU].
Primary View Display from MPI	The Primary View Display option is located on the Message Exception Menu [RG EXCEPTION MENU]. It is used to remotely view Primary View patient identity fields on the Master Patient Index (MPI). The same functionality as was described in the previous documentation for the MPI/PD Exception Handling action MPI Primary View, applies to this option. They both behave the same. However, the one difference between them is that the Primary View Display from MPI option offers VA facilities the ability to send remote queries to the MPI to view patient identity data regardless if there is an exception logged for the patient.

Table 3-1: MPI/PD Exception Handling actions w/MPI/PD VistA stand-alone options

The actions in the MPI/PD Exception Handling option are functionally identical to the counterpart stand-alone MPI/PD VistA options. For more information on MPI/PD VistA stand-alone options, see the "MPI/PD VistA User Manual" located at the following Web site:

http://www.va.gov/vdl/Infrastructure.asp?appID=16 .

```
MPI/PD EXCEPTION HANDLING     Jan 13, 2009@00:48:36          Page:    1 of    1
MPI/PD Exception Handling

     Patient                SSN          Dt Rec'd   Exception Type
1    MPIPATIENT,JOSEPH      666554444    3/03/07    Primary View Reject
2    MPIPATIENT,CATHERINE   666123456    3/03/07    Primary View Reject
3    MPIPATIENT,WILLIAM W.  666998877    3/03/07    Primary View Reject
4    MPIPATIENT,ROBERT      666121212    3/05/07    Primary View Reject
5    MPIPATIENT,MARY        666060606    3/05/07    Primary View Reject
6    MPIPATIENT,DAVID L.    666789789    3/05/07    Primary View Reject
          Enter ?? for more actions
SD  Sort Exceptions by Date             VT  View Selected Exception Type
SN  Sort by Patient Name                SE  Select Exception
ST  Sort by Exception Type
Select Action:Quit// SE <Enter> Select Exception
Select :  (1-6): 3
HI  Hinq Inquiry          ED  Edit Patient Data     NT  Edit Note

--------------------------------------------------------------------------------

                          PVR View PV Rej Detail    PR  MPI Primary View

MPI/PD EXCEPTION ACTIONS      Jan 13, 2009@00:52:45          Page:    1 of    1
MPI/PD EXCEPTION HANDLING ACTIONS.

    Exception Data
     Name:   MPIPATIENT,WILLIAM W.
      SSN:   666998877
      DOB:   JAN 1,1923
      DFN:   100000980
      ICN:   1008521579V534601
     Date of Death:
     Exception Type:     Primary View Reject
     Exception Date:     Dec 20, 2006
     Exception Status:   NOT PROCESSED
     Exception Text:     Rejected some fields your site updated for HL
                         msg# 2000318
     Exception Notes:

          Enter ?? for more actions
AUD Patient Audit         DO  MPI Display Only Qry  UPD Update to Processed
PI  Patient Inquiry       ED  Edit Patient Data     DI  MPI/PD Data Inquiry
HI  Hinq Inquiry          PVR View PV Rej Detail    NT  Edit Note
                                                    PR  MPI Primary View

Select Action:Quit//
```

Figure 3-7: MPI/PD Exception Handling option Select Exception action

NOTE: As of Patch MPIF*1*52, all screens and actions associated with the MPI/PD Exception Handler functionality for resolving Potential Match Exceptions have been removed from MPI/PD VistA. This functionality is now supported in the IMDQ Toolkit.

Example Scenario—Processing Exceptions for Shared Patients in VistA

If the patient entry being processed is shared with another VistA system, a match cannot be made. If site personnel attempt to try, a message is displayed, Figure 3-8, and an exception message is sent to the

Healthcare Identity Management (HC IdM) team for their review and assistance in resolving the potential duplicate on the MPI. Once the exception is sent to the HC IdM team, the exception status at the site automatically changes to PROCESSED. Site personnel need take no further action, unless the HC IdM team contacts them for assistance.

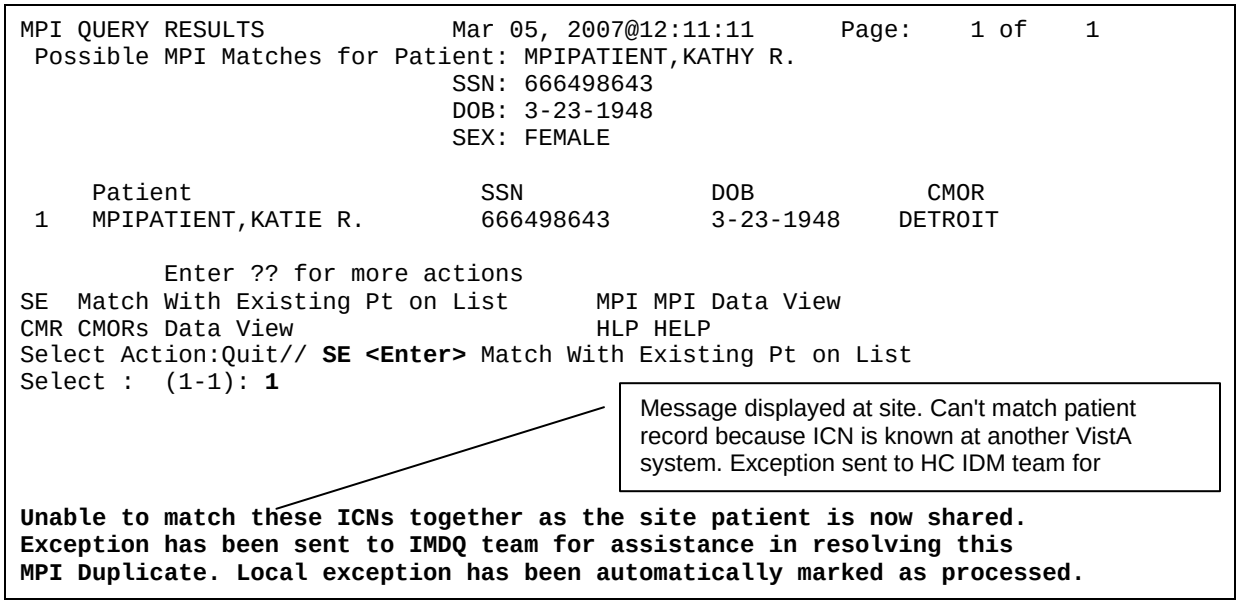

Figure 3-8: Can't Match to ICN when Patient with Exception is Shared

MPI/PD Data Inquiry Action

This MPI/PD exception handling action is located in the MPI/PD Exception Handling option. It is helpful in resolving exceptions because it allows you to query any facility at which a selected patient has been seen, check the query, and display the remote patient data that is returned from that site. The remote data fields retrieved include the Integration Control Number (ICN), the Coordinating Master of Record (CMOR) site, MPI/PD Activity Score, Treating Facility list, CMOR History and CMOR Change Request History.

```
MPI/PD EXCEPTION ACTIONS      Mar 05, 2007@12:11:11          Page:    1 of    1
MPI/PD EXCEPTION HANDLING ACTIONS.

    Exception Data
     Name:   MPIPATIENT,CLIFFORD
      SSN:   666337777
      DOB:
      DFN:   700000
      ICN:   1099999999
     Date of Death:      FEB 3,1999
     Exception Type:     Primary View Reject
     Exception Date:     Oct 16, 2001
     Exception Status:   PROCESSED
     Exception Text:
     Exception Notes:

           Enter ?? for more actions
AUD Patient Audit         DO  MPI Display Only Qry  UPD Update to Processed
PI  Patient Inquiry       ED  Edit Patient Data     DI  MPI/PD Data Inquiry
HI  Hinq Inquiry          PVR View PV Rej Detail    NT  Edit Note
                                                    PR  MPI Primary View

Select Action:Quit// DI <Enter> MPI/PD Data Inquiry
```

Figure 3-9: MPI/PD Data Inquiry action

SND—Send Remote Query

```
MPI/PD PATIENT DATA ACTIONS   Mar 05, 2007@12:11:11          Page:  1 of  1
MPI/PD PATIENT DATA

 Patient Data
 MPI/PD Data for: MPIPATIENT,CLIFFORD  (DFN #700000)
 Printed Mar 05, 2007@12:11:11 at ALBANY
 ================================================================================
 SSN    : 666337777                              ICN : 1099999999
 Sex    : MALE                                   CMOR: BATTLE CREEK
 Claim #: 000337777                              CMOR Activity Score   : None
 Date of Birth:                                  Subscription Control #: None
 Address: 123 COLLEGE TOWN DR
          SACRAMENTO, CALIFORNIA 95826
 Treating Facilities:   Station:    DT Last Treated     Event Reason
 --------------------   --------    ---------------     ------------
 BATTLE CREEK            515        Jun 10, 2006@13:20  PATIENT DISCHARGE
 +         Enter ?? for more actions
 SND  Send Remote Query                  DSP  Display Query Data
 CHK  Check Remote Query
 Select Action:Next Screen// SND <Enter> Send Remote Query
 -> For ICN 1099999999
 Query last sent for this ICN on Nov 28, 2001
 Select one or more of the following:
 1.  (502) ALEXANDRIA
 2.  (504) AMARILLO HCS
 3.  (515) BATTLE CREEK
 4.  (520) BILOXI
 5.  (521) BIRMINGHAM
 6.  (526) BRONX
 7.  (619) CENTRAL ALABAMA HCS
 8.  (674) CENTRAL TEXAS HCS
 9.  (537) CHICAGO HCS
 10. (553) DETROIT
 11. (677) EASTERN KANSAS HCS
 12. (437) FARGO VAMROC
 13. (564) FAYETTEVILLE AR
 14. (578) HINES
 15. (ALL)
 Select site(s) 1-14 or 15 for all: 3,6,9-14
 Remote patient data queries will be sent to:
 1.  (515) BATTLE CREEK
 2.  (526) BRONX
 3.  (537) CHICAGO HCS
 4.  (553) DETROIT
 5.  (677) EASTERN KANSAS HCS
 6.  (437) FARGO VAMROC
 7.  (564) FAYETTEVILLE AR
 8.  (578) HINES
 Do you want to continue? Yes// <Enter>  YES
   Sending Remote Query to: 437  FARGO VAMROC
   Sending Remote Query to: 515  BATTLE CREEK
   Sending Remote Query to: 526  BRONX
   Sending Remote Query to: 537  CHICAGO HCS
   Sending Remote Query to: 553  DETROIT
   Sending Remote Query to: 564  FAYETTEVILLE AR
   Sending Remote Query to: 578  HINES
   Sending Remote Query to: 677  EASTERN KANSAS HCS
```

Figure 3-10: Send Remote Query action

CHK—Check Remote Query

```
MPI/PD PATIENT DATA ACTIONS   Mar 05, 2007@12:11:11          Page:  1 of 1
MPI/PD PATIENT DATA

 Patient Data
-------------------------------------------------------------------------------

 MPI/PD Data for: MPIPATIENT,CLIFFORD  (DFN #700000)
 Printed Mar 05, 2007@12:11:11 at ALBANY
 ===============================================================================
 SSN    : 666337777                                ICN : 1099999999
 Sex    : MALE                                     CMOR: BATTLE CREEK
 Claim #: 000337777                                CMOR Activity Score   : None
 Date of Birth:                                    Subscription Control #: None
 Address: 123 COLLEGE TOWN DR
               SACRAMENTO, CALIFORNIA 95826

 Treating Facilities:   Station:    DT Last Treated     Event Reason
 -------------------    --------    ---------------     ------------
 BATTLE CREEK            515        Jun 10, 2006@13:20  PATIENT DISCHARGE

 +         Enter ?? for more actions
 SND  Send Remote Query                  DSP  Display Query Data
 CHK  Check Remote Query
 Select Action:Next Screen// CHK <Enter> Check Remote Query

 -> For ICN 1099999999

 Select one or more of the following:
 1.  (515) BATTLE CREEK
 2.  (526) BRONX
 3.  (537) CHICAGO HCS
 4.  (553) DETROIT
 5.  (677) EASTERN KANSAS HCS
 6.  (437) FARGO VAMROC
 7.  (564) FAYETTEVILLE AR
 8.  (578) HINES
 9.  (ALL)
 Select site(s) 1-8 or 9 for all: 9
     BATTLE CREEK  status: (Response Received)
     BRONX  status: (Response Received)
     CHICAGO HCS  status: (Response Received)
     DETROIT  status: (Response Received)
     EASTERN KANSAS HCS  status: (Response Received)
     FARGO VAMROC  status: (Response Received)
     FAYETTEVILLE AR  status: (Response Received)
     HINES  status: (Response Received)
```

