

INSTITUTION FILE REDESIGN (IFR) SUPPLEMENT TO PATCH DESCRIPTION

Patch XU*8.0*206

June 2001

Revised: February 2007

Revision History

Documentation Revisions

The following table displays the revision history for this document. Revisions to the documentation are based on patches and new versions released to the field.

Date	Revision	Description	Author
06/01	1.0	Initial Institution File Redesign (IFR) software supplemental patch documentation creation.	• REDACTED
		Kernel Patch XU*8.0*206	
09/01	1.1	Corrected references to CPRS and OE/RR software versions with regard to Patch OR*3.0*209. Development Team Oa & Bay Pines, FL OIFOs Patch OR*3.0*209.	
02/16/05	2.0	Kernel V. 8.0 documentation reformatting/revision.	REDACTED
		Documentation content updated for the following Kernel Patches: XU*8.0*217, XU*8.0*218, XU*8.0*261, XU*8.0*287, XU*8.0*294, and XU*8.0*335.	
		Reviewed document and edited for the "Data Scrubbing" and the "PDF 508 Compliance" projects.	
		Data Scrubbing—Changed all patient/user TEST data to conform to HSD&D standards and conventions as indicated below:	
		The first three digits (prefix) of any Social Security Numbers (SSN) start with "000" or "666."	
		Patient or user names are formatted as follows: MMPDPATIENT,[N] or KMPDUSER,[N] respectively, where the N is a number written out and incremented with each new entry (e.g., KMPDPATIENT, ONE, KMPDPATIENT, TWO, etc.).	
		Other personal demographic- related data (e.g., addresses, phones, IP addresses, etc.) were also changed to be generic.	
		PDF 508 Compliance—The final PDF	

		document was recreated and now supports the minimum requirements to be 508 compliant (i.e., accessibility tags, language selection, alternate text for all images/icons, fully functional Web links, successfully passed Adobe Acrobat Quick Check).	
05/24/05	2.1	Updated file list for new MASTER FILE PARAMETERS file (#4.001) and added the HL7 Application Parameters, HL LOGICAL LINK entries, Protocols, and mail group for the new version of the Master File Server (XUMFX namespace) introduced with Kernel Patch XU*8.0*299.	Development Team Oakland, CA & Bay Pines, FL OIFOs
07/06/05	2.2	Updated references to the IMF address edit option to IMF edit.	Development Team Oakland, CA & Bay Pines, FL OIFOs
		Also, corrected missing table cross-reference.	
06/20/06	2.3	Corrected output array subscript in the F4^XUAF4 API from "STATION NUMER" to "STATION NUMBER. (Remedy #HD0000000147298) Updated document format to follow	Institution File Redesign Development Team Bay Pines, FL and Oakland, CA OIFOs: • REDACTED
		latest ISS Guidelines and SOP.	
02/21/07	3.0	 Updates: Updated document format to follow latest ISS Guidelines and SOP. Added major section header breaks. Also, moved chapters and appendices around throughout the document. Updated all Table of Contents (TOC), Table of Figures and Tables, and Index entries. Updated content for new/modified 	Institution File Redesign Development Team Bay Pines, FL and Oakland, CA OIFOs: • REDACTED
		options, routines, etc. with the release of Kernel Patch XU*8.0*416.	
		 Corrected spelling, grammar, and other content changes based on review by Kathleen Barnett. 	

Table i. Documentation revision history

Patch Revisions

For the current patch history related to the Kernel software, please refer to the Patch Module on FORUM.



NOTE: Kernel is the designated custodial software application for the Institution File Redesign (IFR)-related software. Kernel Patch XU*8.0*206 is designated as the primary Kernel patch for the IFR software and is referenced throughout this documentation.

Originally, the IFR software was released to the field as Kernel Patch XU*8.0*126 but was rereleased and is superseded by Kernel Patch XU*8.0*206. In addition, through the years subsequent IFR-related software patches have been released in order to continually maintain and update the IFR software. The documentation is continually updated to reflect the latest changes due to these patches and supersedes any previous documentation.

Revision History

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Acknowledgements

The Institution File Redesign (IFR) Project Team consists of the following Infrastructure & Security Services (ISS) personnel:

REDACTED

The IFR Project Team would like to thank the following sites/organizations for their assistance in reviewing and/or testing the IFR-related software (i.e., Kernel Patch XU*8.0*206) and documentation (listed alphabetically):

- Austin Automation Center (AAC)
- Battle Creek Veterans Affairs Medical Center (VAMC)
- Birmingham Office of Information Field Office (OIFO)
- Dayton, OH VAMC
- Independent Verification & Validation (IV&V)
- Montana Health Care System (HCS)
- VA North Texas HCS
- National Database Integration (NDBI)
- Application Structure and Integration Services (ASIS)
- Washington, D.C. VAMC
- **REF:** For a list of other supporting documents that were reviewed and contributors that were consulted throughout this project, please refer to "Appendix A—Reference Materials" in this manual.

Acknowledgements

Orientation

How to Use this Manual

Throughout this manual, advice and instruction are offered about the numerous tools and functionality that Institution File Redesign (IFR)-related software (Kernel V. 8.0) provides for overall Veterans Health Information Systems and Technology Architecture (VistA) management. For example, site parameters are discussed in various topics throughout this manual.

This supplemental documentation to the Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206) is organized into several major sections based on the following functional divisions, portions of which may also be included in the Kernel V. 8.0 documentation:

- 1. User Guide Information
 - A. Local Site IMF Administrator Duties
 - B. FORUM (Production) IMF Administrator Duties
- 2. Programmer Manual Information
- 3. Technical Manual Information

There are no special legal requirements involved in the use of IFR-related software.

This manual uses several methods to highlight different aspects of the material:

• 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
(i)	NOTE/REF: Used to inform the reader of general information including references to additional reading material.
Λ	CAUTION or DISCLAIMER: 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).
- 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,[N] and [Application Name]USER,[N] respectively, where "Application Name" is defined in the Approved Application Abbreviations document and "N" represents the first name as a number spelled out and incremented with each new entry. For example, in Kernel (KRN) test patient and user names would be documented as follows: KRNPATIENT,ONE; KRNPATIENT,TWO; KRNPATIENT,THREE; etc.

- Sample HL7 messages, "snapshots" of computer online displays (i.e., roll-and-scroll screen or character-based screen captures/dialogues) and computer source code, if any, are shown in a *non-*proportional font and enclosed within a box.
 - User's responses to online prompts will be boldface.
 - References to "<Enter>" within these snapshots indicate that the user should press the Enter key on the keyboard. Other special keys are represented within angle brackets (<>). For example, pressing the PF1 key can be represented as pressing <PF1>.
 - Author's comments, if any, are displayed in italics or as "callout" boxes.
 - Ð

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

- This manual refers in many places to the M programming language. Under the 1995 American National Standards Institute (ANSI) standard, M is the primary name of the MUMPS programming language, and M will be considered an alternate name. This manual uses the name M.
- Descriptions of direct mode utilities are prefaced with the standard M ">" prompt to emphasize that the call is to be used *only in direct mode*. They also include the M command used to invoke the utility. The following is an example:

>D ^XUP

• All uppercase is reserved for the representation of M code, variable names, or the formal name of options, field/file names, and security keys (e.g., the XUPROGMODE key).

How to Obtain Technical Information Online

Exported file, routine, and global documentation can be generated through the use of Kernel, MailMan, and VA FileMan utilities.



NOTE: Methods of obtaining specific technical information online will be indicated where applicable under the appropriate topic.

Help at Prompts

VistA M Server-based software provides online help and commonly used system default prompts. Users are encouraged to enter question marks at any response prompt. At the end of the help display, you are immediately returned to the point from which you started. This is an easy way to learn about any aspect of the software.

Obtaining Data Dictionary Listings

Technical information about VistA M Server-based files and the fields in files is stored in data dictionaries (DD). You can use the List File Attributes option on the Data Dictionary Utilities submenu in VA FileMan to print formatted data dictionaries.



REF: For details about obtaining data dictionaries and about the formats available, please refer to the "List File Attributes" chapter in the "File Management" topic of the *VA FileMan Advanced User Manual*.

Assumptions About the Reader

This manual is written with the assumption that the reader is familiar with the following:

- VistA computing environment:
 - Kernel—VistA M Server software
 - VA FileMan data structures and terminology—VistA M Server software
- Microsoft Windows environment
- M programming language

This manual provides an overall explanation of the use, maintenance, and implementation of the Institution File Redesign (IFR)-related software. However, no attempt is made to explain how the overall VistA programming system is integrated and maintained. Such methods and procedures are documented elsewhere. We suggest you look at the various VA home pages on the World Wide Web (WWW) and VA Intranet for a general orientation to VistA. For example, go to the Veterans Health Administration (VHA) Office of Information (OI) Health Systems Design & Development (HSD&D) Home Page at the following Web address:

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

Reference Materials

Readers who wish to learn more about Kernel should consult the following:

- Kernel Release Notes
- Kernel Installation Guide
- Kernel Technical Manual
- Kernel Systems Management Guide
- Kernel Developer's Guide
- Kernel Security Tools Manual
- The following Web pages:
 - Institution File Redesign (IFR) Home Page:

http://vista.med.va.gov/kernel/index.asp#ifr

Kernel Home Page:

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

These sites contain other information and provide links to additional documentation.

VistA documentation is made available online in Microsoft Word format and in Adobe Acrobat Portable Document Format (PDF). The PDF 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/



REF: For more information on the use of the Adobe Acrobat Reader, please refer to the "Adobe Acrobat Quick Guide" at the following Web address:

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

VistA documentation can be downloaded from the Health Systems Design and Development (HSD&D) VistA Documentation Library (VDL) Web site:

http://www.va.gov/vdl/

VistA documentation and software can also be downloaded from the Enterprise VistA Support (EVS) anonymous directories:

Albany OIFO REDACTED
 Hines OIFO REDACTED
 Salt Lake City OIFO REDACTED
 Preferred Method REDACTED

This method transmits the files from the first available FTP server.



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 this VA Intranet Service.

I. User Guide

This is the User Guide section of this supplemental documentation for the Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206). It details the user-related IFR documentation (e.g., overview of the IFR, Local and FORUM Administrator duties, management of IFR-related software, etc.).

User Guide

1. Introduction

This supplemental documentation is intended for use in conjunction with the Institution File Redesign (IFR)-related software patches (i.e., Kernel Patch XU*8.0*206). It outlines the details of the work involved in the IFR software and gives guidelines for how the generic APIs can be used to standardize the collection and storage of Institution data across Veterans Health Administration (VHA).

The intended audience for this documentation is Veterans Health Information Systems and Technology Architecture (VistA) sites' Information Resource Management (IRM) and the Automated Data Processing Application Coordinators (ADPACS). However, it can also be helpful to the Master Patient Index/Patient Demographics (MPI/PD) Team, the Messaging & Interface Services (M&IS) Team, others in VHA Office of Information (OI) Health Systems Design & Development (HSD&D), Enterprise VistA Support (EVS), the OI EVS National Data Base Integration (NDBI) Team, the Program Office, and Application Structure and Integration Services (ASIS).

Master Files—What is the Problem?

In an open-architecture healthcare environment, there often exists a set of common reference files used by one or more applications. These files are called "master files." The INSTITUTION (#4) and FACILITY TYPE (#4.1) files are two examples of Veterans Health Information Systems and Technology Architecture (VistA) master files. With the advent of VA-wide data exchange initiatives, such as Master Patient Index/Patient Demographics (MPI/PD), the need to maintain reliable and accurate data within these master files across all Veterans Health Administration (VHA) sites has become more apparent.

Currently, the VHA does *not* automate updates and synchronization of *national* entries in standard master files utilized VHA-wide. Each individual VHA site is responsible for updating and maintaining the INSTITUTION and FACILITY TYPE master files located at their site. Through time and due to many unforeseen circumstances, these master files no longer contain accurate, synchronized *national* data. Thus, there is a need to provide a mechanism to automatically maintain reliable, accurate, and synchronized *national* data within the INSTITUTION and FACILITY TYPE master files across all sites VHA-wide.

Purpose

The Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206) provides the mechanism to standardize *national* entries in VistA's INSTITUTION (#4) and FACILITY TYPE (#4.1) master files and automatically update and maintain synchronization of these files at all sites VHA-wide. It also provides the baseline software to maintain other master files in the future. Thus, Kernel Patch XU*8.0*206 ensures that the data in the INSTITUTION and the FACILITY TYPE master files is reliable, accurate, and consistent VHA-wide. This allows sites to easily establish data sharing relationships without the overhead of researching each other's INSTITUTION and FACILITY TYPE file's data. This in turn ensures that future CIO initiatives involving multi-site data exchange will operate more effectively and efficiently.

In addition, Kernel Patch XU*8.0*206 does *not* alter the currently existing procedures for the following:

- Requesting a New Station Number—The Information Management Service (045A4) will continue to approve the official Station Numbers. Non-VA Institutions *must* receive a Station Number to be included in the Institution Master File; VISN directors will continue to request new Station Numbers from the Chief Network Officer (10N).
- Austin Automation Center (AAC) Coordination Requirements—The coordination requirements currently placed on sites by the Austin Automation Center (AAC) are *not* affected by this patch. The Institution Master File (IMF) on FORUM will immediately be updated upon notification from the Information Management Service (045A4). That updated data will then be immediately transmitted to all local INSTITUTION files (#4) VHA-wide via the Master File Server (MFS). This patch does *not* require any additional coordination with the AAC. The same, current procedures will be followed when the AAC has *not yet* updated its tables to include new Station Numbers stored in the INSTITUTION file (#4).
- National Data Base Integration (NDBI) Procedures—NDBI will create new integrated sites *after* a new Station Number has been added to the Institution Master File (IMF) on FORUM and that information has been transmitted VHA-wide. Subsequent procedures followed by NDBI will remain the same.

Detailed Solution

Infrastructure & Security Services (ISS) released Kernel Patches XU*8.0*206, 209, and other subsequent patches to automate the update and synchronization of the INSTITUTION (#4) and FACILITY TYPE (#4.1) master files VHA-wide.

IFR Software-related Kernel Patches—Components

Kernel Patch XU*8.0*206

Kernel Patch XU*8.0*206 establishes the following components, which are described in greater detail in the topics that follow:

- Institution Master File (IMF)—A coordinated and synchronized INSTITUTION file (#4). The INSTITUTION file located on FORUM serves as the IMF that originates the data entries flagged as "National" and approved by Information Management Service (045A4) that are transmitted to and synchronized with each local site's INSTITUTION file VHA-wide.
 - NOTE: Local-based Institution data is not stored in the INSTITUTION file located on FORUM.
- Facility Type Master File (FMF)—A coordinated and synchronized FACILITY TYPE file (#4.1). The FACILITY TYPE file located on FORUM serves as the FMF that originates the data entries flagged as "National" and approved by Information Management Service (045A4) that are transmitted to and synchronized with each local site's FACILITY TYPE file VHA-wide.
 - **1**

NOTE: Local-based Facility Type data is *not* stored in the FACILITY TYPE file (#4.1) located on FORUM.

- Master File Server (MFS)—A server mechanism that does the following:
 - Broadcasts updated *national* entries in the master files on FORUM (e.g., IMF) for update and synchronization VHA-wide.
 - Allows local sites to query the INSTITUTION (#4) and FACILITY TYPE (#4.1) master files on FORUM for cleanup of the local site's master files (see the following bulleted item).

One or more FORUM Institution Master File Administrators will be assigned to maintain and update the INSTITUTION (#4) and FACILITY TYPE (#4.1) master files on FORUM for propagation VHA-wide.

- Cleanup Utilities—Utilities to help sites "clean up" their local INSTITUTION file (#4) and FACILITY TYPE file (#4.1). This "cleanup" includes resolution of duplicate Station Numbers and a merge of *national* data from the Institution Master File (IMF) located on FORUM with the data in a local site's INSTITUTION file (#4). In the background, it also merges *national* data from the Facility Type Master File (IMF) located on FORUM with the data in a local site's FACILITY TYPE file.
 - **REF:** For more specific information on the Cleanup Utilities, please refer to the "Institution File Cleanup Process" topic in Chapter 2, "Local Site IMF Administrator Duties," in this manual.
- **Historical Institution Data**—Kernel Patch XUY*8.0*206 adds the HISTORY Multiple field (#999) to the INSTITUTION file (#4). It contains historical data with effective dates regarding *national* Institution Station Number and Name changes.
 - **REF:** For more specific information on the historical data, please refer to the "HISTORY Multiple Field (#999) in the INSTITUTION File (#4)" topic in Chapter 4, "Data Dictionary Modifications," in this manual.
- Application Program Interfaces (APIs)—Provide entry points for programmers in order to:
 - Customize the Master File Server (MFS).
 - Return time-sensitive (historical) information from the INSTITUTION file (#4).
 - **REF:** For more information on the APIs, please refer to Chapter 5, "Application Program Interfaces (APIs)," in this manual.

FORUM Institution Master File (IMF)

Kernel Patch XU*8.0*206 establishes the INSTITUTION file (#4) located on FORUM as the Institution Master File (IMF). The IMF on FORUM (or "Gold" file) provides the following:

• Storage of all *national* Station Numbers approved by Information Management Service (045A4), regardless of their current status (e.g., active, inactive, etc.). The software does *not* allow duplicate Station Numbers. Sites *cannot* edit the STATION NUMBER field nor can they edit certain other fields of a *national* entry in their local INSTITUTION file (#4); the software locks them out.



REF: For more information on editing local or National entries in the INSTITUTION file, please refer to the "Local Sites Step-By-Step Procedures—Institution File Data Review/Check" topic in Chapter 2,"Local Site IMF Administrator Duties," in this manual.

- Storage of new *national* Health Care facility names.
- Standardized Institution names VHA-wide for IMF entries.

Per VHA DIRECTIVE 97-058, which provides guidance for the assignment of Station Number suffix identifiers for outpatient clinic facilities, all outpatient clinic facilities will be given a Station Number suffix identifier. Requests to add or delete an outpatient clinic are submitted to the Director, Information Management Service (045A4) through the Chief Network Office (10N) at VHA Headquarters. The Network Management Support Office (10NA) notifies the respective VISN of approved Station Number suffix identifier.

VHA Health Systems Design & Development's Infrastructure & Security Services (ISS) Team was added to the Information Management Service distribution list (i.e., 045A4). Members of the Enterprise VistA Support (EVS) serve as the FORUM Institution Master File (IMF) Administrators. If a site has a request or requires an update to the IMF, they should log a Remedy ticket. The Remedy category is Application-VistA; the Remedy Type is Institution File Redesign. Also, the IMF Administrators can be contacted on FORUM via the following e-mail group: REDACTED

The FORUM IMF Administrators are responsible for updating the Institution Master File (i.e., the INSTITUTION file [#4] located on FORUM) with *national* Station Number, Name, and other *national* Institution data changes.



REF: The duties of the FORUM Institution Master File Administrators are explained in greater detail in Chapter 3, "FORUM (Production) IMF Administrator Duties," in this manual.

FORUM Facility Type Master File (FMF)

Kernel Patch XU*8.0*206 establishes the FACILITY TYPE file (#4.1) located on FORUM as the Facility Type Master File (FMF). The FMF on FORUM provides the following:

- Storage of all *national* Facility Types approved by Information Management Service (045A4).
- Storage of new *national* Health Care Facility Types.
- Standardized Facility Types VHA-wide for FMF entries.

VHA Health Systems Design & Development's Infrastructure & Security Services (ISS) Team was added to the Information Management Service distribution list (i.e., 045A4). Members of the Enterprise VistA Support (EVS) serve as the FORUM Institution Master File (IMF) Administrators. If a site has a request or requires an update to the IMF, they should log a Remedy ticket. The Remedy category is Application-VistA; the Remedy Type is Institution File Redesign. Also, the IMF Administrators can be contacted on FORUM via the following e-mail group: REDACTED.

The FORUM IMF Administrators are responsible for updating the Facility Type Master File (i.e., the FACILITY TYPE file [#4.1] located on FORUM) with *national* Facility Type data changes.



REF: The duties of the FORUM Institution Master File Administrators are explained in greater detail in Chapter 3, "FORUM (Production) IMF Administrator Duties," in this manual.

Master File Server (MFS)

The INSTITUTION (#4) and FACILITY TYPE (#4.1) files, as well as other master files, are integral components of VistA and are referenced by numerous applications. Once a master file has been standardized VHA-wide, measures *must* be taken to maintain uniformity and synchronicity. The current method of update notifications cannot keep up with today's messaging requirements. Thus, in order to maintain uniformity and synchronicity of master files VHA-wide, Kernel Patch XU*8.0*206 creates a Master File Server (MFS) that specifically processes the INSTITUTION and FACILITY TYPE master files. As of Kernel Patch XU*8.0*299, the Master File Server (MFS) mechanism was extended to support multiple standard files. Kernel Patch XU*8.0*299 also introduced the MASTER FILE PARAMETERS file (#4.001) and XUMF ERROR mail group.

- **REF:** For more information on the MASTER FILE PARAMETERS file (#4.001), please refer to the "Files" topic in Chapter 6, "Implementation and Maintenance," in this manual.
- NOTE: The need to standardize other master files has also been identified. Although the Standard Data Service (SDS) Team will address those files directly, the server mechanism interface implemented via the IFR software (i.e., Kernel Patch XU*8.0*206) was designed to support additional standard files, which will cut development time for SDS significantly.

Once the Cleanup of the local site's INSTITUTION file (#4) has been performed and the Institution Master File data from FORUM is merged with the local INSTITUTION file (#4), further updates to the INSTITUTION file (#4) are handled automatically by the Master File Server mechanism.



REF: For more information on the Cleanup of the local site's INSTITUTION file (#4), please refer to the "Institution File Cleanup Process—Initial" topic in Chapter 2,"Local Site IMF Administrator Duties," in this manual.

The FORUM Institution Master File Administrators receives update notifications (e.g., new CBOC Station Numbers) directly from the Information Management Service via the 045A4 distribution list.

The FORUM Institution Master File Administrators add/edit the INSTITUTION file (#4) entries on FORUM (i.e., IMF). This results in the building of an HL7 message containing the updates, which are sent to all VistA sites. The message is processed automatically at the sites, updating the local INSTITUTION file with the new/updated entries from the FORUM IMF.



REF: For more information on the duties of the FORUM Institution Master File Administrators, please refer to Chapter 3, "FORUM (Production) IMF Administrator Duties," in this manual.

An HL7 (Messaging & Interface Services [M&IS]) interface specification for interaction with the Master File Server (MFS) has been defined. VistA's VA MailMan and HL7 (Messaging & Interface Services

[M&IS]) software, utilizing bi-directional data transmission of HL7 messages over TCP/IP, provides support for communication between the FORUM (server) and VHA site (client) applications. The Master File Server (MFS) uses HL7 (Messaging & Interface Services [M&IS]) software to deliver updates from the master files on FORUM to the sites' local files.

The MFS and VistA's HL7 software provide the following functionality, which is described in greater detail in the topics that follow:

- **Broadcast Updates**—Implements a server mechanism to broadcast FORUM's Institution Master File (IMF) updates VHA-wide.
- **Handle Update Message**—Implements a message handler to update the local site's INSTITUTION file (#4).
- **Query Server**—Provides functionality to query FORUM's Institution Master File and Facility Type Master File.
- Handle Query Response—Provides functionality to handle query responses.
- Track Station Number Changes—Tracks Station Number changes in the INSTITUTION file (#4) via bulletins/e-mail messages and the VistA HL7 software.
- **Application Program Interfaces (APIs)**—Provides Application Program Interfaces (APIs) to set up required parameter entries and to build and send HL7 messages.

Broadcast Updates

The Master File Server (MFS) on FORUM implements a server mechanism to broadcast FORUM's Institution Master File (IMF) updates VHA-wide.

- Updates to the Institution Master File (IMF) trigger an HL7 unsolicited update event message.
- The Master File Notification (MFN) message is broadcast VHA-wide.

Handle Update Message

The HL7 (Messaging & Interface Services [M&IS]) software at the VistA site (client), upon receipt of an HL7 Master File message, invokes a Handler routine to do the following:

- Process the Master File Notification (MFN) message type sent by the Master File Server (MFS) on FORUM.
- Add/Update the local site's INSTITUTION file (#4) entries with the *national* entries transmitted from the FORUM master files.

Query Server

The MFS provides functionality to query FORUM's Institution Master File (IMF) and Facility Type Master File (FMF). Specifically, the Master File Server Query process:

- MFS at the site (client)—Builds Master File Query (MFQ) messages to send to FORUM (server).
- MFS on FORUM (server)—Handles Master File Query (MFQ) message types sent by the site (client).
- MFS on FORUM (server)—Sends an appropriate Master File Response (MFR) message in return back to the site (client).