Figure 3-11: Check Remote Query action

DSP—Display Query Data

```
MPI/PD PATIENT DATA ACTIONS   Mar 05, 2007@12:11:11          Page: 1 of    1
MPI/PD PATIENT DATA

 Patient Data

 MPI/PD Data for: MPIPATIENT,CLIFFORD  (DFN #700000)
 Printed Mar 05, 2007@12:11:11 at ALBANY
 ================================================================================
 SSN    : 666337777                              ICN : 1099999999
 Sex    : MALE                                   CMOR: BATTLE CREEK
 Claim #: 000337777                              CMOR Activity Score   : None
 Date of Birth:                                  Subscription Control #: None
 Address: 123 COLLEGE TOWN DR
               SACRAMENTO, CALIFORNIA 95826

 Treating Facilities:    Station:  DT Last Treated      Event Reason
 --------------------    --------  --------------       ------------
 BATTLE CREEK            515       Jun 10, 2006@13:20   PATIENT DISCHARGE

+         Enter ?? for more actions
SND  Send Remote Query                  DSP  Display Query Data
CHK  Check Remote Query
Select Action:Next Screen// DSP <Enter> Display Query Data


Display data returned from remote patient data queries.

-> For ICN 1001169316

Select one or more of the following:
1.  (515) BATTLE CREEK
2.  (526) BRONX
3.  (537) CHICAGO HCS
4.  (553) DETROIT
5.  (677) EASTERN KANSAS HCS
6.  (437) FARGO VAMROC
7.  (564) FAYETTEVILLE AR
8.  (578) HINES
9.  (ALL)
Select site(s) 1-8 or 9 for all: 1

--------------------------------------------------------------------------------
MPI/PD REMOTE DATA QUERY      Mar 05, 2007@12:11:11          Page:1 of 3
MPI/PD REMOTE PATIENT DATA

 REMOTE PATIENT DATA
 -> For ICN 1099999999
     BATTLE CREEK  status: (Response Received)

Printed Dec 11, 2001@07:39 at BATTLE CREEK
Enter RETURN to continue or '^' to exit: <Enter>

================================================================================
SSN    : 666337777                              ICN : 1099999999
Sex    : MALE                                   CMOR: BATTLE CREEK
Claim #: 000337777                              CMOR Activity Score   : None
Date of Birth:                                  Subscription Control #: None
Address: 123 COLLEGE TOWN DR
               SACRAMENTO, CALIFORNIA 95826
```

```
Treating Facilities:    Station:    DT Last Treated       Event Reason
--------------------    --------    ---------------       ------------
BATTLE CREEK             515        Jun 10, 2006@13:20    PATIENT DISCHARGE
BRONX                    526        Aug 13, 2005@9:45     PATIENT DISCHARGE
CHICAGO HCS              537        Sept 21, 2006@13:00   PATIENT DISCHARGE

Select Action:Next Screen// <Enter>
```

Figure 3-12: Display Query Data action

Primary View Reject Exception and View PV Rej Detail (PVR) Action on the MPI Exception Handling Option

When patient identity fields are edited at VA facilities and sent to the MPI, those edits *must* meet or exceed the existing authority score and pass the Primary View data rules on a field-by-field basis. If an edit fails to pass both of these tests, the edit to that patient identity field is rejected.

The transition from the Coordinating Master of Record (CMOR) "view" to the Primary View introduces the following new exception type and exception action to the MPI/PD Exception Handling option [RG EXCEPTION HANDLING]:

- **Primary View Reject exception type•** Rejected edits to the Primary View on the MPI generate this exception, which is sent back to the site that attempted the edit.
- **View PV Rej Detail (PVR) exception action•** Site personnel can use the View PV Rej Detail (PVR) action to view more details about rejected data from the MPI in Austin, allowing them to see why their edit(s) were rejected.

After review of the Primary View reject, sites can select the UPD action to change the exception status from NOT PROCESSED to PROCESSED. This clears the reject exception off the MPI/PD Exception Handling option.

If a site determines that the rejected data is a valid edit, the only way to get that data updated on the MPI is to contact the Healthcare Identity Management (HC IdM) team and have them make the edit. HC IdM has the ability to overwrite Primary View data.

NOTE: For Healthcare Identity Management (HC IdM) contact information, see the section titled "Contact HC IdM Team if Your Site Determines Rejected Data is Valid" in this documentation.

Upon selection of a reject exception, a remote query is automatically sent to the MPI that will bring back a display of the details allowing sites to see why their edit was rejected.

NOTE: For a list of all possible reject messages displayed in the Primary View Reject exceptions, see the Primary View Data Rules document at the following address:

http://vista.med.va.gov/mpi/HC IdM_Primary_View_Data_Rules.asp

The following screen captures and descriptive text show the series of events that sites will likely take when reviewing and processing Primary View Reject exceptions.

```
Select OPTION NAME: RGMGR <Enter> MPI/PD Master Menu


   CORD   MPI/PD Patient Admin Coordinator Menu ...
   IRM    MPI/PD IRM Menu ...

Select MPI/PD Master Menu Option: COR <Enter> MPI/PD Patient Admin Coordinator Menu

  <<-------------------------------------------------------------------------->>
  << You have Primary View Reject exceptions that need to be reviewed using >>
  << the MPI/PD Exception Handling Option on the Message Exception Menu.    >>
  <<-------------------------------------------------------------------------->>

   LOG    Patient Audit Log Reports ...
   MSG    Message Exception Menu ...
   RPT    Management Reports ...
   POC    Add/Edit Point of Contact

Select MPI/PD Patient Admin Coordinator Menu Option: MSG <Enter> Message Exception
Menu

          MPI/PD Exception Handling
          Patient MPI/PD Data Inquiry
          Remote Patient Data Query Menu ...
          Display Only Query
          Primary View Display from MPI

Select Message Exception Menu Option: MPI/PD Exception Handling
```

Figure 3-13: Select MPI/PD Exception Handling option

Figure 3-13 shows the selection of the MPI/PD Exception Handling option, located on the Message Exception Menu.

Selecting a Primary View Reject Exception for Processing

The VistA user selects a patient with an exception type of Primary View Reject on the first screen of the MPI/PD Exception Handling option using the Select Exception action. Enter the exception's row number at the "Select Action:" prompt, Figure 3-14.

```
MPI/PD EXCEPTION HANDLING Jan 11, 2007@10:22:26         Page:    1 of    4
MPI/PD Exception Handling

     Patient                SSN         Dt Rec'd  Exception Type
1    MPIPATIENT,ANN         666001928   01/10/07  Primary View Reject
2    MPIPATIENT,BILL        666010123P  01/03/07  Primary View Reject
3    MPIPATIENT,CAROL       666022332   01/10/07  Primary View Reject
4    MPIPATIENT,JANE        666272727   01/10/07  Primary View Reject
5    MPIPATIENT,GREG        666230333   12/31/06  Primary View Reject
6    MPIPATIENT,TIM         666002221   01/10/07  Primary View Reject
7    MPIPATIENT,ELLEN       666014040   01/09/07  Primary View Reject
8    MPIPATIENT,SUSAN       666043434   01/09/07  Primary View Reject
9    MPIPATIENT,LUKE        666010122   01/10/07  Primary View Reject
10   MPIPATIENT,PAT         666702020   01/09/07  Primary View Reject
11   MPIPATIENT,MATHEW      666082525   01/10/07  Primary View Reject
12   MPIPATIENT,TREVOR      666101023   01/10/07  Primary View Reject
13   MPIPATIENT,ABRIANNA    666272727   01/10/07  Primary View Reject
14   MPIPATIENT,HADASSAH    666010123P  01/10/07  Primary View Reject

+         Enter ?? for more actions


SD  Sort Exceptions by Date             VT  View Selected Exception Type
SN  Sort by Patient Name                SE  Select Exception
ST  Sort by Exception Type

Select Action:Next Screen// SE <Enter> Select Exception
Select :  (1-14): 9
```

Figure 3-14: Select exception on the Exception Handling option

To begin processing Primary View Reject exceptions, select the new action View PV Rej Detail (PVR) at the "Select Action:" prompt. Figure 3-15 shows an example of a Primary View Reject exception generated on Jan 10, 2007, with a status of NOT PROCESSED. An edit to one of the patient identity fields caused the error because the authority score was not high enough or it failed a data rule.

```
MPI/PD EXCEPTION ACTIONS        Jan 11, 2007@10:24:20          Page:    1 of    1
MPI/PD EXCEPTION HANDLING ACTIONS.

    Exception Data
     Name:   MPIPATIENT,LUKE
      SSN:   666010122
      DOB:   JAN 1,1922
      DFN:   100001000
      ICN:   1000001627V167209
     Date of Death:
     Exception Type:     Primary View Reject
     Exception Date:     Jan 10, 2007
     Exception Status:   NOT PROCESSED
     Exception Text:     Edits to one or more fields have been rejected
                         for the Primary View on the MPI.
     Exception Notes:

+         Enter ?? for more actions
AUD Patient Audit         DO  MPI Display Only Qry  UPD Update to Processed
PI  Patient Inquiry       ED  Edit Patient Data     DI  MPI/PD Data Inquiry
HI  Hinq Inquiry          PVR View PV Rej Detail    NT  Edit Note
                                                    PR  MPI Primary View

Select Action:Quit// PVR <Enter> View PV Rej Detail
```

Figure 3-15: Select new View PV Rej Detail (PVR) action on the Exception Handling option

Selecting the View PV Rej Detail Action Automatically Sends a Remote Query to the MPI

Selecting the PVR action automatically initiates the following process:

- Sends a request to the Master Patient Index for information on the rejected edit to the Primary View for the selected patient at your facility, beginning with the date of the Primary View Reject exception.
- Reports the various statuses of the query in the interim.
- Displays a screen showing the Primary View Reject Details Report for that patient.

This process can happen in any of the next four scenarios:

1. Figure 3-16 shows the output if a query has never been sent to the MPI for the Primary View Reject information on this patient (i.e., this is the first time a request is being sent to the MPI).

```
Select Action:Quit// PVR <Enter> View PV Rej Detail
   Sending a Remote Query to the Master Patient Index.
   This will take some time; please be patient.
```

Figure 3-16: Sending a Remote Query for this ICN/Exception Date to the Master Patient Index

If you have never sent a query to the MPI for this patient before, when the query returns from the MPI, you will get your data back displayed in a new screen in the form of a Primary View Reject Report, Figure 3-17.

```
REMOTE PRIMARY VIEW REJECT    Jan 11, 2007@10:24:20          Page:    1 of    1
MPI PRIMARY VIEW REJECT DISPLAY

    MPI Primary View Reject Display
 ICN:           1000001627V167209   Name: MPIPATIENT,LUKE
 DFN:           100001000           SSN:  666010122

 Type of Reject:       Authority Score
 Requestor:            Albany
 Date/Time of Update:  Jan 10, 2007@10:14:59
 Date/Time of Reject:  Jan 10, 2007@10:15:08

 Field:  Place of Birth City            Existing Primary View Authority Score
 Primary View Value:   JACKSONVILLE                      125
 Local Edit Value:     JONESVILLE                          0



 If you believe this edit is valid, contact the IMDQ Team for assistance via
 the G.MPIF EXCEPTIONS mailgroup (VistA) or the VHA OI IA MPI DQ TEAM mailgroup
 (Outlook). Transmission of patient sensitive data requires PKI encryption.

Select Action:Next Screen// ^
```

Figure 3-17: MPI Primary View Reject Report sent back from the query to the MPI

The Healthcare Identity Management (HC IdM) team views this same information in a form called the Primary View Reject Report

2. Figure 3-18 shows the output if a previous query had already been sent on a prior day to the MPI for this patient with the same exception date.

```
Select Action:Quit// PVR <Enter> View PV Rej Detail
   A query was last sent for this ICN/Exception Date on Jan 11, 2007@11:19:08
   Previous Query data may be obsolete.
   Sending a Remote Query to the Master Patient Index.
   This will take some time; please be patient.
   Query data has returned from the MPI and is available for review.
```

Figure 3-18: Resending a Remote Query for this ICN/Exception Date to the Master Patient Index

NOTE: A new query is sent if the reject exception you are reviewing was not generated on the current date (today's date). This is because there can always be the possibility previous query data may be obsolete.

3. Figure 3-19 shows the output if the previous query had been sent to the MPI for this patient with the same exception date on the same day (today's date). In other words, you've reviewed the exception more than once in one day.

```
Select Action:Quit// PVR <Enter> View PV Rej Detail
   A query was last sent for this ICN/Exception Date on Jan 11, 2007@11:25:18.
   Do you wish to review that existing query data now? YES// <Enter>
```

Figure 3-19: Query not sent again for this ICN/Exception Date because you are viewing it on the same day

Pressing the **<Enter>** key or entering "Yes" at the "Do you wish to review that existing query data now? YES// " prompt in Figure 3-19 displays the existing Primary View Reject report.

4. As a continuation from scenario #3, if for any reason you want to send a new query, simply reject the default answer and respond with "No." Figure 3-20 shows what you will see:

```
Select Action:Quit// PVR <Enter> View PV Rej Detail
   A query was last sent for this ICN/Exception Date on Jan 11, 2007@00:09:14
   Do you wish to review that existing query data now? YES// n <Enter> NO
   Sending a Remote Query to the Master Patient Index.
   This will take some time; please be patient.
   Query data has returned from the MPI and is available for review.
```

Figure 3-20: Requesting a new remote query to the MPI

Queries to MPI Not Returned After 30 Seconds Displays "Please try again later"

If after you've selected the PVR action the system is busy, it might take some time for the query request to return the data from the MPI. The software will try for up to 30 seconds to get a response. If data is not returned within that timeframe, Figure 3-21 shows the message you will see. The query can fail due to network or connectivity issues, just check back at a later time to send another query.

```
Select Action:Quit// PVR <Enter> View PV Rej Detail
      Your query request has NOT returned data from the MPI after trying for
      30 seconds. This could be due to network issues. Please try again later.
```

Figure 3-21: Queries to MPI not returned after 30 Seconds displays "Please try again later"

Contact HC IdM Team if Your Site Determines Rejected Data is Valid

It is recommended that sites review their rejected data to determine why the reject occurred. This is intended to help determine if local education needs to take place to prevent future data rejects.

VA facilities need to contact the Healthcare Identity Management (HC IdM) team in circumstances where valid edits are rejected on the MPI, because they did not pass the initial validation tests. HC IdM has the ability to overwrite Primary View data on the MPI. Once HC IdM has overwritten a piece of data, the authoritative score for that data jumps to 1000. This is the maximum score that a field can get. Any future edits to this field will never surpass that score and will stop this edit from being rejected again. This functionality is intended to stabilize valid and verified field values, which are agreed upon between HC IdM and the site. If your site determines the edit in question is valid, contact the HC IdM team for assistance via the following e-mail groups:

- MPIF EXCEPTIONS mail group (local VistA)
- CIRN EXCEPTION MGT mail group (FORUM)
- VHA OI IA MPI DQ Team distribution group on Outlook

CAUTION: Transmission of patient sensitive data requires Public Key Infrastructure (PKI) encryption.

Marking Reject Exceptions Complete and Clearing them from the Exception Handler

When this information has been reviewed and is no longer needed, return to the MPI/PD EXCEPTION ACTIONS screen. Mark the exception as finished by using the "UPD Update to Processed" action.

```
MPI/PD EXCEPTION ACTIONS    Jan 11, 2007@10:24:20          Page:    1 of    1
MPI/PD EXCEPTION HANDLING ACTIONS.

    Exception Data
     Name:   MPIPATIENT,LUKE
      SSN:   666010122
      DOB:   JAN 1,1922
      DFN:   100001000
      ICN:   1000001627V167209
     Date of Death:
     Exception Type:     Primary View Reject
     Exception Date:     Jan 10, 2007
     Exception Status:   NOT PROCESSED
     Exception Text:     Edits to one or more fields have been rejected
                         for the Primary View on the MPI.
     Exception Notes:


              Enter ?? for more actions
                          PVR View PV Rej Detail
Select Action:Quit// upd <Enter> Update to Processed
This option updates the exception status to PROCESSED.
After it is processed it will not be listed in the summary.
Are you sure you want to change the status? YES// YES <Enter>

This option updates the exception status to PROCESSED.
After it is processed it will not be listed in the summary.
Are you sure you want to change the status? YES// <Enter>
```

Figure 3-22: Select Update to Processed (UPD) action to remove Primary View Reject exception

If your site agrees with the data rejection, the exception is no longer needed. Return to the MPI/PD EXCEPTION ACTIONS screen, Figure 3-22, and mark the exception status from NOT PROCESSED to PROCESSED, Figure 3-23, by using the "UPD Update to Processed" action. This will remove the exception off the Exception Handling option.

```
MPI/PD EXCEPTION ACTIONS    Jan 11, 2007@10:24:20          Page:    1 of    1
MPI/PD EXCEPTION HANDLING ACTIONS.

    Exception Data
     Name:   MPIPATIENT,LUKE
      SSN:   666010122
      DOB:   JAN 1,1922
      DFN:   100001000
      ICN:   1000001627V167209
     Date of Death:
     Exception Type:     Primary View Reject
     Exception Date:     Dec 04, 2006
     Exception Status:   PROCESSED
     Exception Text:     Edits to one or more fields have been rejected
                         for the Primary View on the MPI.
     Exception Notes:


          Enter ?? for more actions

AUD Patient Audit         DO  MPI Display Only Qry  UPD Update to Processed
PI  Patient Inquiry       ED  Edit Patient Data     DI  MPI/PD Data Inquiry
HI  Hinq Inquiry          PVR View PV Rej Detail    NT  Edit Note
                                                    PR  MPI Primary View

Select Action:Quit//
```

Figure 3-23: Primary View Reject Exception Status updated to PROCESSED—exception removed

Changing the exception status to PROCESSED, Figure D-13 removes the exception from the Exception Hander.

NOTE: The Remote Primary View Reject action shows one reject per screen.

NOTE: The HC IdM Team has access to the same information in the Primary View Reject Report, as is shown in the Primary View Reject exception found on the MPI/PD Exception Handling option at the VA facilities. This means that HC IdM can access this same information when requested.

Primary View Authority Score Criteria and Data Rules for Evaluating Data Quality

When patient identity fields are edited at VA facilities and sent to the MPI, they *must* meet or exceed the existing authority score and pass the Primary View business rules on a field-by-field basis. The following

are links to two spreadsheets developed by the Healthcare Identity Management (HC IdM) staff for the criteria for computing the Primary View authority scores and the Primary View data rules:

- Scoring of Primary View data is based on criteria captured from patient encounters with VA facilities. These are authority score values, the criteria of which are weighted in such a way that the site's edits to the MPI are measured and calculated on a field-by-field basis. The resulting value needs to meet or exceed the current authority score to have enough weight to change the Primary View. If not, that edit will be rejected and a Primary View Reject exception will be sent to the sending site. If the site making the edit has activity with the patient, validated based on authority score calculations and criterion matches proving that the patient is being seen at that site, their score will be high enough to make an edit to that identity trait. These events indicate where the patient is actively seen. This is considered the authoritative site.
- The Primary View Data Rules regulate entering data in specific formats for which users *cannot* violate. The goal of which is to improve the quality of data. These conditions that are different for each identity trait have to be met before a patient identity field can be edited.

NOTE: For more information, see the Primary View Data Rules document at the following address:

http://vista.med.va.gov/mpi/HC IdM_Primary_View_Data_Rules.asp

Example Scenario: Site Corrects First Name Which Generates Reject Exception

"George" is the name of a patient who has been actively seen at a VA facility for a long time. At the time of initial data entry, hospital personnel at George's VA facility transposed two characters in his first name (i.e., "Goerge"). George has had a lot of activity at this site (e.g., he was admitted as a patient at one time, he is currently assigned to a Primary Care Team, he has active prescriptions, and has a future appointment date for care, etc.); hence, he has a high authority score for the FIRST NAME patient identity field.

Later, George made a visit to a different VA facility for care. Hospital personnel at this facility notice the error in his first name and attempt to fix it; but in doing so, the VA facility generated a Primary View Reject exception because the MPI rejected the edit.

Why did this happen? It is because this is his first visit to this other facility (e.g., he has never been admitted as a patient; he is not currently assigned to a Primary Care Team at this new facility; he has no active prescriptions [his prescriptions have not been transferred over from his other VA facility yet], etc.). The authority score that George established for his first visit to this second site did not meet or exceed the current authority score for his FIRST NAME patient identity field. Hence, the edit did not pass the validation tests, which resulted in a reject exception.

VA facilities need to contact the Healthcare Identity Management (HC IdM) team in circumstances where legitimate edits are rejected on the MPI because they did not pass the initial validation tests. HC IdM has the ability to overwrite data on the MPI. Once HC IdM has edited a patient identity field, the authoritative score for that piece of data jumps to 1000; that is the maximum score that a field can get and the site activity score can never reach that level. Hence, the value of the patient identity field can no longer be edited for the patient by any site.

Update to Processed Action Removes Exception Message from List

When the exception has been processed (i.e., meaning that you have verified data, corrected where necessary, and if necessary, you have contacted the Coordinating Master of Record (CMOR) site), use the Update the Status to Processed action to remove it from the exception list. An update status of PROCESSED is used if the patient has already been assigned a nationally ICN.

VA Facilities Can View the Primary View Data on the MPI

VA facilities have the ability to remotely view Primary View patient identity fields on the Master Patient Index (MPI). The report generated by this option displays the current activity scores for individual patient identity fields (i.e., Primary View of the MPI) and the primary view data fields. VA facilities send a remote query to the MPI to view the MPI primary view information. The same capability to examine this data is available in two locations:

- An action named MPI Primary View (PR), which is located on the MPI/PD Exception Handling [RG EXCEPTION HANDLING] option.
- An option named Primary View Display from MPI [RG PRIMARY VIEW FROM MPI], located on the Message Exception Menu [RG EXCEPTION MENU].

There is a difference between the MPI Primary View action on the MPI/PD Exception Handler and the Primary View Display from MPI option. The Primary View Display from MPI option offers VA facilities the ability to send remote queries to the MPI to view patient identity data regardless if there is an exception logged for the patient.

MPI/PD Exception Handling Action: MPI Primary View

The following are instructions for using the MPI Primary View action on the MPI/PD Exception Handling option to remotely view Primary View patient identity fields on the Master Patient Index (MPI). The functionality is the same for the Primary View Display from MPI [RG PRIMARY VIEW FROM MPI].