Handle Query Response

The HL7 (Messaging & Interface Services [M&IS]) software at the VistA site (client) invokes a Handler routine to:

- Process the Master File Response (MFR) message from FORUM (server). The query definition in the HL7 QRD segment, based on parameters passed to a Master File Server interface, specifies the method of processing.
- Add/Update the INSTITUTION (#4) and FACILITY TYPE (#4.1) file entries or store the tables in a global array.

Track Station Number Changes

The INSTITUTION file (#4) Station Number changes are tracked.

- Tracking occurs via the existing functionality of the HL7 (Messaging & Interface Services [M&IS]) software (i.e., HL7 MESSAGE TEXT file [#772]).
- Kernel Patch XU*8.0*206 establishes the XUMF INSTITUTION mail group). This mail group receives bulletins regarding updates to the INSTITUTION file (#4). Sites are notified via a VistA MailMan bulletin when their local INSTITUTION file has been updated with *national* entries from the Institution Master File (IMF) on FORUM via the Master File Server (MFS).
- If an error occurs, a bulletin is sent to the FORUM Institution Master File Administrators.

MFS Application Program Interfaces (APIs)

Kernel Patch XU*8.0*206 provides APIs that set up required parameter entries and build and send HL7 messages:

• Interface to set up parameters used by the interface that builds and sends the message and the HL7 Master File Message Handler routine:

MAIN^XUMFP(IFN,IEN,TYPE,PARAM,ERROR)

• Interface to build and send the HL7 message:

MAIN^XUMFI(IFN,IEN,TYPE,PARAM,ERROR)



REF: For more information on the APIs, please refer to Chapter 5, "Application Program Interfaces (APIs)," in this manual.

Institution File Enhancements

Kernel Patch XU*8.0*206 incorporates modifications to the INSTITUTION file (#4) Data Dictionary and provides Application Program Interfaces (APIs).

Institution File Data Dictionary Modifications

Modifications to the INSTITUTION file (#4) Data Dictionary provide the following functionality:

- Prevents editing of *national* data in the INSTITUTION file (#4) via an Input Transform.
- Provides an Inactive Facility Flag identifier with an Effective Date.
- Requires all *national* entries in the INSTITUTION file (#4) be flagged as "National."
- Enhances the INSTITUTION file (#4) by adding a HISTORY Multiple field (#999) to record integrations (realignments), merge, deactivation, and Name updates. Creates a HISTORY Multiple field (#999) to record the following date-sensitive information:
 - Integrations (Realignments)
 - Name Changes/Updates
 - Deactivations
 - Activations

Institution File Application Program Interfaces (APIs)

Due to site integrations, Name changes, Station Number deactivations/activations, legacy Station Numbers, and new facilities, a need to return Institution time-sensitive (historical) information has been identified.

- Return historical time-sensitive information.
- Return realignment and merge pointers.
- **REF:** For more information on the APIs, please refer to Chapter 5, "Application Program Interfaces (APIs)," in this manual.

Kernel Patch XU*8.0*217

Kernel Patch XU*8.0*217 modified the INSTITUTION file (#4) data dictionary to provide the following functionality:

- Added the ST. ADDR. 1 (MAILING) field (#4.01) to the INSTITUTION file (#4). It is the first line of the street address (mailing) of the facility.
- Added the ST. ADDR. 2 (MAILING) field (#4.02) to the INSTITUTION file (#4). It is the second line of the street address (mailing) of the facility.
- Added the CITY (MAILING) field (#4.03) to the INSTITUTION file (#4). It is the city (mailing) of the facility.
- Added the STATE (MAILING) field (#4.04) to the INSTITUTION file (#4). It is the state (mailing) of the facility.
- Added the ZIP (MAILING) field (#4.05) to the INSTITUTION file (#4). It is the ZIP/Postal Code (mailing) of the facility.
- Modified the STREET ADDR. 1 field (#1.01) in the INSTITUTION file (#4). It is the first line of the street address (physical) in the facility.
- Modified the STREET ADDR. 2 field (#1.02) in the INSTITUTION file (#4). It is the second line of the street address (physical) in the facility.
- Modified the CITY field (#1.03) in the INSTITUTION file (#4). It is the city (physical) of the facility.
- Modified the STATE field (#.02) in the INSTITUTION file (#4). It is the state (physical) of the facility.
- Modified the ZIP field (#1.04) in the INSTITUTION file (#4). It is the ZIP/Postal Code (physical) of the facility.

Kernel Patch XU*8.0*287

Kernel Patch XU*8.0*287 modified the NEW PERSON file (#200) data dictionary to provide the following functionality:

- The Input Transform of the DIVISION field (#.01) of the DIVISION Multiple field (#16) of the NEW PERSON file (#200) was modified to prevent users in the NEW PERSON file (#200) from being associated with an inactive/non-treating facility.
- Holders of the XUMGR security key can override the Input Transform and assign other facility types (other than medical) as "divisions" to a User.

Kernel Patch XU*8.0*299

Kernel Patch XU*8.0*299 modified or added the following components:

- Modified the Master File Server (MFS) mechanism to support multiple standard files.
- Added the MASTER FILE PARAMETERS file (#4.001) in the ^DIC(4.001, global.
 - 0

REF: For more information on the MASTER FILE PARAMETERS file (#4.001), please refer to the "Files" topic in Chapter 6, "Implementation and Maintenance," in this manual.

- Added the XUMF ERROR mail groups:.
 - 1

REF: For more information on the mail groups exported with the IFR-related software, please refer to the "Mail Groups" topic Chapter 7, "Software Product Security," in this manual.

Kernel Patch XU*8.0*335

Kernel Patch XU*8.0*335 establishes the following components, which are described in greater detail in the topics that follow:

- Facility Type File Data Dictionary Modifications
- Institution File Data Dictionary Modifications

Facility Type File Data Dictionary Modifications

Kernel Patch XU*8.0*335 added a new STATUS field (#3) to the FACILITY TYPE file (#4.1).

Institution File Data Dictionary Modifications

Kernel Patch XU*8.0*335 added an Input Transform to the FACILITY TYPE field (#13) in the INSTITUTION file (#4) to prevent the selection of non-standard facility types from "national" INSTITUTION file (#4) entries.

Kernel Patch XU*8.0*416

Kernel Patch XU*8.0*416 modified or added the following components:

- Loaded National Provider Identifier (NPI) values into the INSTITUTION file (#4) during the post install.
- Added the Load Institution NPI values option [XUMF LOAD NPI] to FORUM. This option is located on the Kernel Management Menu [XUKERNEL]. This option is to be used only in the case the NPI values fail to load in the post install or if it should become necessary to reload the NPI values (e.g., NPI values become corrupt or the data otherwise needs to be refreshed).

This option is used to edit institution data, including NPI and Taxonomy codes, selectable by coding system (e.g., NPI, Department of Defense [DOD], or Clinical Laboratory Improvement Amendments [CLIA]) and Identifier pair (for beta testing made target site, for Health Level seven [HL7] unsolicited update message, selectable rather than publish nationally).

- Executed an HL7 query to the Institution Master File (IMF) on FORUM using the Master File Server (MFS) mechanism. The subsequent response message automatically updated the local INSTITUTION file (#4) with the new values. In the event the post install failed, a MailMan message would be sent to notify the installer of the patch and the XUMF NPI mail groups: that the NPI values did not update correctly. This mail group has a remote member "REDACTED" Users can optionally add members to this mail group after installation of this patch.
- Modified the MFS Institution handler to:
 - Identify a record by alternate coding system (other than station number).
 - Handle NPI and Taxonomy code updates as special case (due to constraints and special processing required).
 - Update coding system and ID in Identifier multiple when appropriate.
- Corrected the \$\$ADDNPI^XUSNPI API.

Maintaining the Local IMF—Step-By-Step Procedures

For detailed step-by-step procedures in maintaining/troubleshooting a sites' local Institution Master File (IMF), FORUM's production IMF, and Bay Pines' Test IMF, please refer to the following chapters:

- Local Site IMF Administrator Duties
- FORUM (Production) IMF Administrator Duties

2. Local Site IMF Administrator Duties

Introduction

Kernel Patches XU*8.0*209 (i.e., original IFR patch and initial cleanup) and XU*8.0*335 (i.e., Healthe Vet cleanup) require that sites assign one or more Local Site Institution Master File (IMF) Administrators to clean up, maintain, and monitor the master files located at a site. These administrators are most likely members of the site's Information Resource Management (IRM) Team.

The following duties are the responsibility of the Local Site Institution Master File Administrators of the INSTITUTION (#4) and FACILITY TYPE (#4.1) master files located at a site:

- Perform a Review/Check of the INSTITUTION File Data Prior to the Cleanup.
- Perform INSTITUTION File Cleanup (includes a background cleanup of the FACILITY TYPE file as well).
- Add/Modify Local Institution Data.
- Maintenance & Troubleshooting Master Files.

This section provides the step-by-step procedures and general information describing the day-to-day duties and maintenance requirements of the master files at a local site, as performed by the Local Site Institution Master File Administrators.

Institution File Data Review/Check

Sites should review/check their Institution and Institution-related data in the FORUM Institution Master File (IMF) prior to performing the cleanup at their site.



REF: For more information on the Institution Master File Cleanup Process, please refer to the "Institution File Cleanup Process" topic that follows in this section.

This review helps make the data in the FORUM IMF more accurate for your Parent Facility and all associated facilities. The primary goals of these data checks include the verification of the following:

- All Station Numbers associated with your Parent Facility are included.
- All data for your Parent Facility and its associated facilities are correct (e.g., Station Number, State, Type, and if appropriate, an Inactive Facility Flag with an Effective Date).
- No invalid Station Numbers are associated with your Parent Facility.
- All legacy facility data is correct (e.g., data contains an Inactive Facility Flag with an Effective Date).
- (Recommended) All Institutions of Type Veterans Affairs Medical Center (VAMC) and/or Medical and Regional Office Center (M&ROC) have unique naming conventions in order to ease data entry.

Kernel Patch XU*8.0*206—Initial Cleanup Patch

The following data fields need to be checked in the FORUM INSTITUTION file (#4). They are the primary focus of Kernel Patch XU*8.0*206 and should be checked for accuracy:

- NAME (#.01)—This name should be a unique name for VAMC facilities.
- STATE (#.02)—Write Identifier
- STATUS (#11)
- FACILITY TYPE (#13)—Write Identifier
- ASSOCIATIONS Multiple (#14)—The valid Association Types are:
 - VISN
 - Primary Facility (Parent Facility) Station Number



NOTE: Kernel Patch XU*8.0*294 prevents the adding of a VISN or PARENT FACILITY association to an Institution entry that does not have a corresponding PARENT OF ASSOCIATION.

Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup) pointed all child facilities to their administrative parent. The parent, or primary facility, points to its parent (HCS or VISN). The HCS entries point to a VISN entry. All parent relationships eventually resolve to a VISN.

- STATION NUMBER (#99)—Write Identifier
- OFFICIAL VA NAME (#100)
- INACTIVE FACILITY FLAG (#101)—Write Identifier (used in conjunction with the EFFECTIVE DATE under the HISTORY Multiple field [#999])
- HISTORY Multiple (#999)
 - EFFECTIVE DATE (#.01)
 - REALIGNED TO (#.05)
 - REALIGNED FROM (#.06)



NOTE: The Master File Server (MFS) uses the HL7 protocol for messaging. The above fields are currently included in the HL7 Interface Specification for the INSTITUTION file (#4). The IFR Project Team is not addressing any other fields in the HL7 Interface Specification at this time. However, the team will address any data issues related to those additional fields, if needed, at a future date.

Kernel Patch XU*8.0*335—Health eVet Cleanup Patch

The following data fields need to be checked in the local INSTITUTION file (#4). They are the primary focus of Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup) and should be checked for accuracy (listed in field number order):

- NAME (#.01)
- STATE (#.02)
- Address Information:
 - ST. ADDR. 1 (MAILING) field (#4.01)
 - ST. ADDR. 2 (MAILING) field (#4.02)
 - CITY (MAILING) field (#4.03)
 - STATE (MAILING) field (#4.04)
 - ZIP (MAILING) field (#4.05)
 - STREET ADDR. 1 field (#1.01)
 - STREET ADDR. 2 field (#1.02)
 - CITY field (#1.03)
 - STATE field (#.02)
 - ZIP field (#1.04)
- FACILITY TYPE (#13)
- ASSOCIATIONS Multiple (#14)—VISN association type
 - PARENT OF ASSOCIATION (#1)
- AGENCY CODE (#95)
- OFFICIAL VA NAME (#100)
- INACTIVE FACILITY FLAG (#101)

Local Sites Step-By-Step Procedures—Institution File Data Review/Check

The following steps are recommended:

- 1. Log on to FORUM. This is the host (production) Institution Master File (IMF) server.
- 2. Select the DBA menu [DBA], as shown in Figure 2-1:

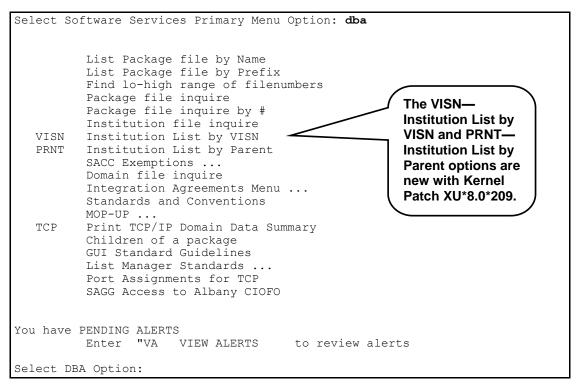


Figure 2-1. DBA Menu on FORUM

The three options that are used to assist sites in reviewing/checking their data in the FORUM IMF are:

- Institution file inquire [DBA INSTITUTION INQUIRE]
- VISN—Institution List by Vision [XUMF IMF BY VISN]
- PRNT—Institution List by Parent [XUMF IMF BY PRNT]

These options are described in greater detail in the steps that follow.

- **3.** Verify Facility Station Numbers and Naming Conventions
 - **a.** From the DBA menu on FORUM, select the Institution file inquire option [DBA INSTITUTION INQUIRE]. This option (Figure 2-2) displays all the facilities associated with the Institution name or Station Number entered.

```
Select DBA Option: insti

1    Institution file inquire
2    Institution List by Parent
3    Institution List by VISN
CHOOSE 1-31: 1 <Enter> Institution file inquire
Select INSTITUTION NAME:
```

Figure 2-2. Using the Institution file inquire option to verify facility naming conventions

b. Enter the Primary Facility three-digit STATION NUMBER (#99) after the "Select INSTITUTION NAME:" prompt. This produces a list of all associated facilities as stored in the FORUM IMF, as shown in Figure 2-3:

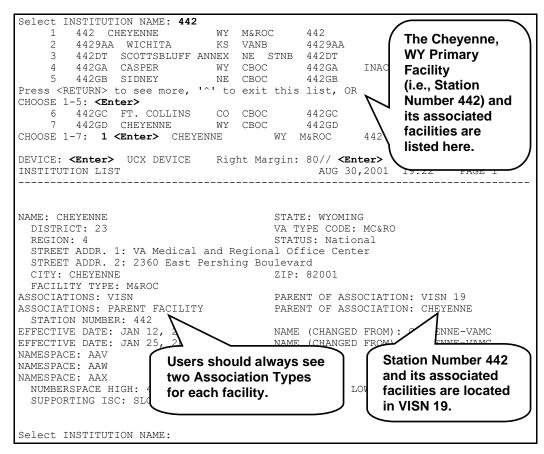


Figure 2-3. Sample list of a Primary Facility with its associated Institutions in the FORUM INSTITUTION File (#4)



NOTE: The Primary Facility Station Number consists of only three digits and no suffix.

- c. Verify that the list of associated facilities displayed is accurate for your Primary Facility:
 - Are all of the Station Numbers associated with your Primary Facility listed? If not, notate those Station Numbers that are missing.
 - Are there any Station Numbers listed that are not associated with your Primary Facility? If so, notate those Station Numbers that are incorrectly associated with your Primary Facility.
- **d.** Verify that the VAMC/M&ROC names displayed are unique when compared to the associated facilities. Notate any Station Numbers that are not unique.

To speed data entry (avoid having to choose from a list), it is best if VAMC/M&ROC Institution names are unique. For example, prior to any updates to the FORUM IMF, the North Chicago facilities were named as follows:

```
Select INSTITUTION NAME: north ch
    1
                                          556BU
        NORTH CHICAGO
                           IL D
       NORTH CHICAGO
                            IL VANB
                                          5569AA
        NORTH CHICAGO
                                PRRTP
                                          556PA
                             TT.
       NORTH CHICAGO
                             IL VAMC
                                          556
CHOOSE 1-4: ^
Select INSTITUTION NAME:
```

Figure 2-4. North Chicago facilities naming convention before data updated in the FORUM IMF

In the example in Figure 2-4, the VAMC Primary Facility name is *not* unique. It has the same name as its associated facilities (i.e., "NORTH CHICAGO").

After reviewing the FORUM IMF data, Station Number 556's associated facilities' names were changed from "NORTH CHICAGO" to "NORTH CHGO." This made the VAMC Primary Facility name unique from the associated facilities' names, as shown in Figure 2-5:

```
Select INSTITUTION NAME: north ch
    1
        NORTH CHGO
                              IL
                                           556BU
        NORTH CHGO
                             IL VANB
                                           5569AA
       NORTH CHGO
                             IL PRRTP
                                           556PA
    4 NORTH CHICAGO
                              IL VAMC
                                            556
CHOOSE 1-4: ^
Select INSTITUTION NAME:
```

Figure 2-5. North Chicago facilities naming conventions after data updated in the FORUM IMF

The example shown in Figure 2-6 further illustrates names in the FORUM IMF that are *not* unique and should be notated:

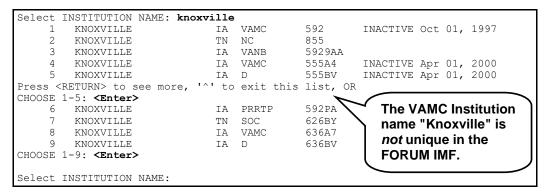


Figure 2-6. Sample list of Institutions in the FORUM INSTITUTION File (#4) that are not uniquely named

e. Verify that any VAMC/M&ROC that is the Primary Facility Health Care System (HCS) name contains the letters "HCS." If not, notate the Station Numbers. For example:

```
Select INSTITUTION NAME: 663

1 663 PUGET SOUND HCS WA VAMC 663

2 6639AA SEATTLE WA VANB 6639AA

3 6639AF SEATTLE WA STNB 6639AF

4 6639AG SEATTLE WA STNB 6639AG

5 663A4 AMERICAN LAKE WA VAMC 663A4

Press <RETURN> to see more, '^' to exit this list, OR

CHOOSE 1-5: ^

Select INSTITUTION NAME:
```

Figure 2-7. Sample of a Health Care System (HCS) Naming Convention

f. Print out a copy of the MEDICAL CENTER DIVISION file (#40.8) at your site. This printout is used to verify data in the FORUM IMF (See Step #3g). For example, use VA FileMan to display/print the entries in File #40.8, as shown in Figure 2-8:

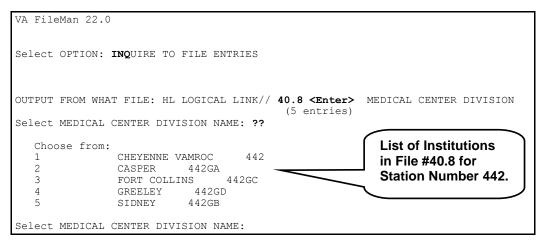


Figure 2-8. Sample list of Institutions in the MEDICAL CENTER DIVISION file (#40.8)

- g. Compare each facility name in the MEDICAL CENTER DIVISION file (#40.8):
 - Verify that all the facilities in File #40.8 are listed in the IMF. If not, notate the missing Station Numbers.
 - **REF:** For an example of missing Station Numbers, please refer to Step #6c.
 - Compare the names of all the facilities in File #40.8 against the names listed in the FORUM IMF. If the names don't match and should, notate those Station Numbers where name modifications are required.

For example, when you compare the entries displayed in Figure 2-8 with the entries in Figure 2-3, you see that Station Number 442GC's name doesn't match. It is "FORT COLLINS" in File #40.8 and "FT. COLLINS" in the FORUM IMF, which is correct?

4. Verify any Legacy Site Data, if any.

All legacy facilities that have been realigned should have a corresponding Station Number where the first three digits are the same as the legacy Primary Facility Station Number. Each of these realigned facilities *must* have a TO value unless that facility was inactivated and does not physically exist any more. Also, any legacy facility that has been previously realigned *must* have a FROM value.

- **a.** From the DBA menu on FORUM, select the PRNT—Institution List by Parent option [XUMF IMF BY PRNT]. This option displays all the facilities associated with a particular parent facility (i.e., Primary Facility).
- **b.** Enter the legacy site's STATION NUMBER (#99) after the "Enter parent facility station number:" prompt, as shown in Figure 2-9:

	Aug	21,	2001@	13:24:0)3	P	age:	1 of	1
INSTITUTION NAME			ST	TYPE	FROM	TO	INACTI	VE DATE	
CENTRAL IOWA HCS			IA	VAMC		636A6	Apr 01	, 2000	
KNOXVILLE			IA	VAMC	592	636A7	Apr 01	, 2000	
DES MOINES			IA	D		636BU	Apr 01	, 2000	
KNOXVILLE			IA	D		636BV	Apr 01	, 2000	
MARSHALLTOWN			IA	STDM		636DW	Apr 01	, 2000	
MARSHALLTOWN			IA	STNB		636EL	Apr 01	, 2000	
MASON CITY			IA	CBOC			_		
MARSHALLTOWN			IA	ORC					
MASON CITY			IL	ORC					
OTTUMWA			IA	ORC	592HA	636GE	Apr 01	, 2000	
MARSHALLTOWN				ORC	592HB		-		
	CENTRAL IOWA HCS KNOXVILLE DES MOINES KNOXVILLE MARSHALLTOWN MARSHALLTOWN MASON CITY MARSHALLTOWN MASON CITY OTTUMWA	CENTRAL IOWA HCS KNOXVILLE DES MOINES KNOXVILLE MARSHALLTOWN MARSHALLTOWN MASON CITY MARSHALLTOWN MASON CITY OTTUMWA	CENTRAL IOWA HCS KNOXVILLE DES MOINES KNOXVILLE MARSHALLTOWN MARSHALLTOWN MASON CITY MARSHALLTOWN MASON CITY OTTUMWA	CENTRAL IOWA HCS IA KNOXVILLE IA DES MOINES IA KNOXVILLE IA MARSHALLTOWN IA MARSHALLTOWN IA MASON CITY IA MARSHALLTOWN IA MASON CITY IL OTTUMWA IA	CENTRAL IOWA HCS IA VAMC KNOXVILLE IA VAMC DES MOINES IA D KNOXVILLE IA D MARSHALLTOWN IA STDM MASSHALLTOWN IA CBOC MASON CITY IA CBC MASON CITY IA ORC OTTUMWA IA ORC	CENTRAL IOWA HCS IA VAMC KNOXVILLE IA VAMC 592 DES MOINES IA D KNOXVILLE IA D MARSHALLTOWN IA STDM MASON CITY IA CBOC MARSHALLTOWN IA ORC MASON CITY IL ORC OTTUMWA IA ORC 592HA	CENTRAL IOWA HCS IA VAMC 636A6 KNOXVILLE IA VAMC 592 636A7 DES MOINES IA D 636BU KNOXVILLE IA D 636BV MARSHALLTOWN IA STDM 636DW MARSHALLTOWN IA STNB 636EL MASON CITY IA CBOC MARSHALLTOWN IA ORC MASON CITY IL ORC OTTUMWA IA ORC 592HA 636GE	CENTRAL IOWA HCS IA VAMC 636A6 Apr 01 KNOXVILLE IA VAMC 592 636A7 Apr 01 DES MOINES IA D 636BU Apr 01 KNOXVILLE IA D 636BV Apr 01 MARSHALLTOWN IA STDM 636DW Apr 01 MARSHALLTOWN IA STNB 636EL Apr 01 MASON CITY IA CBOC MASON CITY IL ORC OTTUMWA IA ORC 592HA 636GE Apr 01	CENTRAL IOWA HCS IA VAMC 636A6 Apr 01, 2000 KNOXVILLE IA VAMC 592 636A7 Apr 01, 2000 DES MOINES IA D 636BU Apr 01, 2000 KNOXVILLE IA D 636BV Apr 01, 2000 MARSHALLTOWN IA STDM 636DW Apr 01, 2000 MARSHALLTOWN IA STNB 636EL Apr 01, 2000 MASON CITY IA CBOC Apr 01, 2000 MASON CITY IL ORC OTTUMWA IA ORC 592HA 636GE Apr 01, 2000

Figure 2-9. Using the PRNT—Institution List by Parent option to verify legacy site data

- **c.** Check the validity of the legacy data in the following fields/columns:
 - ST—This is the State, is it correct for the listed facility?
 - TYPE—This is the Facility Type, is it correct?
 - **REF:** For a list of TYPEs and their acronym definitions, please refer to "Appendix B—Facility Type Acronyms" in this manual.
 - FROM— If applicable, is it correct?
 - NOTE: Any legacy facility that has been previously realigned *must* have a FROM value.
 - TO—This is the new Station Number, is it correct?
 - **NOTE:** Any legacy facility that has been realigned *must* have a TO value unless that facility was inactivated and does not physically exist.