On the MPI/PD Exception Handling option, choose a patient on the first screen(s) of the Exception Handler using the Select Exception action. Next, select the new action MPI Primary View (PR), Figure 3-25**.**

```
AUD Patient Audit         DO  MPI Display Only Qry  UPD Update to Processed
PI  Patient Inquiry       ED  Edit Patient Data     DI  MPI/PD Data Inquiry
HI  Hinq Inquiry          PVR View PV Rej Detail    NT  Edit Note
                                                    PR  MPI Primary View

Select Action:Quit// PR (Enter) MPI Primary View
```

Figure 3-24: MPI/PD Exception Handling Action• MPI Primary View

Based on the query status of the patient, there are three possible paths that this functionality can take:

1. If a query has *never* been sent to the MPI for this patient, a remote query is sent to the MPI Patient Data Inquiry option for the first time, Figure 3-25.

```
Sending a Remote Query to the Master Patient Index.
This will take some time; please be patient.
```

Figure 3-25: Query has never been sent to the MPI PDAT

2. If a *previous* query was sent to the MPI for this patient, the following message is shown indicating a query was sent to the MPI and on what date, Figure 3-26. Selecting *the default answer of YES* displays the MPI Patient Data Inquiry (PDAT) information on the next page/screen.

```
A query was last sent for this ICN on <date>.
Do you wish to review that existing query data now? YES// <Enter>
```

Figure 3-26: Query has already been sent to the MPI PDAT• Display existing query data

3. If a *previous* query was sent to the MPI for this patient, the following message is shown indicating a query was sent to the MPI and on what date, Figure 3-27; however, in this case the user selected not to review the previous query.

```
A query was last sent for this ICN on <date>.
Do you wish to review that existing query data now? YES// NO
```

Figure 3-27: Query has already been sent to the MPI PDAT• Do not display existing query data

If for any reason you want to send a new query, simply *reject the default answer and respond NO*. Figure 3-28.

```
Sending a Remote Query to the Master Patient Index.
This will take some time; please be patient.
```

Figure 3-28: Resend query to the MPI PDAT for current patient data

It is possible that it may take some time for the query request to return the data from the MPI. The software will try for up to 30 seconds to get a response. If data is not returned within that timeframe, you might see a message instructing you to check back later to send another query, Figure 3-29.

```
Your query request has NOT returned data from the MPI after trying for
   30 seconds. This could be due to network issues. Please try again later.
```

Figure 3-29: Query data has NOT returned from the MPI. Please check back later.

When the query data has returned from the MPI and is available for review, a new page/screen displays the MPI Patient Data Inquiry (PDAT) report.

Why VA Facilities Need to Know the Current Activity Scores for Patient Identity Fields

Patient identity fields in the Primary View of the MPI are evaluated and updated based on scoring and data rules and displayed at the top of the MPI Patient Data Inquiry [MPI DATA MGT PDAT MPI] option.

NOTE: For a list of the patient identity fields that make up the Primary View on the MPI, see the Appendix titled "Primary View Identity Traits" in the Master Patient Index/Patient Demographics (MPI/PD) VistA User Manual.

The Primary View score is evaluated based on criteria captured from patient encounters at VA facilities (e.g., active prescriptions, admission or registration in the last year, lab test, or radiology exam in the last year) that are sending the inbound update (i.e., data entered by users or sent from a system of interest) to the MPI. The score is calculated from data updates coming from the site. Data is weighed on a field-by-field basis against any differences on the MPI to determine if the score for the inbound edits is equal to or greater than the score for the existing Primary View. Next, the inbound edit is evaluated against Primary View data rules.

Edits to key patient identity fields accepted for the update to the Primary View are broadcasted out to all systems of interest for that patient that do not already have the updated data. Data that does not meet or exceed the current score and pass the data rules generate reject exceptions, which are sent back to the site that attempted the edit. This creates an exception type in the MPI/PD Exception Handling option named View PV Rej Detail (PVR). This exception shows them when their edit was rejected and why.

Site edits to patient identity data that have existing activity scores equal to 1000 will cause those edits to reject. Access to the MPI Patient Data Inquiry [MPI DATA MGT PDAT MPI] option allows sites to see the current activity scores providing an understanding why an edit isn't working and is causing a reject exception.

Use Patient MPI/PD Data Inquiry Option to View Patient Exception Information at Your Site

The Patient MPI/PD Data Inquiry [RG EXCEPTION TF INQUIRY] shows you patient information at your site that is useful when dealing with exceptions and CMOR Change Requests.

```
Select Message Exception Menu Option: Patient MPI/PD Data Inquiry

This report prints MPI/PD Data for a selected patient.  The
information displayed includes the Integration Control Number
(ICN), Coordinating Master of Record (CMOR), MPI/PD Activity
Score, Subscription Control Number, Treating Facility list,
CMOR History and CMOR Change Request History.

The information is pulled from the Patient (#2) file, Treating
Facility List (#391.91) file and MPIF CMOR Request (#984.9) file.

Patient lookup can be done by Patient Name/SSN or by ICN.

Select PATIENT:  MPIPATIENT,MICHAEL J. <Enter> 01-01-42  666111111 YES SC VETERAN
(OTHER)   *MULTIPLE BIRTH*

DEVICE: HOME// <Enter>

MPI/PD Data for: MPIPATIENT,MICHAEL J.  (DFN #100000105)
Printed Mar 05, 2007@12:11:11 at ALBANY
================================================================================
SSN    : 666111111                          ICN : 1001111111
Sex    : MALE                               CMOR: ALBANY
Claim #: 000111111                          CMOR Activity Score   : None
Date of Birth: Jan 01, 1942                 Subscription Control #: None
Multiple Birth Indicator: YES
Address: 1100 MAIN ST
         BUTLER, MARYLAND 16001

Treating Facilities:  Station:  DT Last Treated         Event Reason
--------------------  --------  --------------         ------------
ALBANY                500       JUN 7,2006@15:00       PATIENT ADMISSION
DETROIT               553       none found             none found

ICN History:
------------
AUG 07, 2003 - CMOR changed from ALBANY
FEB 18, 2004 - CMOR changed from DETROIT

CMOR History:
--------------
ALBANY - changed SEP 15,2000@14:12:20

CMOR Change Request History:
----------------------------
REQUEST #500-38 - SENT OCT 30,2000
   Type of Request: TRANSFER TO DETROIT
   Status         : REQUESTED

Additional DPT Data for: MPIPATIENT,MICHAEL J.   (DFN #100000105)
================================================================================
PLACE OF BIRTH [CITY]          : COLUMBUS
PLACE OF BIRTH [STATE]         : OHIO
```

```
FATHER'S NAME                  : MPI,FATHER
MOTHER'S NAME                  : MPI,MOTHER
MOTHER'S MAIDEN NAME           : MPIMAIDEN
NAME OF PRIMARY NEXT OF KIN    : MPI,NEXTOFKIN
NEXT OF KIN PHONE NUMBER       : 555-555-1212
NAME OF DESIGNEE               :
EMERGENCY NAME                 : MPI,EMERGENCY
MARITAL STATUS                 : DIVORCED
RELIGIOUS PREFERENCE           : NO PREFERENCE
PRIMARY ELIGIBILITY CODE       : NSC
VETERAN (Y/N)?                 : YES
SERVICE BRANCH [LAST]          : AIR FORCE
SERVICE NUMBER [LAST]          : 000337777
SERVICE CONNECTED PERCENT      :
SERVICE ENTRY DATE [LAST]      :
SERVICE SEPARATION DATE [LAST] : JAN 24, 1987
PERIOD OF SERVICE              : VIETNAM ERA
DATE ENTERED IN PATIENT FILE   : DEC 19, 2000
ETHNICITY INFORMATION          : HISPANIC OR LATINO
RACE INFORMATION (multiple):
```

Figure 3-30: Patient MPI/PD Data Inquiry

```
Select Message Exception Menu Option: Patient MPI/PD Data Inquiry

This report prints MPI/PD Data for a selected patient.  The
information displayed includes the Integration Control Number
(ICN), Coordinating Master of Record (CMOR), MPI/PD Activity
Score, Subscription Control Number, Treating Facility list,
CMOR History and CMOR Change Request History.

The information is pulled from the Patient (#2) file, Treating
Facility List (#391.91) file, and MPIF CMOR Request (#984.9) file.

Patient lookup can be done by Patient Name/SSN or by ICN.

Select PATIENT:  MPIPATIENT,MICHAEL J. <Enter> 01-01-42    666111111     YES     SC
VETERAN (OTHER)

DEVICE: HOME// <Enter>


MPI/PD Data for: MPIPATIENT,MICHAEL J.  (DFN #100000105)
Printed Mar 05, 2007@12:11:11 at ALBANY
================================================================================
SSN    : 666111111                          ICN : 1001111111
Sex    : MALE                               CMOR: ALBANY
Claim #: 000111111                          CMOR Activity Score   : None
Date of Birth: Jan 01, 1942                 Subscription Control #: None
Address: 1100 MAIN ST
        BUTLER, MARYLAND 16001

Treating Facilities:  Station:  DT Last Treated         Event Reason
--------------------  --------  ---------------         ------------
ALBANY                500       JUN 7,2006@15:00        PATIENT ADMISSION
DETROIT               553       none found              none found

ICN History:
------------

CMOR History:
--------------
ALBANY - changed SEP 15,2000@14:12:20

CMOR Change Request History:
----------------------------
REQUEST #500-38 - SENT OCT 30,2000
   Type of Request: TRANSFER TO DETROIT
   Status         : REQUESTED

Additional DPT Data for: MPIPATIENT,MICHAEL J.   (DFN #100000105)
================================================================================
PLACE OF BIRTH [CITY]          :
PLACE OF BIRTH [STATE]         :
FATHER'S NAME                  :
MOTHER'S NAME                  :
MOTHER'S MAIDEN NAME           :
NAME OF PRIMARY NEXT OF KIN    : MPI,NEXTOFKIN
NEXT OF KIN PHONE NUMBER       : 555-555-1212
NAME OF DESIGNEE               :
EMERGENCY NAME                 : MPI,EMERGENCY
MARITAL STATUS                 : DIVORCED
RELIGIOUS PREFERENCE           : NO PREFERENCE
```

```
RACE                              :
PRIMARY ELIGIBILITY CODE          : NSC
VETERAN (Y/N)?                    : YES
SERVICE BRANCH [LAST]             : AIR FORCE
SERVICE NUMBER [LAST]             : 000337777
SERVICE CONNECTED PERCENT         :
SERVICE ENTRY DATE [LAST]         :
SERVICE SEPARATION DATE [LAST] : JAN 24, 1987
PERIOD OF SERVICE                 : VIETNAM ERA
DATE ENTERED IN PATIENT FILE      : DEC 19, 2000
```

Figure 3-31: Patient MPI/PD Data Inquiry

NOTE: Exceptions Deleted for Patient Records Following a Duplicate Record Merge

When records were merged using the Kernel Toolkit Duplicate Resolution System [XDR MAIN MENU], there have been cases where exceptions existed for some of these records. When a facility attempted to resolve these exceptions using the MPI/PD Exception Handling option [RG EXCEPTION HANDLING], these exceptions were sent to the MPI.

MPI/PD Patch RG*1*29 corrects this pattern by deleting any existing exceptions on file for a patient record being merged into another record. In addition, users will no longer be restricted from merging records when both records in a duplicate pair have a national ICN. A call to the API A40^MPIFA40 was added to send HL7 messages to the MPI to remove the "FROM" record and send messages to the "FROM" record's Treating Facilities to change ICNs to the "TO" record ICN. These changes address NOIS PUG-0902-51018.

Chapter 4: Resolving Exceptions

This chapter describes strategies for resolving exception message types, both included and not included in the MPI/PD Exception Handling option. The information is organized in two sections:

- MPI/PD Exception Messages Listed on the Exception Handling Option
- MPI/PD Exception Messages Not Listed on the Exception Handling Option

Within each section, it's categorized by first listing the exception message itself, then by providing the recommended approach to its resolution.

MPI/PD Exception Messages Listed on the Exception Handling Option

Exception Message	**Primary View Reject** Rejected edits to the Primary View on the MPI generate this exception, which is sent back to the site that attempted the edit. Site personnel can use this exception to view more details about rejected data from the MPI in Austin, allowing them to see why their edit was rejected.
Resolution	It is recommended that sites review their rejected data to determine why the reject occurred. This is intended to help determine if local education needs to take place to prevent future data rejects. If your site determines the edit in question is valid, contact the HC IdM team for assistance via the following e-mail groups: • MPIF EXCEPTIONS mail group (local VistA) • CIRN EXCEPTION MGT mail group (FORUM) • VHA OI IA MPI DQ Team distribution group on Outlook **Marking Reject Exceptions Complete and Clearing them from the Exception Handler** When this information has been reviewed and is no longer needed, return to the MPI/PD EXCEPTION ACTIONS screen. Mark the exception as finished by using the "UPD Update to Processed" action.

Table 4-1: Exception message—"Primary View Reject" and resolution

MPI/PD Exception Messages *Not* Listed on the Exception Handling Option

Exception Message	**Potential Duplicate PATIENT Records Found by MPI** Previously, when the Healthcare Identity Management (HC IdM) found duplicate patients at a VistA site, an MPI/PD exception was generated and an email message with the subject "MPI/PD Exception: Multiple ICNs" was sent. The local site was instructed to add the patients to their DUPLICATE RECORD file (#15) using the Duplicate Record System, and to resolve the duplicate pair. With the implementation of the Initiate Identity Hub, a commercial search engine that is part of the Person Service Identity Management (PSIM) project, this MPI/PD exception will no longer be generated. Instead, potential duplicate record pairs identified by Initiate are added directly to your local DUPLICATE RECORD file (#15), and an email message is sent to members of the mail group stored in the DUPLICATE MANAGERS MAIL GROUP on your local DUPLICATE RESOLUTION file (see example email below). In addition, the options within the Duplicate Resolution System menu that were previously used to search for potential duplicate patients will no longer be available. Although users with access to the Duplicate Resolution System menus will still be allowed to add records to the DUPLICATE RECORD file (#15) on a one-by-one basis, this file will mainly be populated when Initiate identifies patient pairs as matches or potential matches. **Example:** `Subj: Potential Duplicate PATIENT records found by MPI [#128343]` `10/14/08@17:48` `8 lines` `From: POSTMASTER In 'IN' basket. Page 1` `---` `The following two PATIENT records have been found to be potential duplicates by the MPI matching algorithm. These records have been added to the local DUPLICATE RECORD file and assigned record number 213. Please review these records to verify whether they are duplicates and if so merge using the DUPLICATE RECORD MERGE software.`  `PATIENT 1: MPIPATIENT,JILL 080-94-9025 (IEN #100001509)` `PATIENT 2: MPIPATIENT,JILL 080-94-9024 (IEN #100001506)`  `Enter message action (in IN basket): Ignore//` **MPI/PD Exception: Potential Duplicate PATIENT Records Found by MPI**
Resolution	To resolve this, it is necessary to verify if the record pair is in fact a duplicate, and if applicable, continue with the merge process.

Table 4-2: Exception message—"Potential Duplicate PATIENT Records Found by MPI" and resolution

Glossary

.001 Field	A field containing the internal entry number of the record.
.01 Field	The one field that must be present for every file and file entry. It is also called the NAME field. At a file's creation the .01 field is given the label NAME. This label can be changed.
10-10EZ	Form used to apply for health benefits.
AAC	Austin Automation Center (renamed Austin Information Technology Center [AITC])
Abbreviated Response	This feature allows you to enter data by typing only the first few characters for the desired response. This feature will not work unless the information is already stored in the computer.
Accept Agreement	Part of the validation and agreement to the privacy regulations associated with Identity Management Data Quality Toolkit (IMDQ TK)
Access Code	A code that, along with the Verify code, allows the computer to identify you as a user authorized to gain access to the computer. Your code is greater than 6 and less than 20 characters long; can be numeric, alphabetic, or a combination of both; and is usually assigned by a site manager or application coordinator. It is used by the Kernel's Sign-on/Security system to identify the user (see Verify Code).
Active Patients	Patients who have been seen at a site within the past three years.
ADPAC	Automated Data Processing Application Coordinator.
ADR	The Administrative Data Repository is a centralized database repository for person (PATIENT [#2] and NEW PERSON [#200] files). It is the authoritative data store within VHA for cross-cutting person administrative information. The Administrative Data Repository contains identification and cross-cutting demographics data as well as other administrative information.
ADT	Admission Discharge and Transfer- Part of the Patient Information Management System (PIMS).
ADT/HL7 PIVOT File	Changes to any of the fields of patient information will be recorded and an entry created in the ADT/HL7 PIVOT file (#391.71). When an update to a patient's treating facility occurs, this event is to be added to the ADT/HL7 PIVOT file (#391.71) and marked for transmission. A background job will collect these updates and broadcast the appropriate HL7 message (ADT-A08 Patient Update).
AITC	Austin Information Technology Center (formerly Austin Automation Center [AAC])

Alerts Brief online notices that are issued to users as they complete a cycle through the menu system. Alerts are designed to provide interactive notification of pending computing activities, such as the need to reorder supplies or review a patient's clinical test results. Along with the alert message is an indication that the View Alerts common option should be chosen to take further action.

Ancillary Reviewer This can be a single person or group of people given the responsibility to conduct reviews of potential duplicate record pairs with data in files other than the PATIENT file (#2). For example, selected personnel in Laboratory, Radiology, and Pharmacy.

ANSI American National Standards Institute.

ANSI M The M (formerly known as MUMPS) programming language is a standard recognized by the American National Standard Institute (ANSI). M stands for Massachusetts Utility Multi-programming System.

API Program calls provided for use by application programmers. APIs allow programmers to carry out standard computing activities without needing to duplicate utilities in their own software. APIs also further DBA goals of system integration by channeling activities, such as adding new users, through a limited number of callable entry points. VistA APIs fall into the following three categories:

- The first category is "Supported API" These are callable routines, which are supported for general use by all VistA applications.
- The second category is "Controlled Subscription API." These are callable routines for which you must obtain an Integration Agreement (IA - formerly referred to as a DBIA) to use.
- The third category is "Private API," where only a single application is granted permission to use an attribute/function of another VistA package.

These IAs are granted for special cases, transitional problems between versions, and release coordination.

Application Coordinator Designated individuals responsible for user-level management and maintenance of an application package such as IFCAP, Lab, Pharmacy, Mental Health, etc.

Array An arrangement of elements in one or more dimensions. An M array is a set of nodes referenced by subscripts that share the same variable name.

AT-SIGN ("@") A VA FileMan security Access code that gives the user programmer-level access to files and to VA FileMan's developer features. See Programmer Access. Also, the character "**@**" (i.e., at-sign, Shift-2 key on most keyboards) is used at VA FileMan field prompts to delete data.

Auto-Update The term "auto-update" refers to fields that are updated from a central database (i.e., the Master Patient Index).

Batch The format of a HL7 batch acknowledgement message consists entirely of a group

Acknowledgements	of ACK (acknowledgment) messages. In the case of MPI, batch acknowledgements are returned during the initialization process and during the Local/Missing ICN Resolution job. The background job files the ICN, ICN checksum and CMOR, updates the MPI, and then the associated treating facilities and systems. Data returned from this process constitute the acknowledgment of the batch message.
Batch Messages	There are instances when it is convenient to transfer a batch of HL7 messages. Common examples related to MPI are queries sent to the MPI for an ICN during the initialization process, the resolution of Local or Missing ICNs, and CMOR Batch Comparisons. Such a batch could be sent online using a common file transfer protocol. In the case of the MPI, the HL7 Batch Protocol uses the Batch Header Segment (BHS) and Batch Trailer Segment (BTS) message segments to delineate the batch.
BHIE	Bidirectional Health Information Exchange
Bulletins	Electronic mail messages that are automatically delivered by VistA MailMan under certain conditions. For example, a bulletin can be set up to "fire" when database changes occur, such as adding a new Institution in the INSTITUTION file (#4). Bulletins are fired by bulletin-type cross-references.
Callable Entry Point	An authorized programmer call that may be used in any VistA application package. The DBA maintains the list of DBIC-approved entry points.
CAPRI	Compensation & Pension Records Interchange (CAPRI). This Graphical User Interface (GUI) software is used to access veterans' electronic medical records throughout the VA. The Healthcare Identity Management (HC IdM) Team uses CAPRI as a resource for reviewing patient demographic and clinical data.
CDCO	Corporate Data Center Operations (formerly Corporate Franchise Data Center [CFD])
CHDR	Clinical Data Repository (CDR) Health Data Repository
Checksum	The result of a mathematical computation involving the individual characters of a routine or file.
Client	A single term used interchangeably to refer to the user, the workstation, and the portion of the program that runs on the workstation. In an object-oriented environment, a client is a member of a group that uses the services of an unrelated group. If the client is on a local area network (LAN), it can share resources with another computer (server).
Clinical Patient Record System (CPRS)	Clinical Patient Record System provides a computer-based patient record and organizes and presents all relevant data on a patient in a way that directly supports clinical decision-making. CPRS integrates the extensive set of clinical and administrative applications available within VistA.
Common Menu	The Common menu consists of options that are available to all users. Entering two question marks at the menus select prompt displays any secondary menu options

	available to the signed-on user, along with the common options available to all users.
Controlled Subscription Integration Agreement	This applies where the IA describes attributes/functions that must be controlled in their use. The decision to restrict the IA is based on the maturity of the custodian package. Typically, these IAs are created by the requesting package based on their independent examination of the custodian package's features. For the IA to be approved, the custodian grants permission to other VistA packages to use the attributes/functions of the IA; permission is granted on a one-by-one basis where each is based on a solicitation by the requesting package. An example is the extension of permission to allow a package (e.g., Spinal Cord Dysfunction) to define and update a component that is supported within the Health Summary package file structures.
Correlation	Comparison of person identity traits for multiple records with the Primary View in the ADR and/or MPI databases.
COTS	Commercial Off-the-Shelf. COTS refers to software packages that can be purchased by the public and used in support of VistA.
Cross Reference	There are several types of cross-references available. Most generally, a VA FileMan cross-reference specifies that some action be performed when the field's value is entered, changed, or deleted. For several types of cross-references, the action consists of putting the value into a list; an index used when looking-up an entry or when sorting. The regular cross-reference is used for sorting and for lookup; you can limit it to sorting only.
Data	A representation of facts, concepts, or instructions in a formalized manner for communication, interpretation, or processing by humans or by automatic means. The information you enter for the computer to store and retrieve. Characters that are stored in the computer system as the values of local or global variables. VA FileMan fields hold data values for file entries.
Data Attribute	A characteristic unit of data such as length, value, or method of representation. VA FileMan field definitions specify data attributes.
Data Dictionary (DD)	The Data Dictionary is a global containing a description of the kind of data that is stored in the global corresponding to a particular file. VA FileMan uses the data internally for interpreting and processing files. It contains the definitions of a file's elements (fields or data attributes), relationships to other files, and structure or design. Users generally review the definitions of a file's elements or data attributes; programmers review the definitions of a file's internal structure.
Data Dictionary Access	A user's authorization to write/update/edit the data definition for a computer file. Also known as DD Access.
Data Integrity	This term refers to the condition of patient records in terms of completeness and correctness. It also refers to the process in which a particular patient’s data is

	synchronized at all the sites in which that patient receives care.
Data Type	A specific field or type of information, such as Name, Social Security Number, etc.
Database	A set of data, consisting of at least one file, that is sufficient for a given purpose. The VistA database is composed of a number of VA FileMan files. A collection of data about a specific subject, such as the PATIENT file (#2); a data collection has different data fields (e.g. patient name, SSN, Date of Birth, and so on). An organized collection of data about a particular topic.
Database Management System (DBMS)	A collection of software that handles the storage, retrieval, and updating of records in a database. A Database Management System (DBMS) controls redundancy of records and provides the security, integrity, and data independence of a database.
Database, National	A database that contains data collected or entered for all VHA sites.
Date of Death	A patient may be entered as deceased at a treating facility. If a shared patient is flagged as deceased, an RG CIRN DEMOGRAPHIC ISSUES bulletin is sent to each treating facility telling where, when, and by whom the deceased date was entered. Each site can then review whether the patient should be marked as deceased at their site.
DBA	Database Administrator, oversees software development with respect to VistA Standards and Conventions (SAC) such as namespacing. Also, this term refers to the Database Administration function and staff.
DBIA	Database Integration Agreement (see Integration Agreements [IA]).
Default	Response the computer considers the most probable answer to the prompt being given. It is identified by double slash marks (//) immediately following it. This allows you the option of accepting the default answer or entering your own answer. To accept the default you simply press the Enter (or Return) key. To change the default answer, type in your response.
Demographic Data	Identifying descriptive data about a patient, such as: name, sex, date of birth, marital status, religious preference, SSN, address, etc.
Demographics	Information about a person, such as name, address, service record, next of kin, and so on.
Department of Veterans Affairs	The Department of Veterans Affairs (formerly known as the Veterans Administration.)
Device	Peripheral connected to the host computer, such as a printer, terminal, disk drive, modem, and other types of hardware and equipment associated with a computer. The host files of underlying operating systems may be treated like devices in that they may be written to (e.g., for spooling).
DHCP	Decentralized Hospital Computer Program (now known as Veterans Health Information Systems and Technology Architecture [VistA]). VistA software,