INACTIVE DATE—All legacy Station Numbers should have an inactive date.

In the example in Figure 2-9, the user can see that Station Number 555 is a legacy facility and was realigned under Station Number 636 (i.e., 636A6). However, it appears that Station Numbers 555GA, 555HA, and 555HB do not indicate any values in the TO and INACTIVE DATE columns. If these entries have been realigned, they should have values entered in those fields. Otherwise, the missing TO Station Number indicates that those facilities no longer exist. If that is incorrect, notate that information.

- **d.** Verify that all the legacy facilities are listed. If not, notate the missing legacy Station Numbers.
- Verify that all the legacy facilities listed are valid. If not, notate the invalid legacy Station Numbers.
- **5.** Verify your Primary Facility Association Data.
 - **a.** From the DBA menu on FORUM, select the PRNT—Institution List by Parent option [XUMF IMF BY PRNT]. This option displays all the facilities associated with a particular parent facility (i.e., Primary Facility).
 - **b.** Enter your Primary Facility's STATION NUMBER (#99) after the "Enter parent facility station number:" prompt, as shown in Figure 2-10:

```
Select DBA Option: prnt <Enter> Institution List by Parent
Enter parent facility station number: 442
                               Sep 05, 2001@12:34:53
Institution list
                                                               Page:
                                                                         1 of
                                                                                 1
 STA #
       INSTITUTION NAME
                                         ST
                                             TYPE
                                                     FROM
                                                            TO
                                                                   INACTIVE DATE
        CHEYENNE
 442
                                         WY
                                             M&ROC.
 442DT
        SCOTTSBLUFF ANNEX
                                         NE
                                             STNB
 442GA
        CASPER
                                         WY
                                             CBOC
 442GB
        SIDNEY
                                         NE
                                             CBOC
        FT. COLLINS
 442GC
                                         CO
                                             CBOC
 442GD
        CHEYENNE
                                             CBOC
          Enter ?? for more actions
Select Action:Quit// <Enter>
                                OUIT
```

Figure 2-10. Using the PRNT—Institution List by Parent option to verify Primary Facility

- **c.** Check the validity of the data in the following fields/columns:
 - ST—This is the State, is it correct for the listed facility? If not, notate the correct State (ST).
 - TYPE—This is the Facility Type, is it correct? If not, notate the correct TYPE.
 - **REF:** For a list of TYPEs and their acronym definitions, please refer to "Appendix B—Facility Type Acronyms" in this manual.
 - FROM—This is the facility realigned from—the legacy Station Number for the associated facility/type.
 - TO—This field should be blank.

- INACTIVE DATE—Only/All inactive facilities *must* have an inactive date.
- d. Verify that all the associated facilities are listed. If not, notate the missing Station Numbers. For example, when you compare this list of facilities associated with Station Number 442 shown in Figure 2-10 with the list of facilities in Figure 2-3, you'll notice that Station Number 4429AA generated by the Institution file inquire option is missing from the list generated by the PRNT—Institution List by Parent option (Figure 2-10). In this case, Station Number 4429AA should change its association to the Primary Facility Station Number 442 and should be notated by the site.
 - **1**

NOTE: Six-character numbers (e.g., 4429AA) are Patient Treatment File (PTF) numbers assigned to Nursing Home facilities. They are an exception to the business rule that only Station Numbers approved by 045A4 (Central Office) are stored in the STATION NUMBER field (#99) in the IMF.

e. Verify that all the associated facilities listed are valid. If not, notate the invalid Station Numbers. For example, if a facility is listed using this option, and it shouldn't be associated with that Parent/Primary Facility, notate the Station Number.

- **6.** Verify the VISN data.
 - **a.** From the DBA menu on FORUM, select the VISN—Institution List by VISN option [XUMF IMF BY VISN]. This option shows all the facilities associated with a particular Veterans Integrated Service Network (VISN).
 - **b.** Enter the VISN number after the "Select VISN:" prompt, as shown in Figure 2-11:

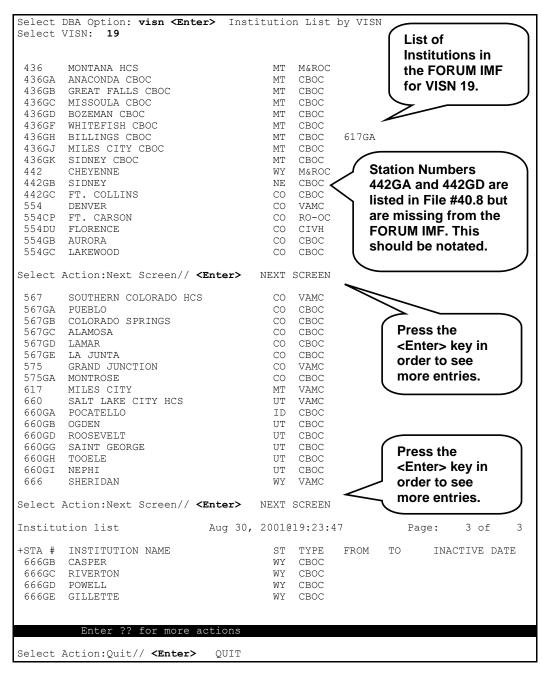


Figure 2-11. Using the VISN—Institution List by VISN option to verify VISN Data

c. Verify that all the associated facilities are listed. If not, notate the missing Station Numbers.

For example, when you compare the entries displayed in Figure 2-8 with the entries in Figure 2-11, you see that Station Numbers 442GA and 442GD are missing from the FORUM IMF and should be notated.

- **d.** Verify that all the associated facilities listed are valid. If not, notate the invalid Station Numbers.
- 7. Send all noted items from Steps 1-6 to the following FORUM mail group:

REDACTED

The FORUM IMF Administrators process any modifications notated and may contact the sites for further clarification, if needed.

Institution File Cleanup Process—Initial

Over time the INSTITUTION file (#4) has evolved into a collection of file entries, which could loosely be considered institution-like, and each file varies greatly from site to site. Since the INSTITUTION file (#4) is referenced by numerous VistA applications, the cleanup process is required to achieve a level of standardization of national entries in support of data exchange initiatives while avoiding a conversion of file references from a vast array of applications. For example, many VistA applications use the INSTITUTION file (#4) STATION NUMBER field (#99) to resolve the logical link used in VistA's HL7 software. However, problems occur when two or more INSTITUTION file (#4) entries have the same STATION NUMBER value or when STATION NUMBER field values are missing from INSTITUTION files altogether.

The Institution file cleanup process does the following:

- Achieves a level of standardization and synchronization of *national* entries in support of data exchange initiatives.
- Avoids a conversion of file references from the vast array of VistA applications that currently reference the INSTITUTION file (#4).

Kernel Patch XU*8.0*209 provides the Institution File Query / Update option [XUMF INSTITUTION] that used a List Manager interface to provide utilities/actions to help the Local Site Institution Master File Administrators "clean up" the INSTITUTION (#4) and FACILITY TYPE (#4.1) files located at their sites.



NOTE: The Institution File Query / Update option [XUMF INSTITUTION] was disabled with Kernel Patch XU*8.0*335 to prevent sites that have already initially cleaned up their INSTITUTION file (#4) from running the option again. It should be used only in development accounts, at CMOPs, or at any VistA instance that has never done the cleanup and needs to load the full Institution table.

These utilities should be run at the initial implementation of Kernel Patch XU*8.0*209 as well as whenever the Local Site Institution Master File Administrators and/or IRM personnel deem it necessary.

Specifically, the cleanup process provides:

- Capability to compare Institution data in the site's (local) INSTITUTION file (#4) vs. FORUM's (national) Institution Master File (IMF, "Gold" file) through several list options.
- Functionality to resolve duplicate STATION NUMBER field values.
- Functionality to automatically merge FORUM's Institution Master File (IMF) *national* data with the local site's INSTITUTION file (#4).
- Functionality to automatically merge FORUM's Facility Type Master File (FMF) *national* data with the local site's FACILITY TYPE file (#4.1).



NOTE: This is a background job; no user interface is required.

The Cleanup utilities utilize the query functionality provided by the Master File Server (MFS) mechanism to query the FORUM IMF *national* data. The data is returned to the local site that stores the IMF data in a temporary global. The Cleanup utilities use this stored information to compare and display the *national* data entries in the Institution Master File (IMF) on FORUM with *local* data entries in the INSTITUTION file (#4) at the site. The comparison process matches on STATION NUMBER (#99, duplicates *not* allowed) rather than on NAME (#.01, duplicates allowed). The cleanup process uses List Manager to display a side-by-side comparison list, sorted by STATION NUMBER.

The cleanup process requires that sites resolve duplicate STATION NUMBER field (#99) values before merging *national* data from the Institution Master File (IMF) located on FORUM with the data found in a local site's INSTITUTION file (#4), such as deleting the duplicate STATION NUMBER field value from the site's INSTITUTION file (#4). However, the INSTITUTION file entry of the duplicate is *not* deleted.

Institution File Query / Update [XUMF INSTITUTION]

The Institution File Query / Update option [XUMF INSTITUTION] provides the following List Manager actions:

- LLCL—List local station numbers.
- NATL—List national data to merge.
- DSTA—Delete local/dup. station #.
- RDSN—Resolve duplicate station numbers.
- AUTO—Auto update with national data.
- CHCK—Required clean up actions.



REF: These List Manager actions are described in greater detail in the topics that follow.



NOTE: The Institution File Query / Update option [XUMF INSTITUTION] was disabled with Kernel Patch XU*8.0*335 to prevent sites that have already initially cleaned up their INSTITUTION file (#4) from running the option again. It should be used only in development accounts, at CMOPs, or at any VistA instance that has never done the cleanup and needs to load the full Institution table.

The software, through this option, automatically connects with the Master File Server (MFS) and obtains the Institution Master File (IMF) and Facility Type Master File (FMF) data on FORUM and stores them in a temporary global on the local system. This process can take approximately five minutes. It then displays the INSTITUTION file (#4) data in a List Manager screen for comparison purposes. If the software fails to connect to the Master File Server (MFS), an error message is displayed.

List local station numbers

The List local station numbers (LLCL) List Manager action checks for and displays any STATION NUMBER field values that are in the site's local INSTITUTION file (#4) but *not* in the FORUM IMF; these are *local* entries.

Specifically, this action does the following:

- Checks for local INSTITUTION file (#4) entries that are *not* in the FORUM IMF.
 - NOTE: The cleanup process eventually deletes these STATION NUMBER field values.
- Displays an informational list of local INSTITUTION file (#4) entries that are *not* in the FORUM IMF. The following INSTITUTION file (#4) data is displayed:
 - Station Number
 - Institution Name
 - Internal Entry Number (IEN)
 - Facility Type
 - NOTE: Sites may wish to print this list before running the Auto update with national data (AUTO) List Manager action to see which Station Number entries will be deleted from the local site's INSTITUTION file (#4).
 - NOTE: All local Station Numbers *must* be deleted using the Delete local/dup. station # (DSTA) and/or Resolve duplicate station numbers (RDSN) List Manager actions before the Auto update with national data (AUTO) List Manager action allows the site to auto update its INSTITUTION file (#4) with the IMF data.

List national data to merge

The List national data to merge List Manager action checks for and displays any *national* STATION NUMBER field values that are in the FORUM IMF that will be added to the site's local INSTITUTION file (#4). Users should notate and/or print this list because the STATION NUMBER field values indicated will be added to the site's local INSTITUTION file (#4) when the Auto update with national data List Manager action is run.

Specifically, this action does the following:

- Checks for FORUM *national* IMF entries that are *not* in the local site's INSTITUTION file (#4).
 - NOTE: The cleanup process merges these FORUM IMF entries with the local site's INSTITUTION file (#4).
- Displays an informational list of the FORUM *national* IMF entries that are *not* in the local site's INSTITUTION file. The following INSTITUTION file (#4) information is displayed (see Figure 2-16):
 - Station Number
 - Institution Name
 - State
 - Facility Type
 - 1

NOTE: Sites may wish to print this list before running the Auto update with national data (AUTO) List Manager action to see which entries will be merged with the local site's INSTITUTION file (#4).

Delete local/dup. station

The Delete local/dup. station# List Manager action deletes local and certain duplicate STATION NUMBER field values from the site's local INSTITUTION file (#4). All duplicate STATION NUMBER field values *must* be resolved before the Auto update with national data List Manager action allows the site to automatically update its local INSTITUTION file (#4) with the *national* FORUM IMF entries.

Specifically, this action does the following:

• Deletes all *local* STATION NUMBER field values from the local site's INSTITUTION file (#4) that are *not* found in the FORUM IMF. However, it does *not* delete entire entries from the local file.



NOTE: To get a list of local Station Numbers to be deleted prior to actually deleting them, use the List local station numbers (LLCL) List Manager action prior to running this action (see the "List national data to merge" topic shown previously).

- Displays those entries for which the local STATION NUMBER field (#99) value was deleted in the Action Area of the List Manager screen to denote processing (i.e., located in the bottom area of the List Manager screen where the action menu is displayed). The following INSTITUTION file (#4) information is displayed:
 - Station Number
 - Internal Entry Number (IEN)
- Deletes duplicate STATION NUMBER field values that can be automatically resolved. However, it does *not* delete entire entries from the local file. For each set of duplicates, the action checks to see if just *one* entry in the set is pointed to by the HL7 LOGICAL LINK file (#870); if so, that entry is kept and the values of the STATION NUMBER field (#99) of the other duplicate entries are deleted.
 - **NOTE:** To resolve those duplicate entries that are *not* automatically deleted, use the Resolve duplicate station numbers List Manager action (RDSN, description follows).
- Displays those entries for which the duplicate STATION NUMBER field (#99) values were automatically resolved and deleted in the Action Area of the List Manager screen to denote processing (i.e., located in the bottom area of the List Manager screen where the action menu is displayed). The following INSTITUTION file (#4) information is displayed (see Figure 2-19):
 - Station Number
 - Internal Entry Number (IEN)
- Displays any duplicate sets of STATION NUMBER field values in the local INSTITUTION file (#4) that require manual review and resolution (i.e., the set of duplicates having no pointer from File #870). The following INSTITUTION file (#4) information is displayed:
 - Line Number
 - Station Number
 - Institution Name
 - Internal Entry Number (IEN)



NOTE: After reviewing these duplicates and deciding which ones to delete, use the Resolve duplicate station numbers (RDSN) List Manager action to remove the duplicates from the local site's INSTITUTION file (#4).

• Provides an additional List Manager action, Resolve duplicate station numbers (RDSN), to resolve the duplicates that require manual intervention.

• Creates a new cross-reference ^DIC(4,"AOLD99",IEN,station_number) for all deleted STATION NUMBER field (#99) values.



NOTE: All local and duplicate Station Numbers *must* be deleted using the Delete local/dup. station # (DSTA) and/or Resolve duplicate station numbers (RDSN) List Manager actions before the Auto update with national data (AUTO) List Manager action allows the site to automatically update its local INSTITUTION file (#4) with the FORUM IMF data.



CAUTION: If the site's own STATION NUMBER (#99) is a duplicate, then extreme caution must be exercised when selecting the STATION NUMBER entry to delete, since the INSTITUTION file (#4) is referenced by other standard files, such as the HL LOGICAL LINK (#870), MEDICAL CENTER DIVISION (#40.8), and STATION NUMBER (TIME SENSITIVE) (#389.9) files. These file entries should be checked *before* and *after* performing the cleanup process to verify that they point to a valid INSTITUTION file entry, complete with STATION NUMBER.

Also, please note that other VistA applications (including Automated Medical Information Exchange [AMIE], Record Tracking, and MPI/PD) may be negatively affected, if their pointers to an INSTITUTION file entry do not have valid STATION NUMBERs.

Resolve duplicate station numbers

The Resolve duplicate station numbers List Manager action allows users to select the duplicate STATION NUMBER field value to delete from the site's local INSTITUTION file (#4). All duplicate STATION NUMBER field values *must* be resolved before the Auto update with national data List Manager action allows the site to automatically update its local INSTITUTION file (#4) with the *national* FORUM IMF entries.

Specifically, this action does the following:

- Allows selection from a list of duplicates.
- Deletes the STATION NUMBER field (#99) value of the selected duplicate; however, it does *not* delete the entire file entry for the selected duplicate.

The Resolve duplicate station numbers (RDSN) List Manager action is available only *after* running the Delete local/dup. station # (DSTA) List Manager action (see Delete local/dup. station # shown previously). Users *must* continuously select this action until *all* unresolved duplicates have been reviewed and deleted from the local site's INSTITUTION file (#4). Users *must* resolve all duplicates *before* running the Auto update with national data (AUTO) List Manager action.



CAUTION: If the site's own STATION NUMBER (#99) is a duplicate, then extreme caution must be exercised when selecting the STATION NUMBER entry to delete, since the INSTITUTION file (#4) is referenced by other standard files, such as the HL LOGICAL LINK (#870), MEDICAL CENTER DIVISION (#40.8), and STATION NUMBER (TIME SENSITIVE) (#389.9) files. These file entries should be checked *before* and *after* performing the cleanup process to verify that they point to a valid INSTITUTION file entry, complete with STATION NUMBER.

Also, please note that other VistA applications (including Automated Medical Information Exchange [AMIE], Record Tracking, and MPI/PD) may be negatively affected, if their pointers to an INSTITUTION file entry don't have a valid STATION NUMBER.



NOTE: All duplicate Station Numbers *must* be deleted using the Delete local/dup. station # (DSTA) and/or Resolve duplicate station numbers (RDSN) List Manager actions before the Auto update with national data (AUTO) List Manager action allows the site to automatically update their INSTITUTION file (#4) with the FORUM IMF data.

If a problem in a specific software application should arise, that issue may have to be dealt with on a case-by-case basis. Kernel Patch XU*8.0*209 implements the \$\$099^XUAF4(IEN) API and "O99" cross-reference, which can be used to resolve (re-point) any software-specific issues.



REF: For more information on the \$\$O99^XUAF4(IEN) API, please refer to the "\$\$O99^XUAF4(): IEN of Merged Station Number" topic in Chapter 5, "Application Program Interfaces (APIs)," in this manual.

Auto update with national data

The Auto update with national data List Manager action merges the FORUM IMF *national* entries into the site's local INSTITUTION file (#4).

Specifically, this action does the following:

- Checks for local and duplicate STATION NUMBER field values:
 - Local or Duplicate Entries Exist—Notifies the user and suspends the update until the duplicates are resolved.
 - No Local or Duplicate Entries Exist—Updates the local site's INSTITUTION file (#4) data with FORUM *national* data.
- Flags the STATUS field (#11) based on the appropriate record type:
 - National Entries—Sets the STATUS field (#11) to "National" in the local site's INSTITUTION file.
 - Local Entries—Sets the STATUS field (#11) to "Local" in the local site's INSTITUTION file (#4).

Specifically, the Auto Update process does the following:

- **A.** Cleans out any data stored in the STATION NAME field (#7).
- **B.** Sets the INACTIVE FACILITY FLAG field (#101) and deletes the STATUS field (#11) value for any entry with a STATUS field (#11) of INACTIVE.
- C. Merges the FORUM IMF data with the local site's INSTITUTION file (#4).
 - 1. Sets the STATUS field (#11) flag to "National" for *national* entries and to "Local" for *local* entries.
 - **2.** Populates the following INSTITUTION file (#4) fields (listed in field number order):
 - NAME (#.01)
 - STATE (#.02)
 - FACILITY TYPE (#13)
 - STATION NUMBER (#99)
 - OFFICIAL VA NAME (#100)
- **D.** Sets the INACTIVE FACILITY FLAG (#101) for inactive facilities and deactivated Station Numbers.
- **E.** Sets a pointer to/from the new/old INSTITUTION file (#4) entry together with the effective date for Integrated/realigned facilities; these values are stored in the following HISTORY Multiple field (#999) fields (listed in field number order):
 - EFFECTIVE DATE (#.01).
 - REALIGNED TO (#.05).
 - REALIGNED FROM (#.06).

The Auto update with national data (AUTO) List Manager action takes approximately 5-10 minutes to run and the terminal will "hang" until complete. When this action is completed, the cleanup of the local site's INSTITUTION file (#4) is done. However, users should run the Required clean up actions (CHCK) List Manager action to verify that there are no further duplicates and that all IMF data merged correctly.

Required clean up actions (CHCK)

The Required clean up actions (CHCK) List Manager action verifies that all required cleanup actions have been taken prior to initiating the Auto update with national data (AUTO) List Manager action.

Local Sites Step-by-Step Procedures—Initial Institution File Cleanup Process

The following is the *suggested* order of the step-by-step procedures to initially clean up the local site's INSTITUTION file (required steps are notated):



CAUTION: Prior to performing the Cleanup, users *must* review/check the data in the FORUM IMF file.

For more information on reviewing/checking data, please refer to the "Institution File Data Review/Check" topic in this chapter.

- **1.** (Required) Log on to the system.
- **2.** (Required) Choose the Institution File Query / Update option [XUMF INSTITUTION], as shown in Figure 2-12:
 - 0

NOTE: The Institution File Query / Update option [XUMF INSTITUTION] was disabled with Kernel Patch XU*8.0*335 to prevent sites that have already initially cleaned up their INSTITUTION file (#4) from running the option again. It should be used only in development accounts, at CMOPs, or at any VistA instance that has never done the cleanup and needs to load the full Institution table.

```
Select OPTION NAME: XUMF
        XUMF FORUM INSTITUTION
                                    Institution Master File edit
        XUMF INSTITUTION
                             Institution File Query / Update
CHOOSE 1-2: 2 <Enter> XUMF INSTITUTION
                                           Institution File Query / Update
Institution File Query / Update
                                          The master files are being
...connecting with master file server..
                                          accessed. It may take a few
...please wait...(approx. 5 minutes)...
                                          minutes before users are ready to
                                          proceed.
... getting FACILITY TYPE file...
...getting INSTITUTION file.....
```

Figure 2-12. Initial dialogue when using the Institution File Query / Update option [XUMF INSTITUTION]

As the example in Figure 2-12 shows, to initiate the cleanup process the user chose the XUMF INSTITUTION option (i.e., Institution File Query / Update) by entering "2" at the "CHOOSE 1-2:" prompt.

The software automatically connected to the Master File Server (MFS) in order to obtain both the FACILITY TYPE (#4.1) and INSTITUTION (#4) master files on FORUM. The following messages were displayed notifying the user that this process was taking place and that it could take several minutes to complete:

```
...connecting with master file server...
...please wait...(approx. 5 minutes)...
```

When both master files on FORUM were obtained and stored in a temporary global on the local system, the following was displayed:

```
...getting FACILITY TYPE file...
...getting INSTITUTION file......
```

At this point the user was ready to proceed to the next step in the cleanup process (see Step #3).

3. (Optional) Visually compare the local site's INSTITUTION file (#4) data in the List Manager column headed "INSTITUTION NAME" with FORUM's national Institution Master File (IMF) data in the List Manager column headed "GOLD NAME," as shown in Figure 2-13:

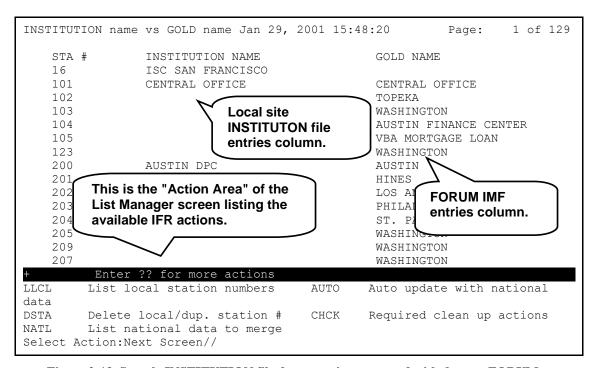


Figure 2-13. Sample INSTITUTION file data at a site compared with data on FORUM

This main screen (Figure 2-13) displays a side-by-side view of the current INSTITUTION file (#4) entries at the site (middle column) along with the corresponding IMF entries on FORUM (right column), sorted by Station Number (left column). As you can see, some items are missing an Institution Name or an IMF Name and some items' Names are not the same.

For example, see Station Number 102 in Figure 2-13. As you can see, there is no Name displayed under the "INSTITUTION NAME" column, however, "TOPEKA" is displayed under the "GOLD NAME" column in the display.