	developed by VA, is used to support clinical and administrative functions at VA Medical Centers nationwide. It is written in M and, via the Kernel, runs on all major M implementations regardless of vendor. VistA is composed of packages that undergo a verification process to ensure conformity with namespacing and other VistA standards and conventions.
Dictionary	Database of specifications of data and information processing resources. VA FileMan's database of data dictionaries is stored in the FILE of files (#1).
Direct Connect	The Direct Connect is a real-time TCP/IP connection to the MPI to allow for an immediate request for an ICN. Direct Connect is activated when using any of the following PIMS options: • Register A Patient, • Load/Edit Patient Data, • Electronic 10-10EZ Processing, and when using the: • Display Only Query
Direct Mode Utility	A programmer call that is made when working in direct programmer mode. A direct mode utility is entered at the MUMPS prompt (e.g., >D ^XUP). Calls that are documented as direct mode utilities cannot be used in application software code.
DoD	Department of Defense.
Domain	A site for sending and receiving mail.
Double Quotes ("")	Symbol used in front of a Common option's menu text or synonym to select it from the Common menu. For example, the five-character string "TBOX" selects the User's Toolbox Common option.
Duplicate Record Merge: Patient Merge	Patient Merge is a VistA application that provides an automated method to eliminate duplicate patient records within the VistA database (i.e., the VistA PATIENT file [#2]).
DUZ	Local variable holding the user number that identifies the signed-on user.
DUZ(0)	Local variable that holds the File Manager Access Code of the signed-on user.
EIE	Enterprise Infrastructure Engineering
Electronic Signature Code	Secret password that some users may need to establish in order to sign documents via the computer.
Eligibility Codes	Codes representing the basis of a patient's eligibility for care.
Encryption	Scrambling data or messages with a cipher or code so that they are unreadable without a secret key. In some cases encryption algorithms are one directional, that is, they only encode and the resulting data cannot be unscrambled (e.g.

	access/verify codes).
Entry	VA FileMan record. An internal entry number (IEN, the .001 field) uniquely identifies an entry in a file.
EPG	Engineering Process Group (EPG) (formerly known as Software Engineering Process Group [SEPG]).
Error Trap	A mechanism to capture system errors and record facts about the computing context such as the local symbol table, last global reference, and routine in use. Operating systems provide tools such as the %ER utility. The Kernel provides a generic error trapping mechanism with use of the ^%ZTER global and ^XTER* routines. Errors can be trapped and, when possible, the user is returned to the menu system.
ESR	Enrollment Systems Redesign is a centralized and Reengineered enrollment system.
EVC	Enrollment VistA Changes
EVS	Enterprise VistA Support (renamed to Product Support)
Exception	A task that has encountered an error in personal data. Any Data Quality issue that requires detailed documentation. HC IdM finds an Exception based on business rules.
Exception Message	MPI/PD VistA generates messages and bulletins to alert the user to problems that occur in generating or processing HL7 messages. The MPI/PD Message Exception Menu contains options to manage the problems.
Extrinsic Function	Extrinsic function is an expression that accepts parameters as input and returns a value as output that can be directly assigned.
Facility	Geographic location at which VA business is performed.
FHIE	Federal Health Information Exchange
Field	HL7: An HL7 field is a string of characters defined by one of the HL7 data types. VistA: In a record, a specified area used for the value of a data attribute. The data specifications of each VA FileMan field are documented in the file's data dictionary. A field is similar to blanks on forms. It is preceded by words that tell you what information goes in that particular field. The blank, marked by the cursor on your terminal screen, is where you enter the information.
Field Components	A field entry may also have discernable parts or components. For example, the patient's name is recorded as last name, first name, and middle initial, each of which is a distinct entity separated by a component delimiter (sub-subfield in astm e1238-94).

File	Set of related records treated as a unit. VA FileMan files maintain a count of the number of entries or records.
File Manager (VA FileMan)	VistA's Database Management System (DBMS). The central component of Kernel that defines the way standard VistA files are structured and manipulated.
FORM	Please refer to the Glossary entry for "ScreenMan Forms."
FORUM	The central E-mail system within VistA. Developers use FORUM to communicate at a national level about programming and other issues. FORUM is located at the OI Field Office—Washington, DC (162-2).
Free Text	A DATA TYPE that can contain any printable characters.
GAL	Global Address List.
Global Variable	Variable that is stored on disk (M usage).
GUI	Graphical User Interface.
Health Level 7 (HL7) Batch Protocol	Protocol utilized to transmit a batch of HL7 messages. The protocol generally uses FHS, BHS, BTS and FTS segments to delineate the batch. In the case of the MPI, the protocol only uses the BHS and BTS segments.
Health Level Seven (HL7)	National standard for electronic data exchange/messaging protocol. HL7 messages are the dominant standard for peer-to-peer exchange of clinical, text-based information.
Health Level Seven (HL7) VistA	Messaging system developed as VistA software that follows the HL7 Standard for data exchange.
Health*e*Vet-VistA	The next generation of VistA, HealtheVet-VistA, will retain all of the capabilities of legacy VistA but will provide enhanced flexibility for future health care and compliance with the One VA Enterprise Architecture. It will allow seamless data sharing between all parts of VA to benefit veterans and their families.
HEC	Health Eligibility Center.
Help Frames	Entries in the HELP FRAME file (#9.2) that can be distributed with application packages to provide online documentation. Frames can be linked with other related frames to form a nested structure.
Help Prompt	The brief help that is available at the field level when entering one or more question marks.
HINQ	Hospital Inquiry- The HINQ module provides the capability to request and obtain veteran eligibility data via the VA national telecommunications network. Individual or group requests are sent from a local computer to a remote Veterans Benefits Administration (VBA) computer where veteran information is stored. The VBA network that supports HINQ is composed of four computer systems

	located in regional VA payment centers.
HIPAA	Health Insurance Portability and Accountability Act
HL7	National standard for electronic data exchange/messaging protocol.
HLO	HL7 Optimized. VistA HL7 package routines.
ICN	Patients are assigned a unique identifier, known as an Integration Control Number (ICN), within the process of being added to the MPI database. This number links patients to their records across VHA systems. The Integration Control Number is a unique identifier assigned to patients when they are added to the MPI. The ICN follows the ASTM-E1714-95 standard for a universal health identifier.
ICN/VPID	A combination of Integration Control Number and Veterans Administration Personal Identifier used to uniquely identify a person or record.
ID State	An attribute of the Primary View, which describes whether the Primary View is Permanent, Temporary, or Deactivated. ID State is composed of the following two fields from the MPI VETERAN/CLIENT file (#985): • ID STATE (#80) is a set of codes: PERMANENT, TEMPORARY, and DEACTIVATED. Auditing is enabled for this field. • DATE OF ID STATE (#81) identifies when the ID STATE field was last updated.
Identity Hub	Initiate's Probabilistic Algorithm implementation.
IMDQ **New name: "Healthcare Identity Management (HC IdM)"**	The Identity Management Data Quality Team (renamed the Healthcare Identity Management Team) is a group of Data Management Analysts committed to improving and safeguarding the quality and accessibility of patient data throughout the VA enterprise. They are involved in many data quality initiatives, but their primary role is to assist VHA facilities in all matters related to the MPI.
IMDQ Toolkit	Identity Management Data Quality ToolKit. The IMDQ Toolkit will provide functionality to allow HC IdM staff to search and view identity and exception information in ADR. This includes the ability to view the Primary View record and any associated correlations, correlation data, history, audit trails, and IMDQ Business Rule Events captured by PSIM and MPI. In addition, functionality is provided to support the re-hosting transition for a side-by-side comparison of ADR and MPI information.
Initiate	Identity Management software vendor that was selected by the VHA to provide an Identity Management Probabilistic Algorithm.
Inpatient	Patient who has been admitted to a hospital in order to be treated for a particular condition.
Input Template	A pre-defined list of fields that together comprise an editing session.

Institution	A Department of Veterans Affairs (VA) facility assigned a number by headquarters, as defined by Directive 97-058. An entry in the INSTITUTION file (#4) that represents the Veterans Health Administration (VHA).
Integration Agreements (IA)	Integration Agreements define agreements between two or more VistA software applications to allow access to one development domain by another. VistA software developers are allowed to use internal entry points (APIs) or other software-specific features that are not available to the general programming public. Any software developed for use in the VistA environment is required to adhere to this standard; as such, it applies to vendor products developed within the boundaries of DBA assigned development domains (e.g., MUMPS AudioFax). An IA defines the attributes and functions that specify access. The DBA maintains and records all IAs in the Integration Agreement database on FORUM. Content can be viewed using the DBA menu or the Health Systems Design & Development's Web page.
Integration Control Number (ICN)	Patients are assigned a unique identifier, known as an Integration Control Number (ICN), within the process of being added to the MPI database. This number links patients to their records across VHA systems. The Integration Control Number is a unique identifier assigned to patients when they are added to the MPI. The ICN follows the ASTM-E1714-95 standard for a universal health identifier.
Internal Entry Number (IEN)	The number used to identify an entry within a file. Every record has a unique internal entry number.
IRM	Information Resource Management. A service at VA medical centers responsible for computer management and system security.
ISO	Information Security Officer.
ISS	Infrastructure and Security Services (now known as Common Services Security Program).
IV&V	IV&V is the principal activity that oversees the successful implementation and execution of all internal control processes for financial and interfacing systems. In order to ensure overall systems integrity, IV&V is accomplished organizationally independent from the elements that acquire, design, develop or maintain the system.
KERNEL	VistA software that functions as an intermediary between the host operating system and other VistA software applications so that VistA software can coexist in a standard operating-system-independent computing environment. Kernel provides a standard and consistent user and programmer interface between software applications and the underlying M implementation.
LAN	Local Area Network.
LAYGO Access	A user's authorization to create a new entry when editing a computer file. (**L**earn **A**s **Y**ou **GO** allows you the ability to create new file entries.)

LDAP	Lightweight Directory Access Protocol.
Lookup	To find an entry in a file using a value for one of its fields.
M (ANSI Standard)	Massachusetts General Hospital Utility Multi-Programming System (M, formerly named MUMPS) is a software package, which consists of a high level programming language and a built-in database.
Mail Message	An entry in the MESSAGE file (#3.9). The VistA electronic mail system (MailMan) supports local and remote networking of messages.
Mailman	VistA software that provides a mechanism for handling electronic communication, whether it's user-oriented mail messages, automatic firing of bulletins, or initiation of server-handled data transmissions.
Manager Account	UCI that can be referenced by non-manager accounts such as production accounts. Like a library, the MGR UCI holds percent routines and globals (e.g., ^%ZOSF) for shared use by other UCIs.
Mandatory Field	Field that requires a value. A null response is not valid.
Master Files	A set of common reference files used by one or more application systems. These common reference files need to be synchronized across the various applications at a given site. The Master Files Notification transactions provide a way of maintaining this synchronization.
Master Patient Index (Austin)	The MPI is a separate computer system located at the Austin Information Technology Center. It maintains a record for VA patients and stores data such as a unique patient identifier and Treating Facility lists (which tracks the sites where that ICN is known).
Master Patient Index/Patient Demographics (MPI/PD) VistA	The Master Patient Index/Patient Demographics (MPI/PD) software resides in VistA enabling sites to: • Request an ICN assignment. • Resolve a potential duplicate on the MPI. • Review and process exceptions received from MPI including Primary View Reject exceptions. • Query the MPI (Austin) for known data. • Update the MPI when changes occur to demographic fields stored on the MPI or of interest to other facilities/systems of interest.
Menu	List of choices for computing activity. A menu is a type of option designed to identify a series of items (other options) for presentation to the user for selection. When displayed, menu-type options are preceded by the word "Select" and followed by the word "option" as in Select Menu Management option: (the menu's select prompt).
Menu System	The overall Menu Manager logic as it functions within the Kernel framework.