Missing or different Name entries may be due to one of the following:

- Name listed in the "INSTITUTION NAME" column, but missing in the "GOLD NAME" column—These are the site's INSTITUTION file (#4) Station Number entries that are missing in the IMF (i.e., "Gold"). For example, see Station Number 16 in Figure 2-13. The cleanup process deletes these Station Number field entries from the local site's INSTITUTION file (#4).
 - NOTE: To get a specific list of these entries, use the List local station numbers (LLCL) List Manager action (see Step #4).
- Name listed in the "GOLD NAME" column, but missing in the "INSTITUTION NAME" column—These are the IMF Station Number (i.e., "Gold") entries that are missing in the site's INSTITUTION file (#4). For example, see Station Number 103 in Figure 2-13. The cleanup process adds these FORUM IMF Station Number entries to the local site's INSTITUTION file (#4).
 - NOTE: To get a specific list of these entries, use the List national data to merge (NATL) List Manager action (see Step #5).
- Name found in both the "GOLD NAME" and "INSTITUTION NAME" columns, but different—In this case the FORUM IMF entry Name is assumed correct and is used to update the local site's INSTITUTION file (#4) when the Cleanup Process Auto update with national data (AUTO) List Manager action is run (see Step #8). For example, see Station Number 200 in Figure 2-13.

The purpose of this list is to compare the local site's INSTITUTION file (#4) vs. the FORUM IMF. If duplicate Station Numbers exist in the local file, they are *not* displayed twice in the list. However, the Delete local/dup. station # (DSTA) List Manager action lists all duplicates deleted or requiring manual review for resolution (see Step #6). The Resolve duplicate station numbers (RDSN) List Manager action is used to review/resolve these duplicates (see Step #7).

4. (Optional but recommended) Choose the List local station numbers (LLCL) List Manager action to visually notate those STATION NUMBER field (#99) values in the local site's INSTITUTION file (#4) that will be deleted when the Delete local/dup. station # (DSTA) List Manager action is run (see Step #6).

If users select the List local station numbers (LLCL) List Manager action *before* running either the Delete local/dup. station # (DSTA) or Auto update with national data (AUTO) List Manager actions and users have Station Numbers unique to their site, they might be presented with a list (List Manager screen) similar to the following:

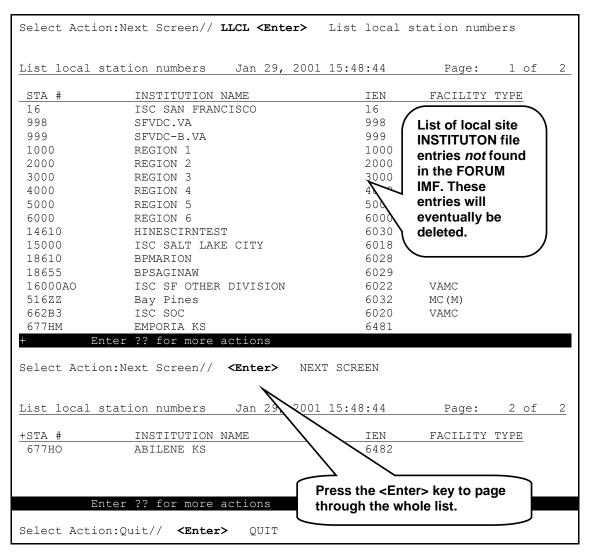


Figure 2-14. Using the List local station numbers (LLCL) action

In the example in Figure 2-14, the user wanted to list the local entries that would be deleted during the cleanup process. Thus, the user entered "**LLCL**" (List local station numbers) at the "Select Action:Next Screen//" prompt.

As you can see, ListMan displayed 18 local Station Numbers unique to this site that were *not* found in the FORUM IMF. To see the complete list, the user had to press the **<Enter>** key at the "Select Action:Next Screen//" prompt. After viewing the entire list, the user pressed the **<Enter>** key at the "Select Action:Quit//" prompt to accept the "Quit" Default.

Cleanup of the local site's INSTITUTION file requires that all of these local STATION NUMBER field (#99) values be deleted from the file. The entries are deleted using the Delete local/dup. station # (DSTA) List Manager action (see Step #6).

If users select the List local station numbers (LLCL) List Manager action again *after* running the Auto update with national data (AUTO) List Manager action or there are no unique local Station Numbers, users are presented with the following List Manager screen:

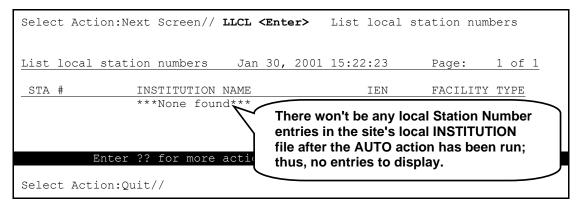


Figure 2-15. Using the List local station numbers (LLCL) action after running the AUTO action

In the example in Figure 2-15, the local site's INSTITUTION file (#4) has already been updated (i.e., all local Station Numbers have been deleted); thus, there won't be any local Station Number entries to display when the user runs the List local station numbers (LLCL) List Manager action again.



NOTE: Generally, users also will not find any local Station Numbers after running the Delete local/dup. station # (DSTA) List Manager action. However, there may still be some unresolved duplicate local Station Numbers that will continue to be displayed until they are reviewed by the user and resolved using the Resolve duplicate station numbers (RDSN) List Manager action (see Step #7).

5. (Optional) Choose the List national data to merge (NATL) List Manager action to visually notate those entries that will be merged with the local site's INSTITUTION file (#4) when the Auto update with national data List Manager action is run (see Step #8).

If users select the List national data to merge (NATL) List Manager action, they are presented with a list (List Manager screen) similar to the following:

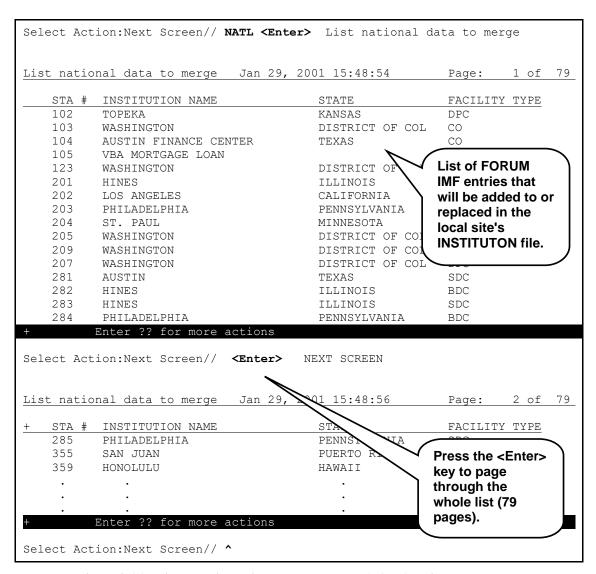


Figure 2-16. Using the List national data to merge (NATL) action

In the example in Figure 2-16, the user wanted to see the FORUM IMF entries that would be merged with the local site's INSTITUTION file. Thus, the user entered "NATL" (List national data to merge) at the "Select Action:Next Screen//" prompt.

The software automatically displays all of the FORUM IMF entries. In the example illustrated by Figure 2-16, 79 pages of data were displayed. (For the sake of brevity, we have only shown a page and half of data.) To see all of the entries on the subsequent pages, the user would need

to press the **<Enter>** key at the "Select Action:Next Screen//" prompt until the last page (screen) of the list was reached.

If users select the List national data to merge (NATL) List Manager action again *after* running the Auto update with national data (AUTO) List Manager action, they are presented with the following List Manager screen:

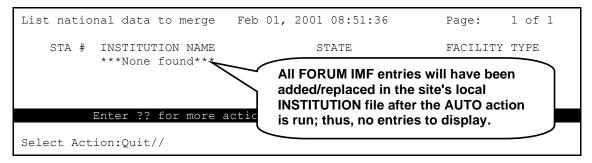


Figure 2-17. Using the List national data to merge (NATL) action after running the AUTO action

In the example in Figure 2-17, the local site's INSTITUTION file (#4) has already been updated (i.e., all FORUM IMF data has been merged into the local site's INSTITUTION file). Thus, there will not be any FORUM IMF entries to display when users again run the List national data to merge (NATL) List Manager action.

6. (Required) Choose the Delete local/dup. station # (DSTA) List Manager action when you wish to delete duplicate and *local* STATION NUMBER field values from the local site's INSTITUTION file (#4), as shown in Figure 2-18:

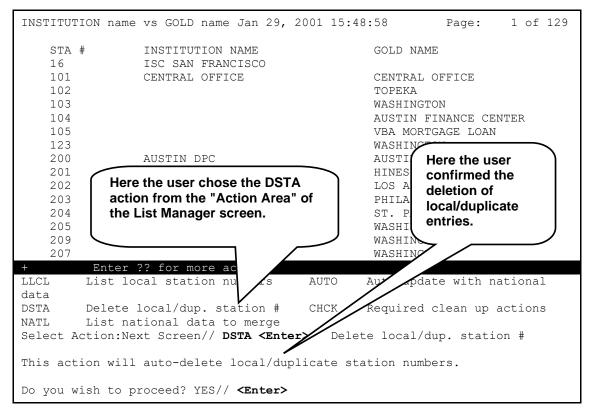


Figure 2-18. Using the Delete local/dup. station # (DSTA) action

After reviewing the local entries (see Step #4 and Figure 2-14), the user decided to delete the local and duplicate Station Numbers from the local site's INSTITUTION file (#4) by entering "**DSTA**" (Delete local/dup. station #) at the "Select Action:Next Screen//" prompt.

The software immediately warned the user that "This action will auto-delete local/duplicate station numbers." The user pressed the **<Enter>** key to accept the default of "YES" at the "Do you wish to proceed? YES//" prompt.

As shown in Figure 2-19, the software began displaying the entries that were being deleted in the "Action Area" of the List Manager display (i.e., you can also see this area at the bottom area of the List Manager screen where the action menu is displayed in Figure 2-13:

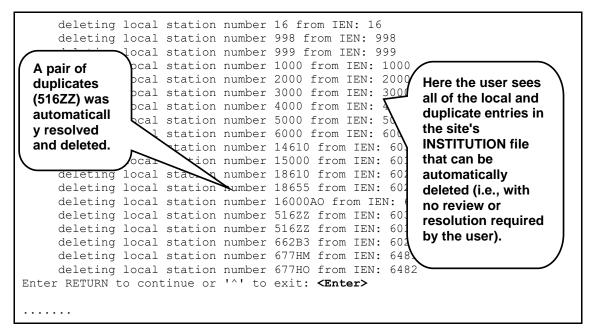


Figure 2-19. Using the Delete local/dup. station # (DSTA) action—Deleting local and duplicate entries

Figure 2-19 displays those entries for which the local and duplicate STATION NUMBER field (#99) values were automatically resolved and deleted (i.e., the set where only *one* of the duplicate entries had a valid pointer from File #870). This list is displayed in the Action Area of the List Manager screen. As you can see, for example, the duplicate Station Number 516ZZ was automatically resolved and deleted along with the other local entries in the local site's INSTITUTION file (#4).

The software, however, was unable to resolve *all* of the duplicates in the local site's INSTITUTION file (#4). The duplicate sets of STATION NUMBER field (#99) values in the local INSTITUTION file (#4) that required review and resolution (i.e., the set having no pointer from File #870) are shown in Figure 2-20:

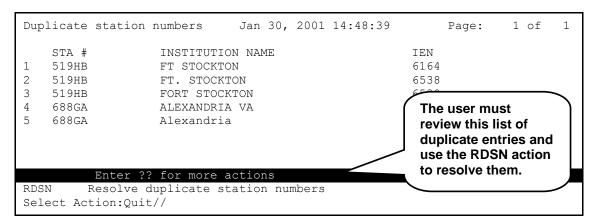


Figure 2-20. Using the Delete local/dup. station # (DSTA) action—Unresolved duplicates

Since there are unresolved duplicate sets of entries in the INSTITUTION file (Figure 2-20), the software presents the Resolve duplicate station numbers (RDSN) List Manager action to be used after the user reviews the duplicates and determines which ones should be deleted.



REF: For more information on the Resolve duplicate station numbers (RDSN) List Manager action, please refer to Step #7.

If users select the Delete local/dup. station # (DSTA) List Manager action again *after* running the Delete local/dup. station # (DSTA) and Resolve duplicate station numbers (RDSN) List Manager actions (when all duplicates have been resolved) or the Auto update with national data (AUTO) List Manager action, they are presented with the List Manager screen in Figure 2-21:

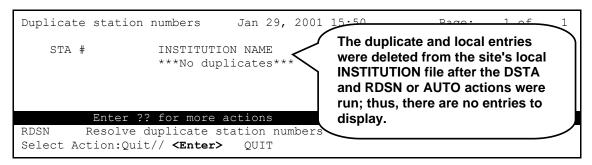


Figure 2-21. Using the Delete local/dup. station # (DSTA) action—No unresolved duplicates

In the example in Figure 2-21, the local site's INSTITUTION file (#4) had already been updated to remove local and duplicate entries. Thus, there were no duplicate entries to display when users ran the Delete local/dup. station # (DSTA) List Manager action.

7. (Required if duplicates still exist after Step #6) Choose the Resolve duplicate station numbers (RDSN) List Manager action when user review is required to resolve duplicates in the local site's INSTITUTION file (see Step #6).

The use of the Resolve duplicate station numbers (RDSN) List Manager action is illustrated in Figure 2-22 through Figure 2-24:

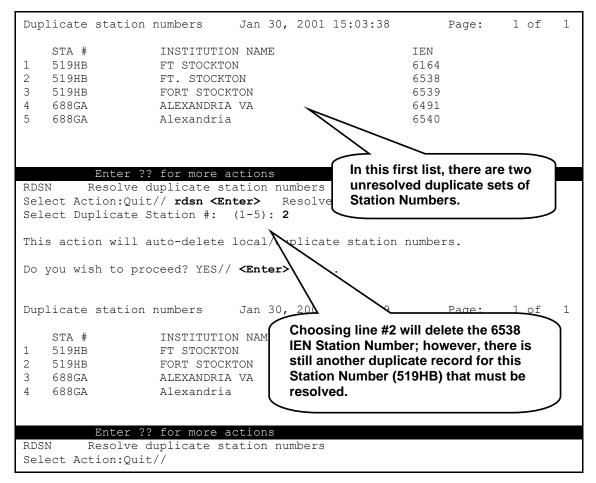


Figure 2-22. Using the Resolve duplicate station numbers (RDSN) action—Resolving duplicates (1)

In the example in Figure 2-22, after running the Delete local/dup. station # (DSTA) List Manager action (see Figure 2-20), there were two duplicate sets of Station Numbers that couldn't be resolved automatically.

The user reviewed the list of unresolved duplicates to determine which of the duplicates should be deleted from the local site's INSTITUTION file (#4). One set of duplicates had three duplicate Station Numbers (519HB) and another set had two duplicate Station Numbers (688GA).

For this example, the user decided that the following Station Numbers (from the first list displayed in Figure 2-22) needed to be deleted:

Line #	Station #	Institution Name	IEN
2	519HB	FT. STOCKTON	6538
3	519HB	FORT STOCKTON	6539
5	688GA	Alexandria	6540

To remove these selected Station Number field values, the user ran the Resolve duplicate station numbers List Manager action by entering "**RDSN**" at the "Select Action:Quit//" prompt (see Figure 2-22).

To delete the first duplicate record in the first set of STATION NUMBER 519HB duplicates (i.e., Line #2), the user entered a "2" at the "Select Duplicate Station #: (1-5):" prompt. The RDSN action displayed the following message:

"This action will auto-delete local/duplicate station numbers."

The user pressed the **<Enter>** key to accept the default of "YES" at the "Do you wish to proceed? YES//" prompt.

The RDSN action then automatically deleted the FT. STOCKTON (i.e., IEN 6538) STATION NUMBER field (#99) value from the local site's INSTITUTION file. The resulting, updated List Manager screen was redisplayed, as shown in Figure 2-23:

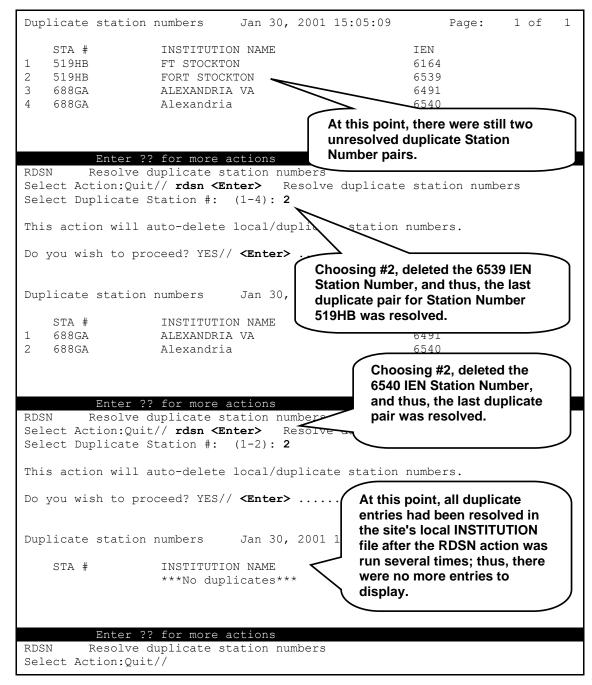


Figure 2-23. Using the Resolve duplicate station numbers (RDSN) action—Resolving duplicates (2)

When you compare the first list in Figure 2-23 with the first list in Figure 2-22, you see that the FT. STOCKTON duplicate entry was removed (deleted) from both the list and the local site's INSTITUTION file.

To delete the second and last duplicate record in the first set of STATION NUMBER 519HB duplicates (i.e., Line #2), the user entered a "2" at the "Select Duplicate Station #: (1-4):" prompt. The RDSN action displayed the following message:

```
"This action will auto-delete local/duplicate station numbers."
```

The user then pressed the **<Enter>** key to accept the default of "YES" at the "Do you wish to proceed? YES//" prompt.

Again, the list was updated and redisplayed. However, at that point, all of the first set of STATION NUMBER 519HB duplicates had been resolved, and thus, were no longer listed.

The user was then left with the last pair of duplicates for STATION NUMBER 688GA.

To delete the second and last duplicate record in the second set of STATION NUMBER 688GA duplicates (i.e., Line #2), the user entered a "2" at the "Select Duplicate Station #: (1-2):" prompt. The RDSN action displayed the following message:

```
"This action will auto-delete local/duplicate station numbers."
```

The user pressed the **Enter>** key to accept the default of "YES" at the "Do you wish to proceed? YES//" prompt.

Again, the list was updated and redisplayed. However, at that point, *all* of the duplicates had been resolved, and thus, there were no more entries to display in the list.

If the user again selects the Resolve duplicate station numbers (RDSN) List Manager action, the screen in Figure 2-24 is displayed:

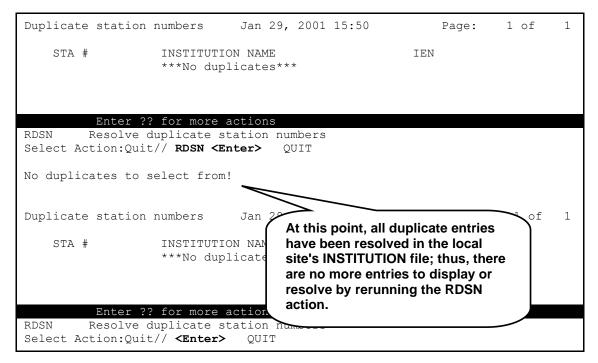


Figure 2-24. Using the Resolve duplicate station numbers (RDSN) action—All duplicates resolved

At this point all of the duplicate records have been resolved, so running the Resolve duplicate station numbers (RDSN) again is unnecessary.

8. (Required) Choose the Auto update with national data (AUTO) List Manager action when you are ready to merge the FORUM IMF *national* entries with the local site's INSTITUTION file (#4).

After performing Steps #4 - #7, you are ready to run the Auto update with national data (AUTO) List Manager action, as shown in Figure 2-25:

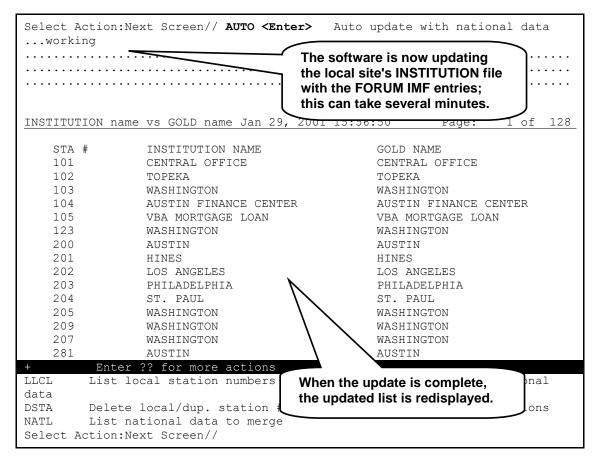


Figure 2-25. Using the Auto update with national data (AUTO) action—After eliminating duplicates

As you can see from Figure 2-25, the user chose to run the update, *after* all previous tasks had been completed (see Steps #4 - #7), by entering "**AUTO**" (Auto update with national data) at the "Select Action:Next Screen//" prompt.

The software indicates that the update is taking place by displaying the word "working" and a series of dots while it merges the FORUM IMF entries with the local site's INSTITUTION file (#4).

When the update has completed, the list of entries is updated and redisplayed. Compare this list to the original list displayed in Figure 2-13—entries in both columns now match each other exactly. The user has now successfully cleaned the local site's INSTITUTION file (#4).

Users should run the Required clean up actions (CHCK) List Manager action to confirm that the update completed successfully (see Step #9 and Figure 2-29).

If the user runs the Auto update with national data (AUTO) List Manager action *prior* to completing Steps #6 - #7, the List Manager screen in Figure 2-26 is displayed:

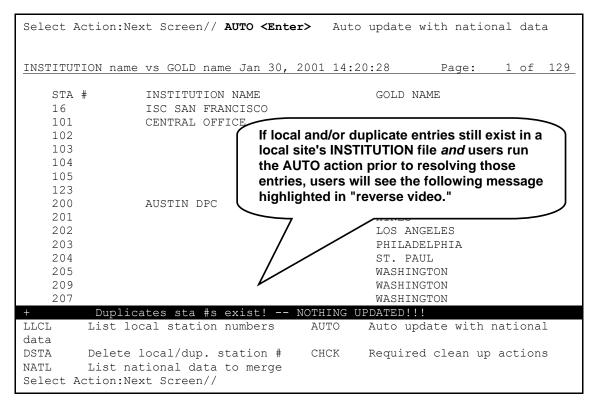


Figure 2-26. Using the Auto update with national data (AUTO) action—Prior to eliminating local and duplicate entries

Users *cannot* run the Auto update with national data (AUTO) Action without first running the Delete local/dup. station # (DSTA) and Resolve duplicate station numbers (RDSN) List Manager actions, if any local or duplicate entries still exist in the local site's INSTITUTION file.

9. (Required) Choose the Required clean up actions (CHCK) List Manager action to monitor the system status after you have initiated the Auto update with national data (AUTO) List Manager action. This action can be run at any time to determine which steps are required to successfully complete the local site's INSTITUTION file (#4) cleanup.

Specifically, this action does the following:

- Checks for local and duplicate Station Numbers (see Steps #4 and #6 #7).
- Checks for missing FORUM IMF entries in the local site's INSTITUTION file (see Steps #5 and #8).
- Displays any discrepancies found with the appropriate resolving action.
- Notifies the user when the update is completed if no discrepancies are found.

If the user runs the Required clean up actions (CHCK) List Manager action *prior* to completing Steps #6 - #8, the List Manager screen in Figure 2-27 is displayed:

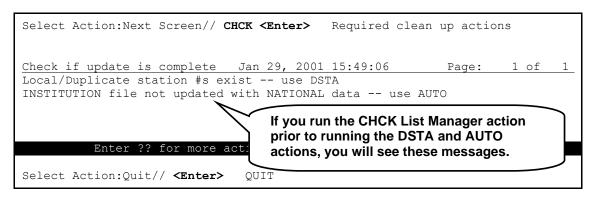


Figure 2-27. Using the Required clean up actions (CHCK) action—Prior to running the DSTA and AUTO actions

In the example in Figure 2-27, the user chose to run the Required clean up actions (CHCK) List Manager Action by entering "CHCK" at the "Select Action:Next Screen//" prompt.

Since the Delete local/dup. station # (DSTA), Resolve duplicate station numbers (RDSN), or Auto update with national data (AUTO) List Manager actions had *not* been completed, the following two messages displayed to tell the user to complete required Steps #6 - #8:

```
Local/Duplicate station #s exist -- use DSTA INSTITUTION file not updated with NATIONAL data -- use AUTO
```

If the user runs the Required clean up actions (CHCK) List Manager action *prior* to completing Step #8 but *after* completing Steps #6 and #7, the List Manager screen in Figure 2-28 is displayed:

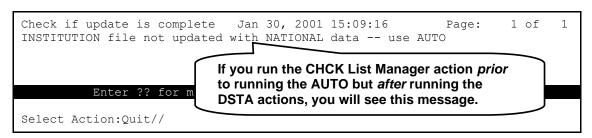


Figure 2-28. Using the Required clean up actions (CHCK) action—After running the DSTA option but prior to running the AUTO action

In the example in Figure 2-28, since the Auto update with national data (AUTO) List Manager action has *not* been completed but the user has run the Delete local/dup. station # (DSTA) and Resolve duplicate station numbers (RDSN) List Manager actions, the following message displays to tell the user to complete required Step #8:

```
INSTITUTION file not updated with NATIONAL data -- use AUTO
```

If the user runs the Required clean up actions (CHCK) List Manager action *after* completing *all* of the required steps (i.e., Steps #6 - #8), the List Manager screen in Figure 2-29 is displayed:

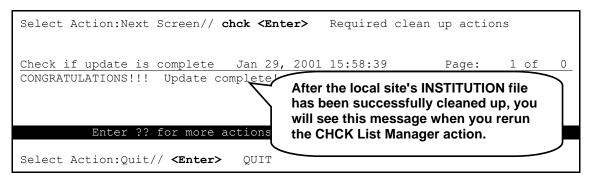


Figure 2-29. Using the Required clean up actions (CHCK) action—After running the DSTA and AUTO actions

Since all required Steps #6 - #8 have been successfully completed, the user is finished with the local site's INSTITUTION file cleanup. The software display the following message:

```
CONGRATULATIONS!!! Update complete!
```

10. Log off of the system after the cleanup process is completed.

Institution File Cleanup Process—HealtheVet

HealtheVet applications will soon be using Institution data supplied by Standards & Terminology Services (STS): Standard Data Service (SDS). SDS will extract data from the Institution Master File (IMF) on FORUM. Once this data has been extracted and loaded into an SQL database, Foreign Key Constraints will be applied and the Institution records will be permanent for the life of HealtheVet-VistA. It is extremely important that we start with quality data.

Kernel Patch XU*8.0*335 allows sites to *locally* update their Institution data including the following fields (listed in field number order):

- NAME (#.01)
- STATE (#.02)
- Address Information:
 - ST. ADDR. 1 (MAILING) field (#4.01)
 - ST. ADDR. 2 (MAILING) field (#4.02)
 - CITY (MAILING) field (#4.03)
 - STATE (MAILING) field (#4.04)
 - ZIP (MAILING) field (#4.05)
 - STREET ADDR. 1 field (#1.01)
 - STREET ADDR. 2 field (#1.02)
 - CITY field (#1.03)
 - STATE field (#.02)
 - ZIP field (#1.04)
- FACILITY TYPE (#13)
- ASSOCIATIONS Multiple (#14)—VISN association type
 - PARENT OF ASSOCIATION (#1)
- AGENCY CODE (#95)
- OFFICIAL VA NAME (#100)
- INACTIVE FACILITY FLAG (#101)

These local updates automatically update the central Institution Master File (IMF) on FORUM. The IMF update in turn broadcasts an HL7 unsolicited update to all VistA instances. This means that local edits will be published to every facility—automatically updating a site's entries throughout the VHA. Sites are only allowed to edit their own Institution data.

In addition to updating the fields listed above, the goal of Kernel Patch XU*8.0*335 is to correctly identify parent/child facility relationships in the INSTITUTION file (#4). In order to do this, the medical center "divisions" *must* be separated from the Health Care System (HCS) entries. This means an entry *must* be added for every HCS. Kernel Patch XU*8.0*335 adds these entries automatically.

In the ASSOCIATIONS Multiple field (#14), child facilities now point to their administrative parent. The parent, or primary facility, points to its parent (HCS or VISN). The new HCS entries point to a VISN entry. All parent relationships eventually resolve to a VISN.

A STATUS field (#3) was added to the FACILITY TYPE file (#4.1). National entries are flagged. An Input Transform was added to the FACILITY TYPE field (#13) of the INSTITUTION file (#4) to prevent the selection of *non*-standard facility types from "national" INSTITUTION file (#4) entries.



NOTE: When updating the Facility Type of one of your facilities, if the Facility Type you need is not selectable and should be, send a MailMan message to the XUMF INSTITUTION HSITES mail group. Members of that group will review the request and make any necessary updates to the Master FACILITY TYPE file. This update will then be broadcast to all VistA instances.

The goal is to standardize both Institution and Facility Type data throughout the VHA. Please do *not* bypass the updating mechanism. If you do, it will defeat the standardization efforts and cause your site to become out-of-sync with other medical centers. Subsequent patches and/or MFS updates will override these local modifications. This will invalidate the local measures and result in data synchronization issues between facilities, which will result in an endless cycle of updating and cleanups.

The following options were added/modified with Kernel Patch XU*8.0*335:

- IMF edit Option [XUMF IMF ADD EDIT]—Added
- IMF Display Cleanup Status Option [XUMF IMF EDIT STATUS]—Added
- Patch XU*8*335 clean 4.1 and 4 Option [XUMF335 clean 4.1 and 4]—Added
- Institution File Query / Update Option [XUMF INSTITUTION]—Disabled

IMF edit Option

The IMF edit option [XUMF IMF ADD EDIT] allows the site to edit their INSTITUTION file (#4) entries (i.e., those entries that share the same 3-digit Station Number as the current users logon division) and generate an HL7 update message to update the Institution Master File (IMF) on FORUM.

HL7 must be running before using the XUMF IMF ADD EDIT option.

This option is locked with the XUMF INSTITUTION security key.

IMF Display Cleanup Status Option

The IMF Display Cleanup Status option [XUMF IMF EDIT STATUS], in the XUKERNEL menu, lists all your facilities that need updating. It also lists the fields that are missing data. It's a good idea to list this information before editing your data.

Patch XU*8*335 clean 4.1 and 4 Option

The Patch XU*8*335 clean 4.1 and 4 option [XUMF335 clean 4.1 and 4] queries the IMF for the latest copy of Institution data—updating the local INSTITUTION file (#4). All INACTIVE facilities have the NAME (#.01) ZZ'd and the VISN and PARENT FACILITY associations removed. It removes facility types before getting new values, so it should be run after hours. This option should be run at a later date after all sites have completed editing.

Institution File Query / Update Option

The Institution File Query / Update option [XUMF INSTITUTION] was disabled as part of Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup) to prevent sites that have already initially cleaned up their INSTITUTION file (#4) from running the option again. It should be used only in development accounts, at CMOPs, or at any VistA instance that has never done the cleanup and needs to load the full Institution table.

Update/refresh Institution file with IMF data Option

The Update/refresh Institution file with IMF data option [XUMF LOAD INSTITUTION] loads the current IMF data into the INSTITUTION file (#4).



NOTE: The XUMF LOAD INSTITUTION option will not be completely successful if there are duplicate station numbers. The cleanup (see the "Institution File Cleanup Process—Initial" topic in this chapter) fixes/removes duplicates. Thus, the cleanup is a required first step before you can get updates, get the national table, or use the XUMF LOAD INSTITUTION option.

Load Institution NPI values Option

The Load Institution NPI values option [XUMF LOAD NPI] was added to FORUM with Kernel Patch XU*8.0*416. This option is located on the Kernel Management Menu [XUKERNEL]. This option is to be used only in the case the National Provider Identifier (NPI) values fail to load in the post install or if it should become necessary to reload the NPI values (e.g., NPI values become corrupt or the data otherwise needs to be refreshed).

This option is used to edit institution data, including NPI and Taxonomy codes, selectable by coding system (e.g., NPI, Department of Defense [DOD], or Clinical Laboratory Improvement Amendments [CLIA]) and Identifier pair (for beta testing made target site, for Health Level seven [HL7] unsolicited update message, selectable rather than publish nationally).

Local Sites Step-by-Step Procedures—Health eVet Institution File Cleanup Process

The following is the *suggested* order of the step-by-step procedures to clean up the local site's INSTITUTION file (#4) for HealtheVet (required steps are notated):



CAUTION: Prior to performing the Cleanup, users must review/check the data in the FORUM IMF file.

- 1
- **REF:** For more information on reviewing/checking data, please refer to the "Institution File Data Review/Check" topic in this chapter.
- **1.** (Required) Log on to the system.
- 2. (Recommended) Choose the IMF Display Cleanup Status option [XUMF IMF EDIT STATUS] to view and review required Institution updating. We recommend that you work with your Health Administration Services (HAS) ADPAC.
- **3.** (Required) Choose the IMF edit option [XUMF IMF ADD EDIT] to make any necessary updates to your site's institution data.
 - 1

NOTE: Please note the following when using the XUMF IMF ADD EDIT Option:

- This option is locked with the XUMF INSTITUTION security key.
- The "^" jump out is disabled. You *must* answer all required fields.
- HL7 *must* be running before using the XUMF IMF ADD EDIT option.
- In the XUMF FORUM entry in the HL LOGICAL LINK file (#870), verify the correct TCP/IP ADDRESS—contact the REDACTED mail group to get the appropriate TCP/IP address.
- In the XUMF TEST entry in the HL LOGICAL LINK file (#870), verify the correct TCP/IP ADDRESS—contact REDACTED mail group to get the appropriate TCP/IP address.
- Ping (i.e., HL PING) the XUMF FORUM link to make sure it is up.
- After editing your data, verify that the XUMF FORUM link is up. Use the Start/Stop Links option [HL START] if your updates are waiting in the queue.

Edit any of the following fields in the INSTITUTION file (#4) as necessary (for guidelines on editing these fields, please refer to the "Guidelines" topic and Table 2-1 that follow):

- NAME (#.01)
- STATE (#.02)
- PARENT OF ASSOCIATION (#1)
- Address Information:
 - ST. ADDR. 1 (MAILING) field (#4.01)
 - ST. ADDR. 2 (MAILING) field (#4.02)
 - CITY (MAILING) field (#4.03)
 - STATE (MAILING) field (#4.04)
 - ZIP (MAILING) field (#4.05)
 - STREET ADDR. 1 field (#1.01)
 - STREET ADDR. 2 field (#1.02)
 - CITY field (#1.03)
 - STATE field (#.02)
 - ZIP field (#1.04)
- FACILITY TYPE (#13)
- ASSOCIATIONS Multiple (#14)—VISN association type
- AGENCY CODE (#95)
- OFFICIAL VA NAME (#100)
- INACTIVE FACILITY FLAG (#101)

Guidelines

General guidelines that should be used by Automated Data Processing Application Coordinators (ADPACs) and/or Information Resource Management (IRM) personnel when updating the following key fields/information in the INSTITUTION file (#4) are provided in Table 2-1 (listed in field number order):



NOTE: If any of these procedures/guidelines are unclear or you have specific issues/questions, do any of the following:

- Send a MailMan message to the XUMF INSTITUTION mail group on FORUM.
- Log a Remedy ticket.
 - REDACTED

Field (Number)	Guidelines				
NAME (#.01)	Must be 30 characters or less.				
	Make it meaningful:				
	 City + [","State] + Facility Type (e.g., Albany, NY VAMC; Albany, GA CBOC). 				
	 State is optional. It is used to uniquely identify facilities with like named cities. 				
	Don't start NAME with the Facility Type.				
	 Avoid using names that would only identify the site locally and not across the country (e.g., GV Sonny Montgomery; WM S Middleton). These types of names should be noted in the OFFICIAL VA NAME field (#100) instead. 				
	Enter a name that makes the most sense for your facility. If your users are trained to identify a facility by its HCS name, then continue to use that same name. This applies to all your entries. SDS wants to keep site impact to a minimum. The data belongs to your facility. Our goal is to standardize VHA-wide data to include your site data.				
	Make it unique:				
	 Avoid multiple entries with the same name (e.g., rename Washington to Washington VAMC). 				
	 The Standard Data Service (SDS) team (or other responsible entity) will edit non-VHA entries to ensure uniqueness with like- named entries. 				
STATE (#.02)	A state is required in the STATE FIELD (#.02).				
Address Fields	Enter address information for both a mailing and physical address for every facility associated with the primary facility, VAMC, HCS, and/or VISN for which you have responsibility:				
	Mailing Address:				
	- ST. ADDR. 1 (MAILING) field (#4.01)				
	(optional) ST. ADDR. 2 (MAILING) field (#4.02)				
	- CITY (MAILING) field (#4.03)				
	- STATE (MAILING) field (#4.04)				
	ZIP (MAILING) field (#4.05)				
	Physical Address:				
	- STREET ADDR. 1 field (#1.01)				
	- (optional) STREET ADDR. 2 field (#1.02)				
	- CITY field (#1.03)				
	- STATE field (#.02)				
FACILITY TYPE	- ZIP field (#1.04)				
(#13)	Select the correct Facility Type.				

Field (Number)	Guidelines					
	 Medical Centers, Medical Centers and Regional Offices, and Regional Offices-Outpatient Clinics should have one of the following Facility types: 					
	VAMC					
	M&ROC					
	RO-OC					
		Child facilities (relative to a medical center) should have one of the following Facility Types:				
	CBOC	COMMUNITY BASED OUTPATIENT CLINIC				
	CIVH	CIVILIAN HOSPITAL				
	CMOP	CONSOLIDATED MAIL OUTPATIENT PHARMACY				
	DOM	DOMICILIARY				
	DENT	DENTAL CLINIC				
	DOD	DEPARTMENT OF DEFENSE				
	M&ROC	MEDICAL AND REGIONAL OFFFICE CENTER				
	MORC	MOBILE OUTREACH CLINIC				
	NHC	NURSING HOME CARE				
	OPC	OUTPATIENT CLINIC				
	ORC	OUTREACH CLINIC				
	OTHER	OTHER				
	PHARM	PHARMACY				
	PHS	PUBLIC HEALTH SERVICE HOSPITAL				
	PRRTP	PSYCHOLOGICAL RESIDENTIAL REHAB TREATMNT PRG				
	SARRTP	SUBSTANCE ABUSE REHAB TREATMENT PROGRAM				
	STDM	STATE DOMICILIARY				
	STHH	STATE HH				
	STNB	STATE NURSING BEDS				
	SVH	STATE VETERANS HOME				
	USAF	US AIR FORCE HOSPITAL				
	USAH	US ARMY HOSPITAL				
	USCG	US COAST GUARD HOSPITAL				
	USMC	US MARINE CORP HOSPITAL				
	USNH	US NAVAL HOSPITAL				
	VAMC	VA MEDICAL CENTER				
	VANPH	NEURAL PSYCHIATRIC HOSPITAL				
	MailMan mess FORUM. Plea Type will be a	require a Facility Type that is not listed, send a sage to the XUMF INSTITUTION mail group on se do <i>not</i> take any other actions. The required Facility ctivated using the Master File Server (MFS) his will keep all VistA instances standard.				

Field (Number)	Guidelines				
ASSOCIATIONS Multiple (#14)	VISN Information—PARENT OF ASSOCIATION field (#1) of the ASSOCIATIONS multiple (#14). ASSOCIATIONS (#.01) type "VISN".				
	Inactive facilities should be NULL.				
	Only treating facilities should have a VISN.				
	All active treating facilities must have a VISN.				
	The deliver meaning recommend in an extra distribution in a contract of the co				
	Parent Facility Information—PARENT OF ASSOCIATION field (#1) of the ASSOCIATIONS multiple (#14). ASSOCIATIONS (#.01) type "PARENT FACILITY".				
	Child facilities should point to the administrative parent—your CBOC, NHC, OPC, MORC, etc, points to its parent VAMC or "division."				
	NOTE: If the child facility is a shared facility, then point to the appropriate HCS if applicable. If the facility is a special case (e.g., an unnamed multi-divisional aggregate), then send a MailMan message to the XUMF INSTITUTION mail group on FORUM for processing.				
	The "division" (VAMC) points to its immediate parent, one of the following:				
	VA GREATER LOS ANGELES (691) VA HEARTLAND-EAST VISN15 (657) VA HEARTLAND-WEST VISN15 (589) VA CHICAGO HSC (537) CENTRAL PLAINS NETWORK (636) MONTANA HCS (436) VA PACIFIC ISLANDS HCS (459) NEW MEXICO HCS (501) AMARILLO HCS (504) MARYLAND HCS (512) WEST TEXAS HCS (519) BOSTON HCS (523) UPSTATE NEW YORK HCS (528) NORTH TEXAS HCS (549)				
	EASTERN COLORADO HCS (554) NEW JERSEY HCS (561) BLACK HILLS HCS (568) CENTRAL CALIFORNIA HCS (570) N FLORIDA/S GEORGIA HCS (573) GREATER NEBRASKA HCS (597) CENTRAL ARKANSAS HCS (598) LONG BEACH HCS (600)				
	CENTRAL ALABAMA HCS (619) HUDSON VALLEY HCS VAMC (620)				

Field (Number)	Guidelines			
	TENNESSEE VALLEY HCS (626)			
	PALO ALTO HCS (640)			
	PITTSBURGH HCS (646)			
	ROSEBURG HCS (653)			
	SIERRA NEVADA HCS (654)			
	SALT LAKE CITY HCS (660)			
	PUGET SOUND HCS (663)			
	SAN DIEGO HCS (664)			
	SOUTH TEXAS HCS (671)			
	CENTRAL TEXAS HCS (674)			
	EASTERN KANSAS HCS (677)			
	CONNECTICUT HCS (689)			
	EL PASO VA HCS (756)			
	NEW YORK HHS (630)			
	VISN 1			
	VISN 2			
	VISN 3			
	VISN 4			
	VISN 5			
	VISN 6			
	VISN 7			
	VISN 7 VISN 7			
	VISN 7			
	VISN 7			
	VISN 12			
	VISN 13			
	VISN 14			
	VISN 15			
	VISN 16			
	VISN 17			
	VISN 18			
	VISN 19			
	VISN 20			
	VISN 21			
	VISN 22			
AGENCY CODE (#95)	 VISN 23 V—If Facility Type is Department of Veterans Affairs (VA)-related, then AGENCY CODE should be VA ("V"). 			
(,	AF—If Facility Type is USAF, then AGENCY CODE should be AIR FORCE ("AF").			
	I—If Facility Type is INDIAN HEALTH SERVICE (IHS), then AGENCY CODE should be IHS ("I").			

Field (Number)	Guidelines			
	ARMY—If Facility Type is USAH, then AGENCY CODE should be "ARMY".			
	N—If Facility Type is USNH, then AGENCY CODE should be NAVY ("N").			
	O—Otherwise AGENCY CODE should be OTHER ("O").			
	E—If Facility Type is Electronic Health Record (EHR), then AGENCY CODE should be EHR ("E"). This code added with Kernel Patch XU*8.0*394.			
	USCG—If Facility Type is United States Coast Guard (USCG), then AGENCY CODE should be COAST GUARD ("USCG"). This code added with Kernel Patch XU*8.0*394.			
OFFICIAL VA NAME (#100)	The full name of the facility (i.e., 80 characters or less). For example, "VA Healthcare Network Upstate New York HCS-Buffalo Division" for 528 - Buffalo, NY VAMC.			
	If no official name exists, or you are not sure, enter the same value as the NAME field (#.01). It can be updated later, if necessary.			
INACTIVE FACILITY FLAG (#101)	If the institution/facility is inactive, then set the INACTIVE FACILITY FLAG field (#101).			
	The Inactive facility NAME should begin with "ZZ".			
	The VISN and PARENT FACILITY associations should be NULL.			
	If the facility you wish to inactivate/edit has a Station Number that does not begin with the same first three digits as your current "division"—the division you are logged into—then you <i>must</i> log in under the old Station Number "division" to be able to edit it or its children.			
	You must have a pointer in the DIVISION multiple of the NEW PERSON file (#200) in order to log into a division.			
	If your site has installed Kernel Patch XU*8.0*287, then the person assigning the division must have the XUMGR security key to override the input transform to assign an inactive facility.			

Table 2-1. Local field edit guidelines (Kernel Patch XU*8.0*335)

Add/Modify Local Institution Data

The Local Site Institution Master File Administrators will continue to use the Institution Edit option [XU-INSTITUTION-E] on the Kernel Management Menu [XUKERNEL] in order to add or modify *local* data entries (non-*national* data entries) in the INSTITUTION file (#4) at their sites.

Kernel Patch XU*8.0*209 prohibits local sites from directly adding, deleting, or editing certain fields in *national* data entries in the INSTITUTION file (#4):

- National Data Entries—Entries in the INSTITUTION file (#4) that have an assigned STATION NUMBER (#99) and a have a STATUS (#11) set to "National." Only the Institution Master File (IMF) on FORUM originates the *national* entries that are automatically disseminated to the field via the Master File Server (MFS). Only the FORUM Institution Master File Administrators have access to the FORUM IMF.
- Local Data Entries—Entries in the INSTITUTION file (#4) that do *not* have an assigned STATION NUMBER (#99) and a STATUS (#11) set to "Local." All other fields (e.g., NAME [#.01]), however, are available for editing by the sites to enter non-*national* Institutions into their local INSTITUTION files (#4).

Local Sites Step-by-Step Procedures—Add/Modify Local Institution Data

The following are the step-by-step procedures to add or modify *Local* data entries in a local site's INSTITUTION file (#4):

- **1.** Log on to the system.
- 2. Navigate to the **Kernel Management Menu [XUKERNEL]**, under the Operations Management menu [XUSITEMGR], as shown in Figure 2-30:

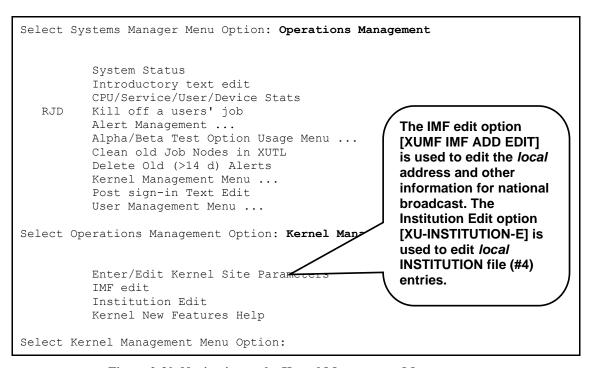


Figure 2-30. Navigating to the Kernel Management Menu

3. Kernel Patch XU*8.0*217 introduced the IMF address edit option and Kernel Patch XU*8.0*335 replaced this option as the IMF edit option. [XUMF IMF ADD EDIT]. This option is locked with the XUMF INSTITUTION security key. It allows sites to locally edit their address information and trigger a Health Level Seven (HL7) message to the Institution Master File (IMF.) A handler at the IMF server updates the master file and broadcasts the updated information to all subscriber medical centers/links. The Master File Server (MFS) mechanism handler at each medical center/site updates the local INSTITUTION file (#4) with the updated Institution data. A MailMan message notifies the XUMF INSTITUTION mail group about the updates (displaying old and new values for the affected entry), or an error message is sent to the XUMF SERVER mail group if there was a problem.



REF: For a list of new address fields added/modified with Kernel Patch XU*8.0*217, please refer to the "Kernel Patch XU*8.0*217" topic in Chapter 1, "Introduction." in this manual.

a. Edit Address

Choose the IMF edit option [XUMF IMF ADD EDIT] to update both the physical and mailing address information for your medical center and associated facilities (all your divisions and clinics.), as shown in Figure 2-31:

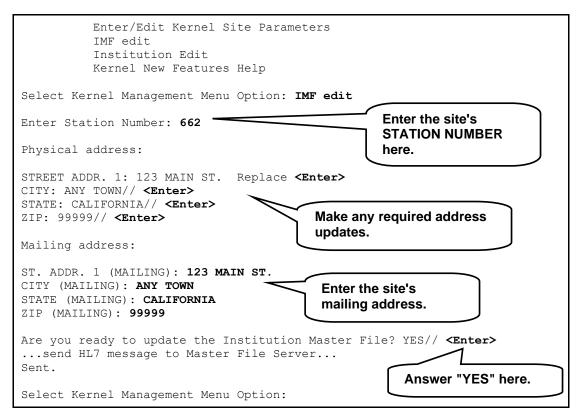


Figure 2-31. Running the IMF edit option

Answer "YES" at the "Are you ready to update the Institution Master File? YES//" prompt.

b. (Optional) Verify Address Updates.

Log on to FORUM and use the Institution file inquire option on the DBA menu to verify that the entry updated correctly.