Menu Text The descriptive words that appear when a list of option choices is displayed. Specifically, the Menu Text field of the OPTION file (#19). For example, User's Toolbox is the menu text of the XUSERTOOLS option. The option's synonym is TBOX.

Message Segments Each HL7 message is composed of segments. Segments contain logical groupings of data. Segments may be optional or repeatable. A [ ] indicates the segment is optional, the { } indicates the segment is repeatable. For each message category, there will be a list of HL7 standard segments and/or "Z" segments used for the message.

MPI Austin The MPI is a separate computer system located at the Austin Information Technology Center. It maintains a record for VA patients and stores data such as a unique patient identifier and Treating Facility lists (which tracks the sites where that ICN is known).

MPI Initialization The process of initializing a site's PATIENT file (#2) with the Master Patient Index (MPI). Initialization synchronizes PATIENT file (#2) information (for active shared patients) with the MPI and identifies facilities where the patient has been treated. This process transfers the Integration Control Number (ICN), Coordinating Master of Record (CMOR), and Treating Facility list for each patient to the patient's record in the VistA PATIENT file (#2) at all sites where the patient has been treated. It is also possible to initialize an individual patient to the MPI. This is done through menu options. The initial synchronization of PATIENT file (#2) information (for active, shared patients) with the Master Patient Index and with the patient's treating facilities is an important step in the implementation of the MPI/PD software system.

MPI/PD The Master Patient Index/Patient Demographics (MPI/PD) software resides in VistA enabling sites to:

- Request an ICN assignment.
- Resolve a potential duplicate on the MPI.
- Review and process exceptions received from MPI including Primary View Reject exceptions.
- Query the MPI (Austin) for known data.
- Update the MPI when changes occur to demographic fields stored on the MPI or of interest to other facilities/systems of interest.

Namespace A convention for naming VistA package elements. The Database Administrator (DBA) assigns unique character strings for package developers to use in naming routines, options, and other package elements so that packages may coexist. The DBA also assigns a separate range of file numbers to each package.

Namespacing Convention for naming VistA software elements. The DBA assigns unique two to four character string prefix for software developers to use in naming routines, options, and other software elements so that software can coexist. The DBA also assigns a separate range of file numbers to each software application.

NDBI National Database Integration

Node	In a tree structure, a point at which subordinate items of data originate. An M array element is characterized by a name and a unique subscript. Thus the terms: node, array element, and subscripted variable are synonymous. In a global array, each node might have specific fields or "pieces" reserved for data attributes such as name.
Null	Empty—A field or variable that has no value associated with it is null.
Numeric Field	Response that is limited to a restricted number of digits. It can be dollar valued or a decimal figure of specified precision.
OED	Office of Enterprise Development
OI&T	Office of Information Technology
OIFO	Office of Information Field Office.
Option	An entry in the OPTION file (#19). As an item on a menu, an option provides an opportunity for users to select it, thereby invoking the associated computing activity. Options may also be scheduled to run in the background, non-interactively, by TaskMan.
Option Name	Name field in the OPTION file (e.g., XUMAINT for the option that has the menu text "Menu Management"). Options are namespaced according to VistA conventions monitored by the DBA.
Package (Software)	The set of programs, files, documentation, help prompts, and installation procedures required for a given application (e.g., Laboratory, Pharmacy, and PIMS). A VistA software environment is composed of elements specified via the PACKAGE file (#9.4). Elements include files, associated templates, namespaced routines, and namespaced file entries from the OPTION, HELP FRAME, BULLETIN, and FUNCTION files. As public domain software, VistA software can be requested through the Freedom of Information Act (FOIA).
PIMS	Patient Information Management System- VistA software package that includes Registration and Scheduling packages.
Pointer	The address at which a data value is stored in computer memory. A relationship between two VA FileMan files, a pointer is a file entry that references another file (forward or backward). Pointers can be an efficient means for applications to access data by referring to the storage location at which the data exists.
Primary Key	A Data Base Management System construct, where one or more fields uniquely define a record (entry) in a file (table). The fields are required to be populated for every record on the file, and are unique, in combination, for every record on the file.
Primary Menu	The list of options presented at sign-on. Each user must have a primary menu in order to sign-on and reach Menu Manager. Users are given primary menus by Information Resource Management (IRM). This menu should include most of the

computing activities the user needs.

Primary Reviewer This can be a single person or group of people given the overall responsibility to initiate reviews of potential duplicate record pairs. For example, selected personnel in Patient Administration or a task force or group formed to oversee and conduct the effort of reducing or eliminating the occurrence of duplicate records in the site's database.

Primary View Primary View of the MPI is a business process that updates the patient identity fields across VA facilities, overview as follows:

- Primary View is an update to the patient identity fields across VA facilities.
- Primary View creates a centralized view of the patient data aka a Primary View
- Primary View has the best data from any combination of sites for the patient
- Synchronizing the patient identity fields becomes centralized under a new set of business rules on the MPI.
- Primary View is a transition from and *disassociated* with the Coordinating Master of Record (CMOR) view of the MPI.
- Primary View removes the burden placed on sites to process the Patient Data Review (PDR) entries.
- Primary View allows for:
    - VistA sites to continue to edit their own patient data.
    - Patient data is sent to a central system (i.e., the Master Patient Index) to determine validity and quality

This is an enterprise view of the most current data for a patient based on authority scoring and the latest data rules. Edits to patient identity traits are evaluated based on the same. The highest score achieves the best quality of data updates to the Primary View.

Primary View Initialization Primary View Initialization is a process that occurs on the MPI. This process applies significant enhancements to the MPI business logic to support a more centralized approach to creating and maintaining an Enterprise "Primary View" of the Patient record based on Business Rules instead of CMOR values. “Primary View” is the new centralized Enterprise “View” of a patient on the MPI after the initialization process has been executed, making existing patients on the MPI “Primary View Initialized”. Any subsequent records created after “Primary View Initialization” has been run on the MPI will automatically be “Primary View” based.

Private Integration Agreement Where only a single application is granted permission to use an attribute/function of another VistA package. These IAs are granted for special cases, transitional problems between versions, and release coordination. A Private IA is also created by the requesting package based on their examination of the custodian package's features. Example: one package distributes a patch from another package to ensure smooth installation.

Prompt	The computer interacts with the user by issuing questions called prompts, to which the user issues a response.
Protocol	Entry in the PROTOCOL file (#101). Used by the Order Entry/Results Reporting (OE/RR) package to support the ordering of medical tests and other activities.
PS	Product Support, formerly Enterprise Product Support (EPS).
Pseudo-SSNs	False Social Security Numbers that are calculated internally to VistA and cannot be mistaken for valid SSNs because they end in P.
PSIM	VHA's re-hosted Java/Oracle implementation of the MPI's Identity Management Service.
Queuing	Requesting that a job be processed in the background rather than in the foreground within the current session. Jobs are processed sequentially (first-in, first-out). Kernel's TaskMan module handles the queuing of tasks.
Queuing Required	Option attribute that specifies that the option must be processed by Task Manager (the option can only be queued). The option may be invoked and the job prepared for processing, but the output can only be generated during the specified times.
Receiving Site	Receiving Site- As it relates to HL7 Messages, it is the site that the message was sent to.
Record	Set of related data treated as a unit. An entry in a VA FileMan file constitutes a record. A collection of data items that refer to a specific entity (e.g., in a name-address-phone number file, each record would contain a collection of data relating to one person).
REEME	Registration/Eligibility/Enrollment Maintenance and Enhancement
Registration Process	During a registration, if a patient does not have an ICN, the patient is checked against the entries in the MPI to determine if the patient already is established or needs to be added. The MPI may return a list of patients who are possible matches. If the patient is truly new and there are no potential matches on the MPI, the MPI will assign an ICN and assigns the requesting site as the CMOR. If the patient is already known at the MPI, the ICN and CMOR is returned and a HL7 message is sent to the CMOR to add this new facility to the list of Treating Facilities for this patient. Registration for patients who already have an ICN at the Facility. At the CMOR site, ADT-A04 Registration HL7 messages are sent to the MPI and the MPI then sends updates to those sites where the patient is known. These messages update the date of last activity and any changes to descriptive data. At a non-CMOR site an ADT-A04 message is sent to the CMOR, via the MPI.
Remote Procedure Call (RPC)	Remote Procedure Call is a protocol that one program can use to request a service from a program located on another computer network. Essentially M code may take optional parameters to do some work and then return either a single value or an array back to the client application.

Requesting Site Requesting Site- As is relates to HL7 Messages, it is the site initiating a message to another site requesting some action be taken.

Required Field A mandatory field, one that must not be left blank. The prompt for such a field will be repeated until the user enters a valid response.

Reverse Video The reversal of light and dark in the display of selected characters on a video screen. For example, if text is normally displayed as black letters on a white background, reverse video presents the text as white letters on a black background or vice versa.

RG CIRN DEMOGRAPHIC ISSUES mail group The RG CIRN DEMOGRAPHIC ISSUES bulletin controls the sending of the following patient related bulletin:

- Patient Related Bulletin—REMOTE SENSITIVITY INDICATED
- Cause—Patient is marked as sensitive at the sending site but not at receiving site.
- Action to take—No action: message is informational

Routine Program or a sequence of instructions called by a program that may have some general or frequent use. M routines are groups of program lines, which are saved, loaded, and called as a single unit via a specific name.

SAC Standards and Conventions. Through a process of quality assurance, all VistA software is reviewed with respect to SAC guidelines as set forth by the Standards and Conventions Committee (SACC).

SACC VistA's Standards and Conventions Committee. This Committee is responsible for maintaining the SAC.

Scheduling Options The technique of requesting that Task Manager run an option at a given time, perhaps with a given rescheduling frequency.

Screen Editor VA FileMan's Screen-oriented text editor. It can be used to enter data into any WORD-PROCESSING field using full-screen editing instead of line-by-line editing.

ScreenMan Forms Screen-oriented display of fields, for editing or simply for reading. VA FileMan's Screen Manager is used to create forms that are stored in the FORM file (#.403) and exported with a software application. Forms are composed of blocks (stored in the BLOCK file [#.404]) and can be regular, full screen pages or smaller, "pop-up" pages.

Screen-Oriented A computer interface in which you see many lines of data at a time and in which you can move your cursor around the display screen using screen navigation commands. Compare to Scrolling Mode.

Scrolling Mode The presentation of the interactive dialog one line at a time. Compare to Screen-oriented.