4. Choose the Institution Edit option [XU-INSTITUTION-E], as shown in Figure 2-32:

Enter/Edit Kernel Site Parameters
IMF edit
Institution Edit
Kernel New Features Help

Select Kernel Management Menu Option: Institution Edit
Select INSTITUTION NAME:

Figure 2-32. Choosing the Institution Edit option

5. Enter a new Institution NAME (see Step #5a) or choose an existing Local entry for modifications (see Step #5b).



NOTE: Local entries can use the same name that is found in a national entry. However, sites should be aware that identical names in both a national and a local entry might cause confusion at the local level (e.g., when running local reports based on the Institution Name).

a. Adding a New Local Entry.

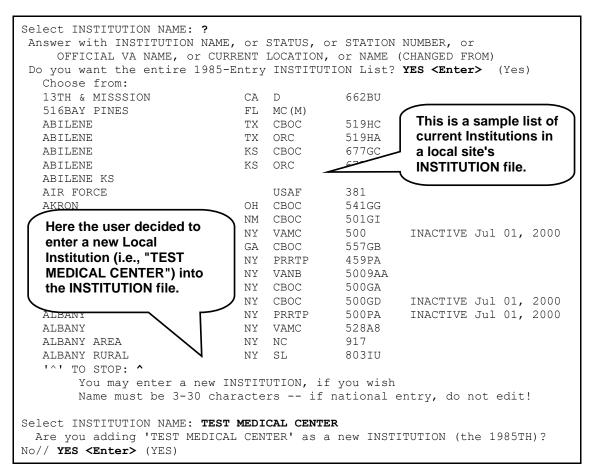


Figure 2-33. Entering a new local Institution into the local site's INSTITUTION file

In the example in Figure 2-33, the user first entered a single question mark ("?") at the "Select INSTITUTION NAME:" prompt and then answered "YES" at the "Do you want the entire 1985-Entry INSTITUTION List?" prompt in order to see a list of current Institutions in the local INSTITUTION file.

In Figure 2-33, the user chose to enter a new *Local* Institution by entering "**TEST MEDICAL CENTER**" (i.e., a new Institution NAME) at the "Select INSTITUTION NAME:" prompt. The user answered "**YES**" at the "Are you adding 'TEST MEDICAL CENTER' as a new INSTITUTION (the 1985TH)? No//" prompt to confirm the new entry.

After entering the new NAME, the user was automatically placed into a ScreenMan form, as shown in Figure 2-34:

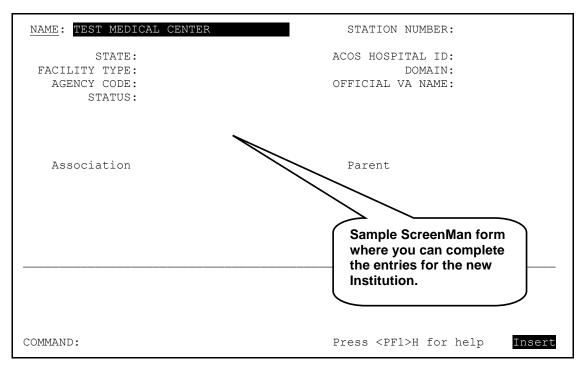


Figure 2-34. ScreenMan form showing the new "TEST MEDICAL CENTER" Institution

At this point, only the NAME field (#.01) has been completed. The user can now enter other required information about the new *Local* Institution (see Step #5).

If users enter only a new Institution NAME and then try to save their entries without making any other field entries, the software returns the error message displayed in Figure 2-35:



Figure 2-35. Sample error display screen

b. Modifying an Existing Entry.

If the user had entered an existing *Local* Institution NAME entry at the "Select INSTITUTION NAME:" prompt (e.g., 516BAY PINES, from the sample list of existing Institution NAMES in Figure 2-33), the software would have opened a ScreenMan form similar to the form in Figure 2-36:

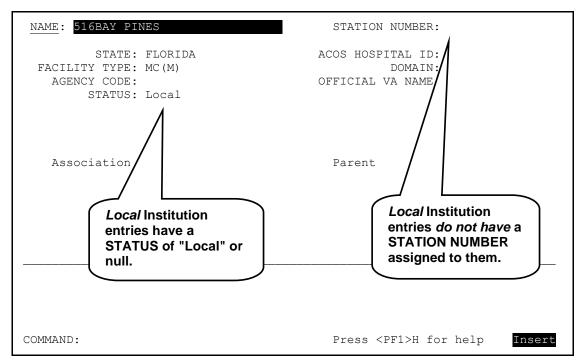


Figure 2-36. Sample ScreenMan form of an existing local Institution entry

Local sites *can* edit any of the following fields on a *Local* entry in the local site's INSTITUTION file (#4) while using the Institution Edit option [XU-INSTITUTION-E]. The following fields are listed in field number order:

• NAME (#.01, only on initial entry of a new Institution)



NOTE: Local entries can use the same name that is found in a national entry. However, sites should be aware that identical names in both a national and a local entry might cause confusion at the local level (e.g., when running local reports based on the Institution Name).

- STATE (#.02)
- STATUS (#11, valid value is "Local")
- FACILITY TYPE (#13)

- ASSOCIATIONS Multiple (#14)
 - ASSOCIATIONS (#.01)
 - PARENT OF ASSOCIATION (#1)



NOTE: Kernel Patch XU*8.0*294 prevents the adding of a VISN or PARENT FACILITY association to an Institution entry that does not have a corresponding PARENT OF ASSOCIATION.

Kernel Patch XU*8.0*335 pointed all child facilities to their administrative parents. The parent, or primary facility, points to its parent (HCS or VISN). The HCS entries point to a VISN entry. All parent relationships eventually resolve to a VISN.

- ACOS HOSPITAL ID (#51)
- DOMAIN (#60))
- AGENCY CODE (#95)
- OFFICIAL VA NAME (#100)

Local sites *cannot* edit the following field on a *Local* entry in the local site's INSTITUTION file (#4) while using the Institution Edit option [XU-INSTITUTION-E]:

• STATION NUMBER (#99)

If the user had entered an existing *National* Institution name entry at the "Select INSTITUTION NAME:" prompt (e.g., 13TH & MISSION from the sample list of existing Institution NAMES in Figure 2-33), the software would have opened a ScreenMan form similar to the form in Figure 2-37:

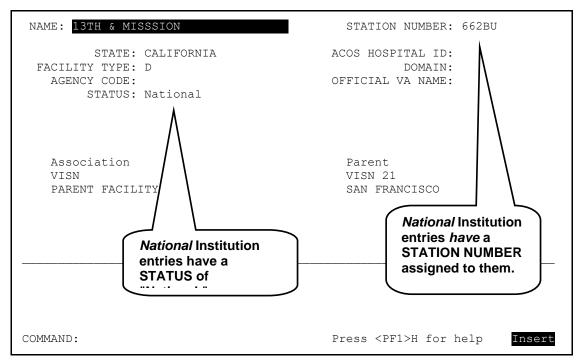


Figure 2-37. Sample ScreenMan form of an existing national Institution entry

Local sites are *not permitted* to edit any of the following fields on a *National* entry in the local site's INSTITUTION file while using the Institution Edit option [XU-INSTITUTION-E]. The following fields are listed in field number order:

- NAME (#.01)
- STATE (#.02)
- STATUS (#11)
- FACILITY TYPE (#13)
- STATION NUMBER (#99)
- OFFICIAL VA NAME (#100)

c. Deleting an Existing Entry.

To delete a *Local* entry from the INSTITUTION file (#4), enter an at-sign (i.e., "@") in the NAME field (#.01), as shown in Figure 2-38:

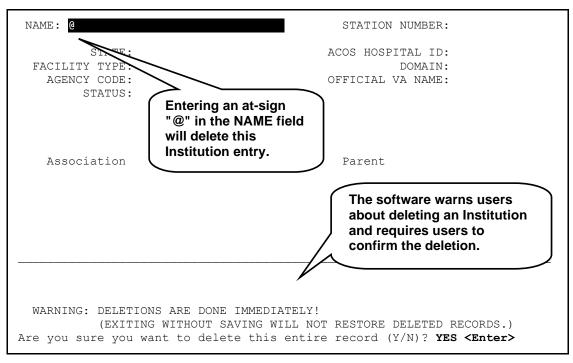


Figure 2-38. Deleting a Local Institution

The software presents the following warning:

WARNING: DELETIONS ARE DONE IMMEDIATELY!

(EXITING WITHOUT SAVING WILL NOT RESTORE DELETED RECORDS.)



CAUTION: It is *not* recommended that users delete an INSTITUTION file entry *unless* it was just immediately created in error.

After the user confirmed the deletion by entering "**YES**" at the "Are you sure you want to delete this entire record (Y/N)?" prompt, the ScreenMan form in Figure 2-39 was displayed:

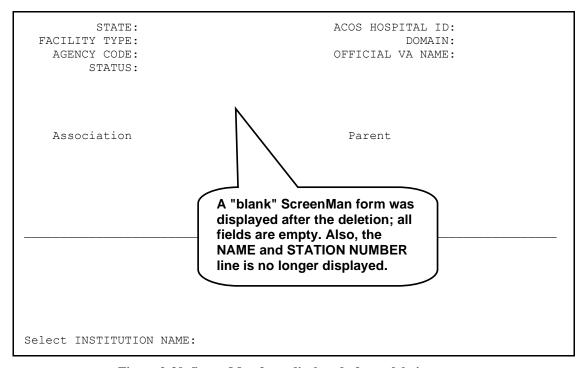


Figure 2-39. ScreenMan form displayed after a deletion

- **6.** Add/Modify the following fields displayed in the ScreenMan form for *Local* entries (listed in field number order):
 - NAME (#.01, only on the initial entry of a new Institution)
 - STATE (#.02)
 - STATUS (#11, valid value is "Local")
 - FACILITY TYPE (#13)

- Ð
- **REF:** For a list of TYPEs and their acronym definitions, please refer to "Appendix B—Facility Type Acronyms" in this manual.
- ASSOCIATIONS Multiple (#14)
 - ASSOCIATIONS (#.01)
 - PARENT OF ASSOCIATION (#1)
 - 0

NOTE: Kernel Patch XU*8.0*294 prevents the adding of a VISN or PARENT FACILITY association to an Institution entry that does not have a corresponding PARENT OF ASSOCIATION.

Kernel Patch XU*8.0*335 pointed all child facilities to their administrative parent. The parent, or primary facility, points to its parent (HCS or VISN). The HCS entries point to a VISN entry. All parent relationships eventually resolve to a VISN.

- ACOS HOSPITAL ID (#51)
- DOMAIN (#60)
- AGENCY CODE (#95)
- OFFICIAL VA NAME (#100)

The software *prevents* users from entering or modifying the following fields of a record in the local INSTITUTION file with a STATUS field set to "National." The following fields are listed in field number order:

- NAME (#.01)
- STATE (#.02)
- STATUS (#11)
- FACILITY TYPE (#13)
- STATION NUMBER (#99)
- OFFICIAL VA NAME (#100)

In the example in Figure 2-40, the user tried to enter a STATION NUMBER for a *Local* entry, which is *not* allowed:

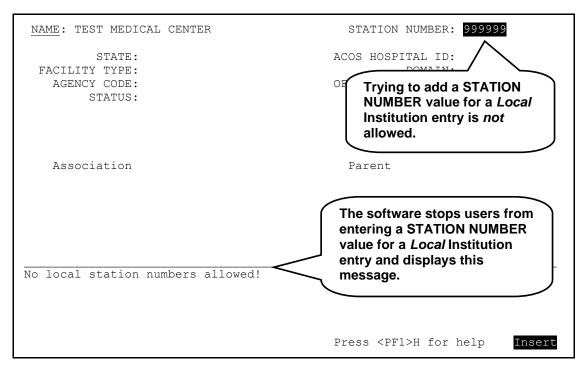


Figure 2-40. Trying to enter a STATION NUMBER field in a local Institution entry

In the example in Figure 2-40, after the user tried to enter *Local* STATION NUMBER "**999999**" at the "STATION NUMBER:" prompt in the ScreenMan form, the software displayed the following message:

No local station numbers allowed!

In the example in Figure 2-41, the user tried to enter "National" as the STATUS; however, this is *not* allowed and the Help for that field was automatically generated:

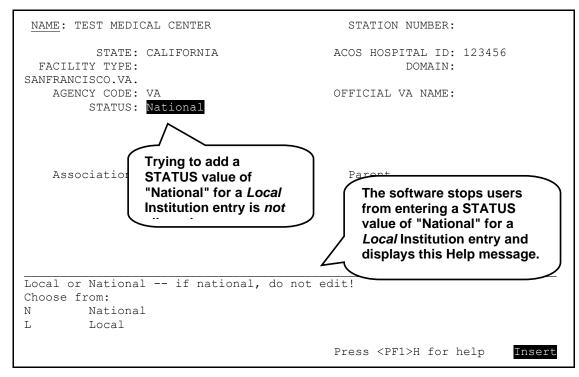


Figure 2-41. Trying to enter "National" in the STATUS field in a local Institution entry

In the example in Figure 2-41, after the user tried to enter "**National**" at the "STATUS:" prompt in the ScreenMan form, the software displayed the following Help message:

```
Local or National -- if national, do not edit! Choose from:  N \qquad \qquad \text{National} \\ L \qquad \qquad \text{Local}
```



CAUTION: Even though "National" is shown in the list of choices, users can enter only "Local" as a STATUS for *Local* entries!

In the example in Figure 2-42, the user tried to enter an invalid FACILITY TYPE for a *Local* entry, which automatically generated the Help for that field:

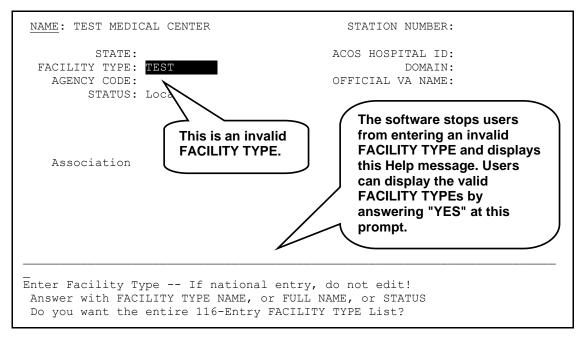


Figure 2-42. Entering an invalid FACILITY TYPE in a local Institution entry

In the example in Figure 2-42, after the user tried to enter invalid FACILITY TYPE "**TEST**" at the "FACILITY TYPE:" prompt in the ScreenMan form, the software displayed the following Help message:

Enter Facility Type -- If national entry, do not edit!
Answer with FACILITY TYPE NAME, or FULL NAME, or STATUS



REF: For a list of TYPEs and their acronym definitions, please refer to "Appendix B—Facility Type Acronyms" in this manual.

After the user entered a valid FACILITY TYPE and values for the other fields to be populated (i.e., STATE, ACOS HOSPITAL ID, DOMAIN, AGENCY CODE, and OFFICIAL VA NAME), the final ScreenMan form looked like the form shown in Figure 2-43:

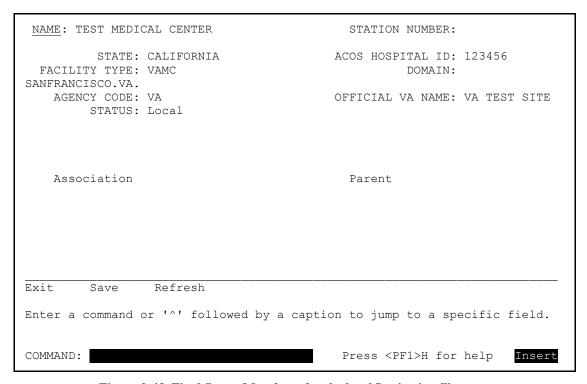


Figure 2-43. Final ScreenMan form for the local Institution file entry

At this point, all of the edits/updates were completed, so the user was ready to save the data and exit the Institution file entry.

7. When all of the edits/updates are completed, log off of the system.

Maintenance & Troubleshooting

Kernel Patch XU*8.0*209 created the XUMF INSTITUTION mail group at each site. The Local Site Institution Master File Administrators at a site are responsible for populating (i.e., Mail Group Coordinator), maintaining, and monitoring this mail group.

The XUMF INSTITUTION mail group receives bulletins sent via VistA's MailMan software regarding updates to the local site's INSTITUTION file (#4). The mail group at the site is notified when the local INSTITUTION file has been automatically updated with *national* entries from the Institution Master File (IMF) on FORUM via the Master File Server (MFS). The mail group should be populated with the appropriate personnel located at the site (e.g., Local Site Institution Master File Administrator[s], IRM Chief, ADPAC[s], etc.).

Kernel Patch XU*8.0*299 created the XUMF ERROR mail group at each site. The local site is responsible for populating (i.e., Mail Group Coordinator), maintaining, and monitoring this mail group.

Another duty of the Local Site Institution Master File Administrators is to serve as the point of contact that monitors and troubleshoots any problems with the INSTITUTION and FACILITY TYPE master files located at the site.

Local Sites Step-by-Step Procedures—Maintenance and Troubleshooting

The following are the suggested step-by-step procedures for monitoring and troubleshooting the master files at the site:

- 1. Monitor for Messages sent to the XUMF INSTITUTION and XUMF ERROR mail groups—When a message is received, the Local Site Institution Master File Administrators should do one or more of the following:
 - **a.** Verify that the master files were successfully updated based on the information contained in the message.
 - **b.** Process any error messages that are sent to the mail groups.
 - Contact the FORUM Institution Master File Administrators, discuss the problem, and devise a solution.
 - After the problem has been resolved, contact the FORUM Institution Master File Administrators to verify that the master file has been successfully updated.
- 2. Monitor any VistA HL7 error messages regarding transmission errors.
- **3.** Process any HL7-type error messages.
 - **a.** Try to resend an unsent HL7 message.
 - **b.** If the problem persists, contact the VistA HL7 Team for assistance and advise the FORUM Institution Master File Administrators of the problem.
 - **c.** After the problem has been resolved, contact the FORUM Institution Master File Administrators to verify that the master file has been successfully updated.
- **4.** Return to Step #1.

3. FORUM (Production) IMF Administrator Duties

Introduction

The IFR-related software (i.e., Kernel Patch XU*8.0*206) requires that one or more FORUM Institution Master File (IMF) Administrators be assigned to maintain and update the *national* entries in the master files located on FORUM that are transmitted VHA-wide via the Master File Server (MFS). Initially, these administrators were members of the VHA Health Systems Design & Development's Infrastructure & Security Services (ISS) Team. The current FORUM IMF Administrators are assigned by Enterprise VistA Support (EVS). Only the FORUM Institution Master File Administrators hold the XUMF INSTITUTION security key that allows them to edit the master files on FORUM.

The following option is available only to the FORUM Institution Master File Administrators of the INSTITUTION (#4) master file located on FORUM:

Institution Master File Edit Option [XUMF FORUM INSTITUTION]—Edit *national* entries in the INSTITUTION file (#4) located on FORUM.

The following duties are the responsibility of the FORUM Institution Master File Administrators of the INSTITUTION (#4) and FACILITY TYPE (#4.1) master files located on FORUM:

- Process the FORUM master file change notifications.
- Troubleshoot problems with the master files and the Master File Server (MFS) software.

This section provides the step-by-step procedures and general information describing the day-to-day duties and maintenance requirements of the master files on FORUM, as performed by the FORUM Institution Master File Administrators.

Processing Master Files Change Notifications

The primary duty of the FORUM Institution Master File Administrators is to process changes to the Institution Master file (IMF) and Facility Type Master File (FMF) on FORUM.

FORUM Step-By-Step Procedures—Processing Master File Changes

The following are the step-by-step procedures required for processing the master file change notifications on FORUM:

- 1. Monitor Microsoft Exchange for e-mail notifications from 045A4 regarding changes to the Institution Master File (IMF) and Facility Type Master File (FMF) on FORUM.
- 2. When a master file change notification is received, log on to FORUM.

- **3.** Choose the appropriate master file edit option:
 - **a.** Edits in the INSTITUTION file (#4) on FORUM—Use the Institution Master File Edit option [XUMF FORUM INSTITUTION] to edit the Institution Master File (IMF) on FORUM.
 - **b.** Edits in the FACILITY TYPE file (#4.1) on FORUM—Use VA FileMan to edit the Facility Type Master File (FMF) on FORUM.

In the example in Figure 3-1, the user chose the Institution Master File Edit option [XUMF FORUM INSTITUTION] in order to enter a new STATION NUMBER into the FORUM Institution Master File (IMF):

```
Select OPTION NAME: XUMF

1 XUMF FORUM INSTITUTION Institution Master File Edit
2 XUMF INSTITUTION Institution File Query / Update
CHOOSE 1-2: 1 <Enter> XUMF FORUM INSTITUTION Institution Master File Edit
Institution Master File Edit
Enter Station Number:
```

Figure 3-1. Initial dialogue when using the Institution Master File Edit option [XUMF FORUM INSTITUTION]

As Figure 3-1 shows, to add a new STATION NUMBER (#99) and its associated field values in the INSTITUTION file (#4) on FORUM, the user chose the XUMF FORUM INSTITUTION option (i.e., Institution Master File Edit) by entering "1" at the "CHOOSE 1-2:" prompt when given a list of XUMF options from which to choose.

- **4.** Add/Update the specified fields for the file in question for the following scenarios.
 - Adding a new INSTITUTION file (#4) Station Number and associated field values.
 - Editing an existing INSTITUTION file (#4) Station Number and associated field values.
 - Adding a new FACILITY TYPE file (#4.1) Facility Type and associated field values.
 - Editing an existing FACILITY TYPE file (#4.1) Facility Type and associated field values.

a. In the example in Figure 3-2, the user chose to add a new STATION NUMBER (#99) and its associated fields to the INSTITUTION file (#4) on FORUM:

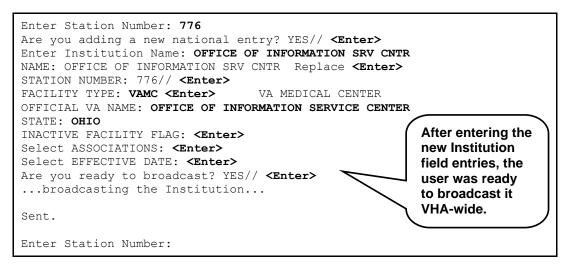


Figure 3-2. Adding a new Station Number to the FORUM IMF

As you can see in Figure 3-1, the user entered a new Institution by entering values for the following fields (listed in the order of entry):

• **STATION NUMBER** (#99)—The user entered a new STATION NUMBER of "776" at the "Enter Station Number:" prompt.

The user pressed the **<Enter>** key to accept the default of "YES" at the "Are you adding a new national entry? YES//" prompt.

 NAME (#.01)—The user entered a new NAME of "OFFICE OF INFORMATION SRV CNTR" that is associated with the new STATION NUMBER at the "Enter Institution Name:" prompt.

The software echoed the NAME field value back to make sure the user had entered it correctly. To change the value at that point, the user would have entered any corrections at the "Replace" prompt. Since the entry was correct, the user pressed the **Enter>** key at the "NAME: OFFICE OF INFORMATION SRV CNTR Replace" prompt to continue to the next field.

The software then echoed the STATION NUMBER field value back to make sure the user had entered it correctly. Since the entry was correct, the user pressed the **Enter>** key at the "STATION NUMBER: 776//" prompt to continue to the next field

 FACILITY TYPE (#13)—The user entered "VAMC" as the FACILITY TYPE that is associated with the new STATION NUMBER at the "FACILITY TYPE:" prompt.



NOTE: The FACILITY TYPE field value entered *must* match a valid FACILITY TYPE entry in the FACILITY TYPE File (#4.1).

- **OFFICIAL VA NAME** (#100)—The user entered a new OFFICIAL VA NAME of "**OFFICE OF INFORMATION SERVICE CENTER**" that is associated with the new STATION NUMBER at the "OFFICIAL VA NAME:" prompt.
- STATE (#.02)—The user entered "OHIO" as the STATE that is associated with the new STATION NUMBER at the "STATE:" prompt.
- **INACTIVE FACILITY FLAG** (#101)—Since the user did not want to enter an INACTIVE FACILITY FLAG, he/she pressed the **<Enter>** key at the "INACTIVE FACILITY FLAG:" prompt to continue to the next field.
- **ASSOCIATIONS Multiple** (#14)—Since the user did not want to enter any ASSOCIATIONS, he/she pressed the **<Enter>** key at the "Select ASSOCIATIONS:" prompt to continue to the next field.
 - Ð

NOTE: The following are subfields in the ASSOCIATIONS Multiple field that can be edited using this option:

- ASSOCIATIONS (#.01)
- PARENT OF ASSOCIATION (#1)
- NOTE: Kernel Patch XU*8.0*294 prevents the adding of a VISN or PARENT FACILITY association to an Institution entry that does not have a corresponding PARENT OF ASSOCIATION.

Kernel Patch XU*8.0*335 pointed all child facilities to their administrative parents. The parent, or primary facility, points to its parent (HCS or VISN). The HCS entries point to a VISN entry. All parent relationships eventually resolve to a VISN.

- HISTORY Multiple (#999):
 - EFFECTIVE DATE (#.01)—Since the user did not want to enter an EFFECTIVE DATE, he/she pressed the <Enter> key at the "Select EFFECTIVE DATE:" prompt to continue to the last step.

Finally, after all of the entries were completed, the user was ready to broadcast the new Institution entries VHA-wide by pressing the **Enter**> key to accept the default of "YES" at the "Are you ready to broadcast? YES//" prompt.

The software displayed the following message:

```
...broadcasting the Institution...
```

When the broadcast was complete, the following message was displayed:

Sent.



NOTE: Additions and modifications of national entries in the Institution Master File (IMF) on FORUM are broadcast one at a time.

b. In the example in Figure 3-3, the user chose to edit an existing STATION NUMBER (#99) and its associated field values in the INSTITUTION file on FORUM:

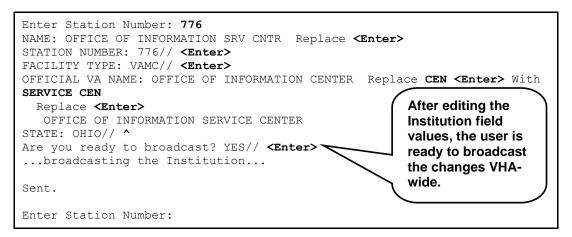


Figure 3-3. Editing an Existing Station Number in the FORUM IMF

As you can see from the example shown in Figure 3-3, the user wanted to modify the OFFICIAL VA NAME field (#100) value from "OFFICE OF INFORMATION CENTER" to "OFFICE OF INFORMATION SERVICE CENTER" for Station Number 776 that he/she had just entered in Step #4a (see Figure 3-2).

After entering **776** at the "Enter Station Number:" prompt, the user pressed the **<Enter>** key until he/she arrived at the "OFFICIAL VA NAME: OFFICE OF INFORMATION CENTER Replace" prompt.

To change only a portion of the name (i.e., "CENTER" to "SERVICE CENTER"), the user entered "CEN" at the "Replace" prompt and then entered "SERVICE CEN" at the "With" prompt.

The software confirmed the change by redisplaying the newly modified OFFICIAL VA NAME field (#100). Since the modified name was correct, the user pressed the **Enter**> key after the "Replace" prompt.

The user didn't want to make any more changes, so he/she entered a caret ("^") at the "STATE: OHIO//" prompt.

When all of the updates were completed, the user was ready to broadcast the updated Institution entries VHA-wide by pressing the **Enter**> key to accept the default of "YES" at the "Are you ready to broadcast? YES//" prompt.

The software displayed the following message:

```
...broadcasting the Institution...
```

When the broadcast was complete, the following message was displayed:

Sent.

- **NOTE:** Additions and modifications of national entries in the Institution Master File (IMF) on FORUM are broadcast one at a time.
- **5.** After an update is broadcasted, an HL7 MFN segment is generated. Figure 3-4 shows an example of an HL7 MFN segment for a newly added Station Number (see Step #4a):

```
DATE/TIME ENTERED: SEP 15, 2000@10:10:32

SERVER APPLICATION: XUMF MFN TRANSMISSION TYPE: OUTGOING

MESSAGE ID: 0126 PARENT MESSAGE: SEP 15, 2000@10:10:32

PRIORITY: IMMEDIATE RELATED EVENT PROTOCOL: XUMF MFN

MESSAGE TYPE: SINGLE MESSAGE

MESSAGE TEXT:

MFI^204^MFS^REP^20000915101032^20000915101032^NE

MFE^MUP^19000091^776~STATION NUMBER~D

ZIN^0FFICE OF INFORMATION SRV CNTR^776^National^VAMC~FACILITY TYPE~VA^OFFICE OF
INFORMATION SERVICE CENTER^OHIO^^^^^

STATUS: SUCCESSFULLY COMPLETED

DATE/TIME PROCESSED: SEP 15, 2000@10:10:36

NO. OF CHARACTERS IN MESSAGE: 204 NO. OF EVENTS IN MESSAGE: 1
```

Figure 3-4. Sample HL7 MFN segment information

A MailMan e-mail message is sent to the XUMF INSTITUTION mail group at all sites. Figure 3-5 shows an example of the e-mail for a newly added Station Number (see Step #4a):

Figure 3-5. Sample INSTITUTION file update message sent to the XUMF INSTITUTION mail group

- **6.** After all change notifications have been processed, log off of FORUM.
- **7.** Return to Step #1.

Troubleshooting

Another duty of the FORUM Institution Master File Administrators is to monitor and troubleshoot any problems with the Institution Master file (IMF) and Facility Type Master File (FMF) located at the sites and on FORUM. This includes troubleshooting of the Master File Server (MFS) software.

FORUM Step-By-Step Procedures—Troubleshooting

The following are the suggested step-by-step procedures for monitoring and troubleshooting the FORUM master files and the Master File Server (MFS) software:

- 1. Monitor the XUMF INSTITUTION and XUMF ERROR mail groups on FORUM—The FORUM Institution Master File Administrators should look for any error messages from sites that fail to successfully update their local master files.
- 2. Process any error messages sent to the XUMF INSTITUTION and XUMF ERROR mail groups on FORUM.
 - **a.** Try to resend an unsent message to the site in question.
 - **b.** If the problem persists, contact the Local Site Institution Master File Administrators at the site, discuss the problem, and devise a solution.
 - **c.** After the problem has been resolved, contact the Local Site Institution Master File Administrators at the site to verify that the master file has been successfully updated.
- **3.** Monitor any VistA HL7 error messages regarding transmission errors from FORUM to the sites.
- **4.** Process any HL7-type error messages.
 - **a.** Try to resend any unsent HL7 message.
 - **b.** If the problem persists, contact the VistA HL7 Team for assistance and advise the Local Site Institution Master File Administrators at the site of the problem.
 - **c.** After the problem has been resolved, contact the Local Site Institution Master File Administrators at the site to verify that the master file has been successfully updated.
- **5.** Return to Step #1.

II. Developer's Guide

This is the Developer's Guide section of this supplemental documentation for the Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206).

The intended audience for this section is Information Resource Management (IRM). However, it can also be helpful to others in Technical Service, the Program Office, Enterprise VistA Support (EVS), and Application Structure and Integration Services (ASIS).

Developer's Guide

4. Data Dictionary Modifications

Institution File Data Dictionary Modifications

Modified/Added Fields in the INSTITUTION File (#4)

The following fields were modified or added to the INSTITUTION File (#4:

NAME (#.01)

Kernel Patch XU*8.0*206 modified the NAME field (#.01) to prevent *national* entries from being edited locally.



NOTE: Local entries can use the same name that is found in a national entry. However, sites should be aware that identical names in both a national and a local entry might cause confusion at the local level (e.g., when running local reports based on the Institution Name).

STATE (#.02)

Kernel Patch XU*8.0*206 modified the STATE field (#.02) to prevent *national* entries from being edited locally. This field serves as a Write Identifier.

Kernel Patch XU*8.0*217 modified the STATE field (#.02) description in the INSTITUTION file (#4). It stores the State in which the institution is physically located.

STREET ADDR. 1 (#1.01)

Kernel Patch XU*8.0*217 modified the STREET ADDR. 1 field (#1.01) description in the INSTITUTION file (#4). This is the first line of the street address (*physical*) of the facility. The value *must* be 2-40 characters in length.

STREET ADDR. 2 (#1.02)

Kernel Patch XU*8.0*217 modified the STREET ADDR. 2 field (#1.02) description in the INSTITUTION file (#4). This is the second line of the street address (*physical*) of the facility. The value *must* be 2-40 characters in length.

CITY (#1.03)

Kernel Patch XU*8.0*217 modified the CITY field (#1.03) description in the INSTITUTION file (#4). It stores the City in which the facility is *physically* located. The value *must* be 2-40 characters in length.

ZIP (#1.04)

Kernel Patch XU*8.0*217 modified the ZIP field (#1.04) description in the INSTITUTION file (#4). It stores the postal ZIP code for the *physical* address of the facility (i.e., ZIP code or ZIP + 4).

ST. ADDR. 1 (MAILING) (#4.01)

Kernel Patch XU*8.0*217 added the ST. ADDR. 1 (MAILING) field (#4.01) to the INSTITUTION file (#4). This is the first line of the street address (*mailing*) of the facility. The value *must* be 2-40 characters in length.

ST. ADDR. 2 (MAILING) (#4.02)

Kernel Patch XU*8.0*217 added the ST. ADDR. 2 (MAILING) field (#4.02) to the INSTITUTION file (#4). This is the second line of the street address (*mailing*) of the facility. The value *must* be 2-40 characters in length.

CITY (MAILING) (#4.03)

Kernel Patch XU*8.0*217 added the CITY (MAILING) field (#4.03) to the INSTITUTION file (#4). It stores the City of the facility's *mailing* address. The value *must* be 2-40 characters in length.

STATE (MAILING) (#4.04)

Kernel Patch XU*8.0*217 added the STATE (MAILING) field (#4.04) to the INSTITUTION file (#4). It stores the State of the facility's *mailing* address. This field is a pointer to the STATE file (#5).

ZIP (MAILING) (#4.05)

Kernel Patch XU*8.0*217 added the ZIP (MAILING) field (#4.05) to the INSTITUTION file (#4). It stores the postal ZIP code for the *mailing* address of the facility (i.e., ZIP code or ZIP + 4).

STATUS (#11)

Kernel Patch XU*8.0*206 modified the STATUS field (#11). The Input Transform was modified to prevent setting of the STATUS field (#11) to National. Only the Cleanup Utilities of the local site's INSTITUTION file or the Master File Server (MFS) mechanism can flag *national* entries as "National." A site cannot create National entries or flag *local* entries as National. Also, since the INACTIVE FACILITY FLAG field (#101) flags Inactive entries, the current "INACTIVE" value for the STATUS field (#11) was removed from the SET OF CODES for this field. Another reason to remove INACTIVE from the SET OF CODES was due to the fact that an entry can be both INACTIVE and National (or Local for that matter). This field is required.

FACILITY TYPE (#13)

Kernel Patch XU*8.0*206 modified the FACILITY TYPE field (#13) to prevent *national* entries from being edited locally. This field serves as a Write Identifier.

Kernel Patch XU*8.0*335 (i.e., Healthe Vet cleanup) added an Input Transform to the FACILITY TYPE field (#13) field in the INSTITUTION file (#4) to prevent the selection of non-standard facility types from "national" INSTITUTION file (#4) entries.



NOTE: When updating the facility type of one of your facilities, if the facility type you need is not selectable and should be, send a MailMan message to the XUMF INSTITUTION mail group. Health Systems Implementation Training and Enterprise Support (HSITES) will review the request and make any necessary updates to the Master FACILITY TYPE file. This update will then be broadcast to all VistA instances.

The goal is to standardize both Institution and Facility Type data throughout the VHA. Please do *not* bypass the updating mechanism. Otherwise, it will defeat the standardization efforts, and cause your site to become out-of-sync with other medical centers. Subsequent patches and/or MFS updates will override these local modifications; this will invalidate the local measures and result in data synchronization issues between facilities and an endless cycle of updating and cleanups.

AGENCY CODE (#95)

Kernel Patch XU*8.0*261 added the AGENCY CODE field (#95) to the list of INSTITUTION file (#4) fields supported by the Master File Server (MFS) mechanism.

STATION NUMBER (#99)

Kernel Patch XU*8.0*206 modified the STATION NUMBER field (#99) to prevent it from being edited locally.



CAUTION: The STATION NUMBER field (#99) is reserved for national entries only!

It is maintained by the Master File Server (MFS) mechanism. The Information Management Service (045A4) assigns Station Numbers (i.e., a three-digit number plus any modifiers). This field *must* be from 3 to 7 characters in length and *must not* contain an embedded caret ("^"). This field serves as a Write Identifier.

OFFICIAL VA NAME (#100)

Kernel Patch XU*8.0*206 renamed the OFFICAL VA NAME field (#100) to OFFICIAL VA NAME. It also modified this field to prevent *national* entries from being edited locally. In addition, the OFFICIAL VA NAME field (#100) was increased from a maximum of 30 characters of FREE TEXT to 80 characters. This is to allow for the longer, new health care system names.

INACTIVE FACILITY FLAG (#101)

Kernel Patch XU*8.0*206 modified the INACTIVE FACILITY FLAG field (#101) to prevent *national* entries from being edited locally. Also, the SET OF CODES for this field was changed from "Y" (YES) to "1" (INACTIVE). This field is used to help identify inactive entries during a file lookup. This field, along with the EFFECTIVE DATE (#.01) in the HISTORY Multiple (#999), also serves as a Write Identifier.

HISTORY Multiple Field (#999) in the INSTITUTION File (#4)

Kernel Patch XU*8.0*206 added the HISTORY Multiple field (#999) to the INSTITUTION file (#4). With site integrations, Name changes, Station Number deactivations/activations, legacy Station Numbers, and new facilities, a need to return Institution time-sensitive (i.e., historical) information was identified. This historical information is stored in the HISTORY Multiple field (#999).

The HISTORY Multiple field (#999) is composed of the following fields:

• EFFECTIVE DATE (#.01)

The effective date related to the update (historical) event.

• NAME (CHANGED FROM) (#.02)

If the event was a NAME change, then this field holds the Field #.01 value *prior* to the edit that took place on the EFFECTIVE DATE (#.01, described previously).

• OFFICIAL VA NAME (CHANGED FROM) (#.03)

If the event was an OFFICIAL VA NAME change, then this field holds the Field #100 value *prior* to the edit that took place on the EFFECTIVE DATE (#.01, described previously).

• REALIGNED TO (#.05)

If the facility was realigned due to integration, or some other reorganization, and a new STATION NUMBER (#99) was assigned, then this field holds a pointer to the INSTITUTION file entry with the *new* STATION NUMBER for this facility.

• REALIGNED FROM (#.06)

If the facility was realigned due to integration, or some other reorganization, and a new STATION NUMBER (#99) was assigned, then this field holds a pointer to the INSTITUTION file entry with the *old* STATION NUMBER for this facility.

• DEACTIVATED FACILITY / STA # (#.07)

If the facility or STATION NUMBER (#99) was deactivated, then this flag is set to "1" for this EFFECTIVE DATE (#.01, described previously). A facility and/or STATION NUMBER can be deactivated and activated. An API uses this flag, together with the EFFECTIVE DATE (#.01, described previously), to determine the status of a facility/STATION NUMBER on a specific date.



REF: For more information on the API, please refer to the "F4^XUAF4(): Institution Data for a Station Number" topic in Chapter 5, "Application Program Interfaces (APIs)," in this manual.

• ACTIVATED FACILITY (#.08)

If the facility or STATION NUMBER (#99) is new or was activated, then this flag is set (i.e., it is set to "1") for this EFFECTIVE DATE (#.01, described previously). A facility and/or STATION NUMBER can be deactivated and then activated. An API uses this flag, together with the EFFECTIVE DATE (#.01), to determine the status of a facility/STATION NUMBER on a specific date.



REF: For more information on the API, please refer to the "F4^XUAF4(): Institution Data for a Station Number" topic in Chapter 5, "Application Program Interfaces (APIs)," in this manual.

IDENTIFIER (#9999)

Kernel Patch XU*8.0*218 added the IDENTIFIER Multiple field (#9999) to the INSTITUTION (#4) and FACILITY TYPE (#4.1) files.



NOTE: Kernel Patch XU*8.0*261 modified the cross-references on this field.

The IDENTIFIER Multiple field (#9999) is composed of the following fields:

• CODING SYSTEM (#.01)

This is a Free Text field. The Coding System entered *must* be 2-20 characters in length (e.g., DMIS). To see existing coding systems in the file:

```
>D CDSYS^XUAF4(.Y)
```

• ID (#.02)

This is a Free Text field. The ID entered *must* be 2-20 characters in length (e.g., 0037).

Write Identifiers

Four write identifiers are added with Kernel Patch XU*8.0*206, which replace the previous field identifiers. The XUMFPOST post-init routine deletes the previous field identifiers. The write identifiers are:

- STATE (#.02)
- FACILITY TYPE (#13)
- STATION NUMBER (#99)

- INACTIVE FACILITY FLAG (#101) with EFFECTIVE DATE (#.01 field of the HISTORY Multiple field [#999])
- **REF:** For more information on Write Identifiers, please refer to the "Write Identifiers" topic under the "Developer Tools" topic in the *VA FileMan Programmer Manual*.

Obsolete Fields

The XUMFPOST post-init removes the following obsolete (asterisked) fields from the INSTITUTION file:

- *OUTPUT HEADER (#.04)
- *STATION NAME (#7)
- *MAILMAN FLAG (#12)
- *OLD AMIS NUMBER (#77)
- *G&L HEADER (#10)
- *PACKAGE X-REF (#30) subfile

Facility Type File Data Dictionary Modifications

Modified/Added Fields in the FACILITY TYPE File (#4.1)

The following fields were modified or added to the FACILITY TYPE File (#4.1):

STATUS (#3)

Kernel Patch XU*8.0*335 added the STATUS field (#3) to the FACILITY TYPE file (#4.1). It is a SET OF CODES field that consists of the following codes:

- "N"—Flags "National" entries.
- "L"—Flags "Local" entries.

Data Dictionary Modifications

5. Application Program Interfaces (APIs)

This topic lists and describes the Kernel callable routines provided by the Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206). These calls are either Supported Reference Integration Agreements (IAs) or Controlled Subscription IAs.

- **Supported References**—Supported Reference APIs are open for use by any VistA application as defined by the IA. They have been recorded as a Supported Reference in the IA database on FORUM. It is not required that VistA application developers request an IA to use them.
- **Controlled Subscription References**—Controlled Subscription APIs contain attributes/functions that *must* be controlled in their use. They have been recorded as a Controlled subscription Reference in the IA database on FORUM. VistA application developers *must* request an IA to use them. Permission to use them is granted by the custodian package (i.e., Kernel) on a one-by-one basis.



REF: For a list of the Integration Agreements (IAs) related to IFR-related software, please refer to the "Integration Agreements (IA)" topic in the "External Relations" topic in Chapter 6, "Implementation and Maintenance," in this manual.

The IFR APIs are listed alphabetically by Entry Point below.

\$\$ACTIVE^XUAF4(): Institution Active Facility (True/False)

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function, given the Internal Entry Number (IEN) in the

INSTITUTION file (#4), returns the Boolean value for the question—is this an active facility? It checks to see if the INACTIVE FACILITY FLAG field (#101) is

not set.

Format \$\$ACTIVE^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns a Boolean value:

• True (non-zero)—Station Number is an active facility.

• False (zero)—Station Number is *not* an active facility. The INACTIVE FACILITY FLAG field (#101) has a value indicating it is inactive.

\$\$CIRN^XUAF4(): Institution CIRN-enabled Field Value

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the value of the CIRN-enabled field from the

INSTITUTION file (#4).

Format \$\$CIRN^XUAF4(inst[,value])

Input Parameters inst: (required) Institution lookup value, any of the following:

• Internal Entry Number (IEN), will have the `in front of it.

Station Number

Station Name

value: (optional) Restricted to use by CIRN. This input parameter allows

the setting of the field to a new value.

Output returns: Returns the CIRN-enabled field value.

\$\$ID^XUAF4(): Institution Identifier

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the Identifier (ID) of an INSTITUTION file (#4)

entry for a given Coding System and Internal Entry Number (IEN).

Format \$\$ID^XUAF4(cdsys,ien)

Input Parameters cdsys: (required) CDSYS is an existing CODING SYSTEM field (#.01)

in the IDENTIFIER Multiple field (#9999) of the INSTITUTION

file (#4). To see existing coding systems in the file:

>D CDSYS^XUAF4(.Y)

ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns the INSTITUITION file (#4) Identifier (ID) associated

with the given Coding System and IEN.

\$\$IDX^XUAF4(): Institution IEN (Using Coding System & ID)

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the Internal Entry Number (IEN) of an

INSTITUTION file (#4) entry for a given Coding System and Identifier (ID) pair.

Format \$\$IDX^XUAF4(cdsys,id)

Input Parameters cdsys: (required) CDSYS is an existing CODING SYSTEM field (#.01)

in the IDENTIFIER Multiple field (#9999) of the INSTITUTION

file (#4). To see existing coding systems in the file:

>D CDSYS^XUAF4(.Y)

id: (required) ID is the ID field (#.02) in the IDENTIFIER Multiple

field (#9999) of the INSTITUTION file (#4) that corresponds to the Coding System input (i.e., cdsys) as the first parameter.

Output returns: Returns the INSTITUTION file (#4) Internal Entry Number (IEN)

associated with the given coding system and Identifier (ID).

\$\$IEN^XUAF4(): IEN for Station Number

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the Internal Entry Number (IEN) of the entry for a

given STATION NUMBER field (#99) in the INSTITUTION file (#4).

Format \$\$IEN^XUAF4(sta)

Input Parameters sta: (required) Station Number.

Output returns: Returns:

• IEN—Internal Entry Number.

NULL—Error.

Example

>S X=\$\$IEN^XUAF4("528A5")

>**W** X

532

\$\$IEN^XUMF(): Institution IEN (Using IFN, Coding System, & ID)

Reference Type Supported

Category Institution File

IA # 3795

Description This extrinsic function returns the Internal Entry Number (IEN) for a given

Internal File Number (IFN), Coding System, and Identifier (ID).

Format \$\$IEN^XUMF(ifn,cdsys,id)

Input Parameters ifn: (required) Internal File Number (IFN).

cdsys: (required) Coding System.

id: (required) Identifier.

Output returns: Returns the Internal Entry Number (IEN) of the institution

requested.

\$\$LEGACY^XUAF4(): Institution Realigned/Legacy (True/False)

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function, given the STATION NUMBER field (#99) in the

INSTITUTION file (#4), returns the Boolean value for the question—has this

station number been realigned? Is it a legacy Station Number?

Format \$\$LEGACY^XUAF4(sta)

Input Parameters sta: (required) The STATION NUMBER field (#99) value in the

INSTITUTION file (#4) for the Station Number in question.

Output returns: Returns a Boolean value:

• True (non-zero)—Station Number has been realigned; it

is a legacy Station Number.

• False (zero)—Station Number has *not* been realigned; it is

not a legacy Station Number.

\$\$LKUP^XUAF4(): Institution Lookup

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the IEN or zero when doing a lookup on the

INSTITUTION file (#4).

Format \$\$LKUP^XUAF4(inst)

Input Parameters inst: (required) Institution lookup value, any of the following:

• Internal Entry Number (IEN), will have the `in front of it.

Station Number

Station Name

Output returns: Returns:

• IEN—Internal Entry Number.

• Zero (0).

\$\$MADD^XUAF4(): Institution Mailing Address

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the mailing address information for an institution in

a caret-delimited string (i.e., streetaddr^city^state^zip) for a given Internal Entry

Number (IEN) in the INSTITUTION file (#4).

Format \$\$MADD^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns the institution mailing address in a caret-delimited string:

streetaddr^city^state^zip

\$\$NAME^XUAF4(): Institution Official Name

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the OFFICIAL NAME field (#100) value in the

INSTITUTION file (#4) for an institution given its Internal Entry Number (IEN). However, If Field #100 is null, the NAME field (#.01) in the INSTITUTION file

(#4) is returned.

Format \$\$NAME^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns either of the following:

• OFFICIAL NAME field (#100) value in the INSTITUTION file (#4)—If Field #100 is *not* null.

• NAME field (#.01) value in the INSTITUTION file

(#4)—If Field #100 is null.

\$\$NNT^XUAF4(): Institution Station Number, Name, and Type

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the station information for an institution in a caret-

delimited string (i.e., station_number^station_name^station_type) for a given

Internal Entry Number (IEN) in the INSTITUTION file (#4).

Format \$\$NNT^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns the institution station information in a caret-delimited

string:

station number^station name^station type

\$\$NS^XUAF4(): Institution Name and Station Number

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the institution information in a caret-delimited

string (i.e., institution_name^station_number) for a given Internal Entry Number

(IEN) in the INSTITUTION file (#4).

Format \$\$NS^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns the institution information in a caret-delimited string:

institution name^station number

\$\$O99^XUAF4(): IEN of Merged Station Number

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the Internal Entry Number (IEN) of the valid

STATION NUMBER in the INSTITUTION file (#4), if this entry was merged during the INSTITUTION file (#4) cleanup process (e.g., due to a duplicate STATION NUMBER field [#99]). This function may be used by application developers to re-point their INSTITUTION file (#4) references to a valid entry

complete with Station Number.

Format \$\$099^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns the Internal Entry Number (IEN) of the INSTITUTION

file (#4) entry with a valid STATION NUMBER field (#99)—the Station Number deleted from the input IEN during the cleanup

process (i.e., Kernel Patch XU*8.0*206).