SE&I Software Engineering and Integration

Security Key	The purpose of Security Keys is to set a layer of protection on the range of computing capabilities available with a particular software package. The availability of options is based on the level of system access granted to each user.
Sending Site	Sending Site—As it relates to HL7 Messages, it is the site that is transmitting the message to another site.
Sensitive Patient	Patient whose record contains certain information, which may be deemed sensitive by a facility, such as political figures, employees, patients with a particular eligibility or medical condition. If a shared patient is flagged as sensitive at one of the treating sites, a bulletin is sent to the DG SENSITIVITY mail group at each subscribing site telling where, when, and by whom the flag was set. Each site can then review whether the circumstances meet the local criteria for sensitivity flagging.
SEPG	Software Engineering Process Group (SEPG) (renamed the Engineering Process Group [EPG])
Server	The computer where the data and the Business Rules reside. It makes resources available to client workstations on the network. In VistA, it is an entry in the OPTION file (#19) . An automated mail protocol that is activated by sending a message to a server at another location with the "S.server" syntax. A server's activity is specified in the OPTION file (#19) and can be the running of a routine or the placement of data into a file.
Set Of Codes	Usually a preset code with one or two characters. The computer may require capital letters as a response (e.g., M for male and F for female). If anything other than the acceptable code is entered, the computer rejects the response.
Shared Patient	Patient who has been seen at more than one site. The CMOR keeps the Treating Facility list updated every time a new facility where the patient has been seen identifies itself to the MPI. The CMOR then broadcasts, through the MPI, the updated lists to all the other facilities that share this patient.
Site Manger/IRM Chief	At each site, the individual who is responsible for managing computer systems, installing and maintaining new modules, and serving as a liaison to the CIO Field Offices.
Software (Package)	The set of programs, files, documentation, help prompts, and installation procedures required for a given application (e.g., Laboratory, Pharmacy, and PIMS). A VistA software environment is composed of elements specified via the PACKAGE file (#9.4). Elements include files, associated templates, namespaced routines, and namespaced file entries from the OPTION, HELP FRAME, BULLETIN, and FUNCTION files. As public domain software, VistA software can be requested through the Freedom of Information Act (FOIA).
Spacebar Return	You can answer a VA FileMan prompt by pressing the spacebar and then the Return key. This indicates to VA FileMan that you would like the last response you were working on at that prompt recalled.

Special Queuing	Option attribute indicating that Task Manager should automatically run the option whenever the system reboots.
SSDI	Social Security Death Index (SSDI). The SSDI is a database used for genealogical research as well as enabling users to locate a death certificate, find an obituary, and discover cemetery records and track down probate records. The Healthcare Identity Management (HC IdM) Team uses the SSDI (http://ssdi.rootsweb.com/) as a resource for verifying patients' dates of death.
Subscriber	A subscriber is an entity, which receives updates to a patient's descriptive data from other sites. All treating facilities are also made subscribers as part of the MPI/PD processes.
Subscript	A symbol that is associated with the name of a set to identify a particular subset or element. In M, a numeric or string value that: is enclosed in parentheses, is appended to the name of a local or global variable, and identifies a specific node within an array.
Supported Reference Integration Agreement	This applies where any VistA application may use the attributes/functions defined by the IA (these are also called "Public "). An example is an IA that describes a standard API such as DIE or VADPT. The package that creates/maintains the Supported Reference must ensure it is recorded as a Supported Reference in the IA database. There is no need for other VistA packages to request an IA to use these references; they are open to all by default.
Synchronized Patient Data	Key descriptive fields in the PATIENT file (#2) that are updated in all the descriptive subscriber's PATIENT files whenever the fields are edited by a subscriber.
Systems of Interest	The term "systems of interest" refers to VA facilities that have seen patients and entered them as entries onto the MPI. This also refers to non-VistA systems that have a registered interest in a patient (e.g., Federal Health Information Exchange [FHIE], HomeTeleHealth, Person Service Identity Management [PSIM], Health Data Repository [HDR], etc).
Task Manager	Kernel module that schedules and processes background tasks (also called TaskMan)
TCP/IP	Transaction Control Protocol/Internet Protocol. A set of protocols for Layers 3 (Network) and 4 (Transfer) of the OSI network model. TCP/IP has been developed over a period of 15 years under the auspices of the Department of Defense. It is a de facto standard, particularly as higher-level layers over Ethernet. Although it builds upon the OSI model, TCP/IP is not OSI-compliant.
Template	Means of storing report formats, data entry formats, and sorted entry sequences. A template is a permanent place to store selected fields for use at a later time. Edit sequences are stored in the INPUT TEMPLATE file (#.402), print specifications are stored in the PRINT TEMPLATE file (#.4), and search or sort specifications are stored in the SORT TEMPLATE file (#.401).

Threshold, Auto-Link

The Auto-Link Threshold is the level at which an Identity Profile must score against a set of identity traits in order to be considered a match. For most enterprise applications the Auto-Link Threshold would be set at or near the Initiate-suggested Auto Link Threshold. Internal Identity Management Systems (MPI/PSIM) may use a lower score, perhaps the Task Threshold, as an Auto-Link Threshold for identity management decision processes.

Threshold, Task

The Task Threshold (also called the Clerical Review Threshold) is a value that is less than the Auto-Link Threshold. A Comparison Score above the Task Threshold and below the Auto-Link Threshold needs to be reviewed by an Identity Management expert to determine whether the Identity Profile is either a match or not a match for the traits being compared. The Task Threshold is determined and tuned by Identity Management experts and may change over time as software systems and business processes improve. The ideal goal for automated identity matching is to minimize the difference between the Task Threshold and the Auto-Link Threshold.

Treating Facility

Any facility (VAMC) where a patient has applied for care, or has been added to the local PATIENT file (#2) (regardless of VISN) and has identified this patient to the MPI will be placed in the TREATING FACILITY LIST file (#391.91).

Treating Facility List

Table of institutions at which the patient has received care. This list is used to create subscriptions for the delivery of patient clinical and demographic information between sites.

Trigger

A type of VA FileMan cross-reference. Often used to update values in the database given certain conditions (as specified in the trigger logic). For example, whenever an entry is made in a file, a trigger could automatically enter the current date into another field holding the creation date.

Trigger Event

The event that initiates an exchange of messages is called a trigger event. The HL7 Standard is written from the assumption that an event in the real world of health care creates the need for data to flow among systems. The real-world event is called the trigger event. For example, the trigger event "a patient is admitted" may cause the need for data about that patient to be sent to a number of other systems. There is a one-to-many relationship between message types and trigger event codes. The same trigger event code may not be associated with more than one message type.

UCI

User Class Identification, a computing area. The MGR UCI is typically the Manager's account, while VAH or ROU may be Production accounts.

User Access

This term is used to refer to a limited level of access, to a computer system, which is sufficient for using/operating a package, but does not allow programming, modification to data dictionaries, or other operations that require programmer access. Any option, for example, can be locked with the key XUPROGMODE, which means that invoking that option requires programmer access.

The user's access level determines the degree of computer use and the types of computer programs available. The System Manager assigns the user an access

	level.
VA	Department of Veterans Affairs
VA FileMan	VistA's Database Management System (DBMS). The central component that defines the way standard VistA files are structured and manipulated.
VAMC	Veterans Affairs Medical Center.
Variable	Character, or group of characters, that refer(s) to a value. M (previously referred to as MUMPS) recognizes 3 types of variables: local variables, global variables, and special variables. Local variables exist in a partition of main memory and disappear at sign-off. A global variable is stored on disk, potentially available to any user. Global variables usually exist as parts of global arrays. The term "global" may refer either to a global variable or a global array. A special variable is defined by systems operations (e.g., $TEST).
VBA IBBA	VBA Intranet BDN / BIRLS Access (IBBA). This VBA application is designed for Web browser access to veteran information data bases (Currently, Benefits Delivery Network (BDN) and Beneficiary Identification and Resource Locator System (BIRLS) and the Vocational Rehabilitation and Employment master record for an eligibility indicator link). The HC IdM Team uses VBA-IBBA as a resource for verifying patient identity data as well as military information.
VBA SHARE	This is a VBA application which is utilized by the Regional Offices to access BIRLS, C&P, PIF, PHF, Corporate Database, Social Security and COVERS records. The Healthcare Identity Management (HC IdM) Team uses VBA SHARE as a resource for verifying patient identity data as well as military information.
Verify Code	The Kernel's Sign-on/Security system uses the Verify code to validate the user's identity. This is an additional security precaution used in conjunction with the Access code. Verify codes shall be at least eight characters in length and contain three of the following four kinds of characters: letters (lower- and uppercase), numbers, and, characters that are neither letters nor numbers (e.g., "#", "@" or "$"). If entered incorrectly, the system does not allow the user to access the computer. To protect the user, both codes are invisible on the terminal screen.
VHA	Veterans Health Administration.
VIS	Veterans Information Solution (VIS). This intranet-based application is designed to provide a consolidated view of information about veterans and active service members. The HC IdM Team uses VIS as a resource for verifying patient identity data as well as military information.
VISN	Veterans Integrated Service Network
VistA	Veterans Health Information Systems and Technology Architecture (VistA) of the Veterans Health Administration (VHA), Department of Veterans Affairs (VA). VistA software, developed by the VA, is used to support clinical and administrative functions at VHA sites nationwide. It is both roll-and-scroll- and GUI-based software that undergoes a quality assurance process to ensure

	conformity with namespacing and other VistA standards and conventions (see SAC). Server-side code is written in M, and, via Kernel, runs on all major M implementations regardless of vendor. Client-side code is written in Java or Borland Delphi and runs on the Microsoft operating system.
VPID	Veterans Administration Personal Identifier.
WAN	Wide Area Network.
Z st	All message type and trigger event codes beginning with Z are reserved for locally defined messages. No such codes will be defined within the HL7 Standard.

Table G-1: Glossary

NOTE: For a comprehensive list of commonly used infrastructure- and security-related terms and definitions, please visit the Security & Other Common Services Glossary Web page at the following Web address:

http://vista.med.va.gov/iss/glossary.asp

For a comprehensive list of acronyms, please visit the Security & Other Common Services Acronyms Web site at the following Web address:

http://vista/med/va/gov/iss/acronyms/index.asp

Appendix A: Exception Messages Processed by MPI/PD VistA

The following is a list of the MPI/PD Exception messages currently processed by MPI/PD VistA. Only the Primary View Reject (#234) exception message is displayed in the various actions selectable in the MPI/PD Exception Handling option. These entries are location in the CIRN HL7 EXCEPTION TYPE FILE (#991.11).

Type	Exception Message	Description
257	Potential Mismatch Found on MPI	This exception is logged when a potential mismatch has occurred when the site has identified a potential duplicate as VERIFIED, NOT A DUPLICATE
258	Potential Match Found not logged in PSIM	This exception is logged when a potential match has failed to be logged in PSIM's table.
234	Primary View Reject	VistA data was rejected on the MPI either because the Authority Score was not high enough, or it failed a business rule.

Table A-3: MPI/PD Exception Messages

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Appendix B: Why Doesn't a Patient Have a National ICN?

What Causes a Patient Record Not to Have a National ICN Assignment?

Answer:

- If the patient record was not included as part of the initial seeding process to the MPI. When the MPI was first initialized, patient records showing no activity in the last three fiscal years prior to the initialization were not enumerated with an ICN.
- If the patient record has not been edited or has not had clinical activity since approximately 1989, it would not have been sent up to the MPI for an ICN and CMOR assignment during the initial seeding of the index.
- If the patient record has not been processed into the system via any of the following PIMS options: Load/Edit, Register a Patient, or Electronic 10-10EZ Processing since the initial seeding of the index.
- Prior to this patch MPIF*1*33, the following criteria were not sent to the Master Patient Index (MPI) for national ICN assignment:
    - Patient records with last names beginning with ZZ
    - Patient records that have 5 leading zeros for the Social Security Number (SSN)
    - Patients records with last names beginning with "EEE"
    - Patients records with last names beginning with the word "Merging" (This applies to patients in the process of being merged via the Duplicate Record Merge software.)

  Patient records having met these criteria were either prevented from being sent to the MPI or were removed. Thus, these records currently exist in sites' PATIENT files (#2) without a national ICN assignment.
- If the patient record had been merged with another.

NOTE: VistA Patch MPIF*1*33 removed the Inactivate Patient from MPI [MPIF PAT INACT] option from the Master Patient Index Menu [MPIF VISTA MENU]. This option allowed users to inactivate patient records for any reason as long as they were not shared by another VistA system. Patient records having no activity since inactivation do not have national ICN assignments.

What Causes a Patient Record to Have Only a Local ICN Assignment?

Answer:

- If communication can't be established or is lost with the MPI before the ICN assignment process has completed.
- If the site edits an existing or adds a new patient using an option that doesn't directly interact with the MPI (e.g., VistA Lab or VA FileMan).

- If the patient is being added to the MPI (via the HL7 ADT-A28 message) as a placeholder until a National ICN is assigned. A local ICN is assigned to prevent processing the patient again on the MPI during that interim period.

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