Example

>s newien=\$\$099^xuaf4(6538)

>W NEWIEN 6164 >W ^DIC(4,6164,99) 519HB^^^

\$\$PADD^XUAF4(): Institution Physical Address

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the physical address information for an institution

in a caret-delimited string (streetaddr^city^state^zip) for a given Internal Entry

Number (IEN) in the INSTITUTION file (#4).

Format \$\$PADD^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns the institution physical address in a caret-delimited string:

streetaddr^city^state^zip

\$\$PRNT^XUAF4(): Institution Parent Facility

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the parent facility institution information in a caret-

delimited string (ien^station number^name) for a given child facility STATION

NUMBER field (#99) in the INSTITUTION file (#4).

Format \$\$PRNT^XUAF4(sta)

Input Parameters sta: (required) The STATION NUMBER field (#99) value in the

INSTITUTION file (#4) for the child facility whose parent facility

information is being requested.

Output returns: Returns the parent facility institution information in a caret-

delimited string:

ien^station_number^name

\$\$RF^XUAF4(): Realigned From Institution Information

Reference Type Supported

Category Institution File

IA #

Description This extrinsic function returns the information that is pointed to in the

REALIGNED FROM field (#.06) in the HISTORY Multiple field (#999) in a caret-delimited string (ien^station_number^effective_date) for a given Internal

Entry Number (IEN) in the INSTITUTION file (#4).

Format \$\$RF^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns the realigned from institution information in a caret-

delimited string:

ien^station number^effective date

Example

>S IEN=\$\$RF^XUAF4(7020)

>W IEN

500^500^3000701

\$\$RT^XUAF4(): Realigned To Institution Information

Reference Type Supported

Category Institution File

IA#

Description This extrinsic function returns the information that is pointed to in the

REALIGNED TO field (#.05) in the HISTORY Multiple field (#999) in a caretdelimited string (ien^station_number^effective_date) for a given Internal Entry

Number (IEN) in the INSTITUTION file (#4).

Format \$\$RT^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns the realigned to institution information in a caret-

delimited string:

ien^station_number^effective_date

Example

>S IEN=\$\$RT^XUAF4(500)

>W IEN

7020^528A8^3000701

\$\$STA^XUAF4(): Station Number for IEN

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the STATION NUMBER (#99) for the entry of a

given Internal Entry Number (IEN) in the INSTITUTION file (#4).

Format \$\$STA^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns the Station Number.

Example

>S STA=\$\$STA^XUAF4(7020)

>**W STA** 528A8

\$\$TF^XUAF4(): Treating Facility (True/False)

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function, given the Internal Entry Number (IEN) in the

INSTITUTION file (#4), returns the Boolean value for the question—is this a

medical treating facility?

Format \$\$TF^XUAF4(ien)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question.

Output returns: Returns a Boolean value:

True (non-zero)—Treating facility.

• False (zero)—Not a Treating facility.

Example

```
>S TF=$$TF^XUAF4(7020)
```

>W TF

1

\$\$WHAT^XUAF4(): Institution Single Field Information

Reference Type Supported

Category Institution File

IA # 2171

Description This extrinsic function returns the data from a single field given the Internal Entry

Number (IEN) and the specific field requested in the INSTITUTION file (#4).

Format \$\$WHAT^XUAF4(ien, field)

Input Parameters ien: (required) Internal Entry Number (IEN) of the institution in

question (pointer value to the INSTITUTION file (#4).

field: (required) field number of the field in question.

Output returns: Returns the value in the specified field.

CDSYS^XUAF4(): Coding System Name

Reference Type Supported

Category Institution File

IA # 2171

Description This API returns the Coding System name.

Format CDSYS^XUAF4 (y)

Input Parameters y: (required) Pass by reference, returns:

Y(coding_system) =

\$D_of_local_system^ coding_system name

Output Parameters y: Passed by reference, returns:

Y(coding system) =

\$D_of_local_system^ coding_system name

CHILDREN^XUAF4(): List of Child Institutions for a Parent

Reference Type Supported

Category Institution File

IA # 2171

Description This API returns a list of all institutions that make up a given Veterans Integrated

Service Network (VISN), parent institution entered in the "parent" input

parameter.

Format CHILDREN^XUAF4 (array, parent)

Input Parameters array (required) \$NAME reference to store the list of institutions that

make up the parent VISN institution for the "parent" input

parameter.

parent (required) Parent (VISN) institution lookup value, any of the

following:

• Internal Entry Number (IEN), will have the `in front of it.

Station Number

Station Name

Output returns: Returns the array populated with the list of institutions that make

up the parent VISN.

Variable array

("c",ien)=station name^station_number

F4^AXUAF4(): Institution Data for a Station Number

Reference Type Supported

Category Institution File

IA # 2171

Description This API returns the Internal Entry Number (IEN) and other institution data,

including historical information, for a given STATION NUMBER (#99) in the

INSTITUTION file (#4).

Format F4^XUAF4(sta,[.]array[,flag][,date])

Input Parameters sta: (required) Station Number.

[.]array: (required) \$NAME reference for return values.

flag: (optional) Flags that represent the Station

Number Status. Possible values are:

A—Active entries only.

• M—Medical treating facilities only.

date: (optional) Return name on this VA FileMan

internal date.

Output array IEN or "0^error message"

array("NAME") Name

array("VA NAME") Official VA Name

array("STATION NUMBER") Station Number

array("TYPE") Facility Type Name

array("INACTIVE") Inactive Date (0=not inactive)

Ð

NOTE: If inactive date not available, then

I.

array("REALIGNED TO") IEN^station number^date

array("REALIGNED FROM") IEN^station number^date

array("MERGE",IEN") Merged Records

Example

>D F4^XUAF4("528A8",.ARRAY)

>ZW ARRAY

ARRAY=7020
ARRAY("INACTIVE")=0
ARRAY("NAME")=ALBANY
ARRAY("REALIGNED FROM")=500^500^3000701
ARRAY("STATION NUMBER")=528A8
ARRAY("TYPE")=VAMC
ARRAY("VA NAME")=VA HEALTHCARE NETWORK UPSTATE NEW YORK SYSTEM VISN 2 - ALBANY DIVISION

LOOKUP^XUAF4(): Lookup Institution Identifier

Reference Type Supported

Category Institution File

IA # 2171

Description This API lookup utility allows a user to select an Institution by Coding System and

ID. It prompts a user for a Coding System and then prompts for an Identifier—it's an IX^DIC API call on a New Style cross-reference of the ID field (#.02) of the

IDENTIFIER Multiple field (#9999) of the INSTITUTION file (#4).

Format LOOKUP^XUAF4()

Input Parameters

REF: For input information, please refer to the IX^DIC documentation in the VA FileMan Programmer Manual.

Output

1

REF: For output information, please refer to the IX^DIC documentation in the *VA FileMan Programmer Manual*.

Example

Select INSTITUTION CODING SYSTEM: DMIS $$\operatorname{\textsc{ID}:}$ 0037$

DMIS 0037 WALTER REED DC USAH 688CN

MAIN^XUMFI(): HL7 Master File Message Builder

Reference Type Controlled Subscription

Category Institution File

IA # 2171

Description This API implements an HL7 Master File Message Builder Interface that

dynamically maps a VA FileMan field to an HL7 Master File sequence within a segment. The interface implements functionality to build Master File Notification (MFN), Master File Query (MFQ), and Master File Response (MFR) segments. The interface calls applicable VISTA HL7 GENERATE and GENACK interfaces to send/reply/broadcast an appropriate HL7 Master

File message.

Format MAIN^XUMFI(ifn,ien,type,param,error)

Input Parameters

a

REF: For a description of the Input parameters for this API, please refer to the "MAIN^XUMFP(): Master File Parameters" API.

Output Parameters & Output



REF: For a description of the Output Parameters and Output for this API, please refer to the "MAIN^XUMFP(): Master File Parameters" API.

Details

This interface should be called after the Master File Parameter API. The Master File Parameter API sets up the required parameters in the PARAM array.

The Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206) implements several Application Programmer Interfaces (APIs). After the IFR patch has been installed and the Cleanup performed, the STATION NUMBER field (#99) will be a unique key to the INSTITUTION file (#4).

Example

>D MAIN^XUMFI(4,18723,1,.PARAM,.ERROR)

From the HL7 MESSAGE TEXT file (#772), you would see the following:

DATE/TIME ENTERED: JAN 12, 2001@09:17:29

SERVER APPLICATION: XUMF MFN TRANSMISSION TYPE: OUTGOING

MESSAGE ID: 0259 PARENT MESSAGE: JAN 12, 2001@09:17:29
PRIORITY: DEFERRED RELATED EVENT PROTOCOL: XUMF MFN

MESSAGE TYPE: SINGLE MESSAGE

MESSAGE TEXT:

MFI^Z04^MFS^REP^20010112091729^20010112091729^NE

MFE^MUP^^19001011^631GD~STATION NUMBER~D

ZIN^GREENFIELD^631GD^National^CBOC~FACILITY TYPE~VA^^^MASSACHUSETTS^^^^^

STATUS: SUCCESSFULLY COMPLETED

DATE/TIME PROCESSED: JAN 12, 2001@09:17:29

NO. OF CHARACTERS IN MESSAGE: 161 NO. OF EVENTS IN MESSAGE: 1

MAIN^XUMFP(): Master File Parameters

Reference Type Controlled Subscription

Category Institution File

IA # 2171

Description This API sets up required parameters used by the HL7 Master File Message

Builder Interface and the HL7 Master File message handler. The interface defines required parameters and serves as a common interface for parameter initialization.

This interface is the enabling component of the Master File Server (MFS)

mechanism that allows the server to maintain VA FileMan Master Files, including

files with multiple fields and extended references.

The programmer may set any PARAM parameter before or after the interface call

and override the default value.

Format MAIN^XUMFP(ifn,ien,type,param,error)

Input Parameters ifn: (required) Internal File Number (IFN).

ien: (required) Internal Entry Number (IEN).

Single entry (pass by value).

Example:

• IEN=1

Multiple entries (pass by reference).

Example:

- IEN(1)=""
- IEN(2)=""

ALL national entries (pass by value).

Example:

• IEN="ALL"

type: (required) Message TYPE. Possible values are:

0—MFN: Unsolicited update.

1—MFQ: Query particular record and file.3—MFQ: Query particular record in array.

5—MFQ: Query group records file.

7—MFQ: Query group records array.

11—MFR: Query response particular record file.13—MFR: Query response particular record array.

15—MFR: Query response group records file.

17—MFR: Query response group records array.

Output Parameters param("PROTOCOL") IEN Protocol file (#101).

param("BROADCAST") Broadcast message to all VistA sites.

param("LLNK") Logical link in HLL("LINKS",n) format.

Output error 1^Error message text

Details

QRD Query definition	HL7 Sequence	HL7 Data Type
param("QDT")	Query Date/Time	TS
param("QFC")	Query Format Code	ID
param("QP")	Query Priority	ID
param("QID")	Query ID	ST
param("DRT")	Deferred Response Type	ID
param("DRDT")	Deferred Response Date/Time	TS
param("QLR")	Quantity Limited Request	CQ
param("WHO")	Who Subject Filter	XCN
param("WHAT")	What Subject Filter	CE
param("WDDC")	What Department Data Code	CE
param("WDCVQ")	What Data Code Value Qual	CM
param("QRL")	Query Results Level	ID

XCN data type of QRD WHO parameter		
1 ST component		One of the following:
NAME		Value of NAME field (#.01) for Internal Entry Number (IEN).
ALL		String represents all national entries.
IEN ARRAY		String represents entries passed in IEN array.
9 th component	D	Source table (VA FileMan cross-reference).
10 th component	045A4	Assigning authority.

CE data type of QRD WHAT parameter		
1 ST component	4	Identifier
2 nd component	IFN	Text
3 rd component	VA FM	Name of Coding System

MFI—Master File Identification		
PARAM("MFI")	Master File Identifier	
PARAM("MFAI")	Master File Application Identifier	
PARAM("FLEC")	File-Level Event Code	
PARAM("ENDT")	Entered Data/Time	
PARAM("MFIEDT")	Effective Date/Time	
PARAM("RLC")	Response Level Code	

MFE—Master File Entry	
PARAM("RLEC")	Record-Level Event Code
PARAM("MFNCID")	MFN Control ID
PARAM("MFEEDT")	Effective Date/Time
PARAM("PKV")	Primary Key Value

[Z] segment(s) parameters		
PARAM("SEG",SEG)=""	HL7 segment name	
PARAM("SEG",SEG,"SEQ",SEQ,FLD#)	segment sequence # and field	



NOTE: If any special processing is required, in addition to the external value passed by VA FileMan, set the FLD# node equal to a formatting function "n^\$\$TAG^RTN(X)".

- "n" being the component sequence number.
- "X" representing the external value from VA FileMan.

\$P(segment_sequence,HLCS,n)=FM_external_value.

Files involving sub-records and/or extended reference		
PARAM("SEG",SEG,"SEQ",SEQ,"FILE")	See VA FileMan documentation.	
PARAM("SEG",SEG,"SEQ",SEQ,"IENS")	\$\$GET1^DIQ() for value.	
PARAM("SEG",SEG,"SEQ",SEQ,"FIELD")	of FILE, IENS, & FIELD.	
PARAM("SEG",SEG,"SEQ",SEQ,"KEY")	.01 value.	
PARAM("SEG",SEG,"SEQ",SEQ,"FORMAT")	format non ST data types.	

NOTE: Query group records store PARAM in the ^TMP global with the following root: ^TMP("XUMF MFS",\$J,"PARAM",IEN).

Example: MFE PKV node is ^TMP("XUMF MFS",\$J,"PARAM",IEN,"PKV")

Example

The following example is a query (MFQ) for a group records array:

```
>D MAIN^XUMFP(4,"ALL",7,.PARAM,.ERROR)
```

Since query group records store PARAM in the ^TMP global, display the ^TMP global to see the PARAM values:

>D ^%G

```
Global ^TMP("XUMF MFS",$J
       TMP("XUMF MFS",$J
^TMP("XUMF MFS",539017563,"PARAM","DRDT") =
^TMP("XUMF MFS",539017563,"PARAM","DRT") =
^TMP("XUMF MFS",539017563,"PARAM","ENDT") =
^TMP("XUMF MFS",539017563,"PARAM","FLEC") = UPD
^TMP("XUMF MFS",539017563,"PARAM","MFAI") =
^TMP("XUMF MFS",539017563,"PARAM","MFEEDT") = 20010212110654
^TMP("XUMF MFS",539017563,"PARAM","MFI") = Z04
^TMP("XUMF MFS",539017563,"PARAM","MFIEDT") =
^TMP("XUMF MFS",539017563,"PARAM","MFNCID") =
^TMP("XUMF MFS",539017563,"PARAM","POST") = POST^XUMFP4C
^TMP("XUMF MFS",539017563,"PARAM","PRE") = PRE^XUMFP4C
^TMP("XUMF MFS",539017563,"PARAM","PROTOCOL") = 2233
^TMP("XUMF MFS",539017563,"PARAM","QDT") = 20010212110654
^TMP("XUMF MFS",539017563,"PARAM","QFC") = R
^TMP("XUMF MFS",539017563,"PARAM","QID") = Z04 ARRAY
^TMP("XUMF MFS",539017563,"PARAM","QLR") = RD~999
^TMP("XUMF MFS",539017563,"PARAM","QP") = I
^TMP("XUMF MFS",539017563,"PARAM","QRL") =
^TMP("XUMF MFS",539017563,"PARAM","RLC") = NE
^TMP("XUMF MFS",539017563,"PARAM","RLEC") = MUP
```

```
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",1,.01) = ST
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",2,99) = ST
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",3,11) = ID
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",4,13) = CE^~FACILITY TYPE~VA
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",5,100) = ST
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",6,101) = ST
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",7,.02) = ST
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",8,"DTYP") = CE^~VISN~VA
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",8,"FIELD") = 1
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",8,"FILE") = 4.014
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",8,"IENS") = 1,?+1,
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",9,"DTYP") = ST
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",9,"FIELD") = 1:99
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",9,"FILE") = 4.014
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",9,"IENS") = 2,?+1,
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",10,"DTYP") = DT
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",10,"FIELD") = .01
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",10,"FILE") = 4.999
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",11,"DTYP") = ST
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",11,"FIELD") = .06:99
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",11,"FILE") = 4.999
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",12,"DTYP") = DT
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",12,"FIELD") = .01
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",12,"FILE") = 4.999
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",13,"DTYP") = ST
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",13,"FIELD") = .05:99
^TMP("XUMF MFS",539017563,"PARAM","SEG","ZIN","SEQ",13,"FILE") = 4.999
^TMP("XUMF MFS",539017563,"PARAM","SEGMENT") = ZIN
^TMP("XUMF MFS",539017563,"PARAM","WDCVQ") =
^TMP("XUMF MFS",539017563,"PARAM","WDDC") = INFRASTRUCTURE~INFORMATION INFRASTRUCTURE
~VA TS
^TMP("XUMF MFS",539017563,"PARAM","WHAT") = 4~IFN~VA FM
^TMP("XUMF MFS",539017563,"PARAM","WHO") = ALL~~~~~D~045A4
```

PARENT^XUAF4(): Parent Institution Lookup

Reference Type Supported

Category Institution File

IA # 2171

Description This API returns a list of all institutions that make up a given Veterans Integrated

Service Network (VISN), parent institution entered in the "lookup" input

parameter.

Format PARENT^XUAF4(array,lookup[,type])

Input Parameters array: (required) \$NAME reference to store the list of the parent (VISN)

institution for the "lookup" input parameter institution.

lookup: (required) Parent (VISN) institution lookup value, any of the

following:

• Internal Entry Number (IEN), will have the `in front of it.

• Station Number

Station Name

type: (optional) Type of institution from the INSTITUTION

ASSOCIATION TYPES file (#4.05, default is VISN).

Output returns: Returns the array populated with the list of parent (VISN)

institutions.

Variable array ("P", PIEN) = STATION NAME^STATION NUMBER



NOTE: With the business rule that institutions can have only one parent per type, if you specify the input parameter type, you will get an array that will have only one PIEN in it. If the type parameter is left blank, it finds all parents for the institution and lists them in the array.

SIBLING^XUAF4(): Sibling Institution Lookup

Reference Type Supported

Category Institution File

IA # 2171

Description This API returns a list of all institutions that make up a given Veterans Integrated

Service Network (VISN), parent institution entered in the "child" input parameter.

Format SIBLING^XUAF4(array,child[,type])

Input Parameters array: (required) \$NAME reference to store the list of all institutions of a

parent (VISN) institution for the "child" input parameter

institution.

child: (required) Child institution lookup value, any of the following:

• Internal Entry Number (IEN), will have the `in front of it.

Station Number

Station Name

type: (optional) Type of institution from the INSTITUTION

ASSOCIATION TYPES file (#4.05, default is VISN).

Output returns: Returns the array populated with the list of all institutions of the

parent (VISN) institution.

Variable array ("P", PIEN, "C", CIEN) = STATION NAME^STATION NUMBER



NOTE: With the business rule that institutions can have only one parent per type, if you specify the input parameter type, you will get an array that will have only one PIEN in it. If the type parameter is left blank, it finds all parents for the institution and lists them in the array. Also, the input site (i.e., "child" input parameter) is included in the list.

III. Systems Management Guide

This is the Systems Management Guide section of this supplemental documentation for the Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206). It details the technical-related IFR documentation (e.g., implementation and maintenance of IFR, routines, files, options, interfaces, product security, etc.)

The intended audience for this section is Information Resource Management (IRM). However, it can also be helpful to others in Technical Service, the Program Office, Enterprise VistA Support (EVS), and Application Structure and Integration Services (ASIS).

Systems Management Guide

6. Implementation and Maintenance

Kernel Patch XU*8.0*206 is a Kernel Installation and Distribution System (KIDS) software release.

Implementation

Installation Instructions

Kernel Patch XU*8.0*206 can be installed at any time. The installation time should not take more than two minutes. The actual cleanup of the local site's INSTALLATION file (#4), using the List Manager utilities, takes additional time.



REF: For specific software requirements and the minimum VistA software and patches that are required with the IFR-relate software, please refer to the "Software Requirements" topic under the "External Relations" topic in this chapter.

Since the INSTITUTION file (#4) is a standard file referenced by many software applications, we recommend that cleanup be performed with as few users on the system as possible; this includes running the Auto update with national data (AUTO) and Delete local/dup. station # (DSTA) List Manager actions. The other actions (lists) can be run at any time. Resolving any duplicate entries is interactive and varies from site to site. The Auto update with national data (AUTO) List Manager action should take from 5 to 10 minutes.



NOTE: The cleanup code queries the Master File Server (MFS) on FORUM to get a copy of the Institution Master File (IMF). The VistA HL7 software checks to determine whether a message is intended for production or training. The FORUM server's HL7 site parameter is set to "production," so attempting to install this patch in a test account with the site parameter set to "training" results in a response message containing an "Application Reject" due to "Processing ID Mismatch with Site Parameters."

Before installing Kernel Patch XU*8.0*206, make copies of the INSTITUTION (#4) and FACILITY TYPE (#4.1) files.

To save copies of the INSTITUTION (#4) and FACILITY TYPE (#4.1) files for backup purposes, depending on your operating system, the site does the following:

- DSM—Use ^%GTO
- Caché—Use %GO)

The following is an example:

Figure 6-1. Sample backup of the INSTALLATION and FACILITY TYPE files at a DSM site

To restore the backup copy in the event of some unforeseen problem (e.g., the site decides it needs to back out of the cleanup process), the site can do the following:

- **1.** KILL ^DIC(4),^DIC(4.1
- **2.** Depending on your operating system, the site does one of the following:
 - **DSM**—DO ^%GTI
 - Caché—DO ^%GI

This restores the data to its original state.

The Installation process includes the following steps/tips:

- 1. Users **ARE** allowed to be on the system during the installation.
- **2. DSM/AXP Sites**—Kernel patch routines are *not* usually mapped, so you probably do *not* have to disable mapping.
- 3. You **DO NOT** need to stop TaskMan **OR** the background filers.
- **4.** Use the INSTALL/CHECK MESSAGE option on the PackMan menu to load the patch into a Transport Global onto your system.

5. On the KIDS menu [XPD MAIN], select the Installation menu [XPD INSTALLATION MENU] and use the following options to install the Transport Global:

```
Verify Checksums in Transport Global
Print Transport Global
Compare Transport Global to Current System
Backup a Transport Global

Install Package(s)

INSTALL NAME: XU*8.0*206

Want KIDS to INHIBIT LOGONs during the install? NO

Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
```

Figure 6-2. Sample installation of a KIDS transport global at a site

- **6. DSM/AXP Sites**—Answer "**NO**" to the question "Want to MOVE routines to other CPUs?"
- **7. DELETE** the following routines:
 - **XUMFPOST**—Post-init routine.
 - **XUMFENV**—Environment check routine.



CAUTION: Do not delete any other XUMF* routines!

- **8.** Add members to the XUMF INSTITUTION mail group who should be notified of any new Station Numbers added to the INSTITUTION file (e.g., IRM, PIMS ADPACs, etc).
 - **REF:** For more information on this mail group, please refer to the "Mail Groups" topic in Chapter 7, "Software Product Security," in this manual.
- **9.** Add members to the XUMF SERVER mail group who should be notified of any server bulletins. These bulletins can include error messages related to the server mechanism (MFS) and may require intervention by IRM.
 - **REF:** For more information on this mail group, please refer to the "Mail Groups" topic in Chapter 7, "Software Product Security," in this manual.

Post Installation Instructions

1. (Optional) Add the Institution File Query / Update option [XUMF INSTITUTION] to the Kernel Management Menu [XUKERNEL].



NOTE: The Institution File Query / Update option [XUMF INSTITUTION] was disabled with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup) to prevent sites that have already initially cleaned up their INSTITUTION file (#4) from running the option again. It should be used only in development accounts, at Consolidated Mail Outpatient Pharmacies (CMOPs), or at any VistA site that has never done the cleanup and needs to fully load the Institution table.

2. After installing Kernel Patch XU*8.0*206, you should perform the Installation File Cleanup. To run the Cleanup, select the Institution File Query / Update option [XUMF INSTITUTION] in the Kernel Management Menu.



NOTE: The Institution File Query / Update option [XUMF INSTITUTION] was disabled with Kernel Patch XU*8.0*335(i.e., HealtheVet cleanup) to prevent sites that have already initially cleaned up their INSTITUTION file (#4) from running the option again. It should be used only in development accounts, at CMOPs, or at any VistA site that has never done the cleanup and needs to fully load the Institution table.

REF: For a complete description of the Institution File Cleanup, please refer to the "Institution File Cleanup Process—Initial" topic in Chapter 2, "Local Site IMF Administrator Duties," in this manual.

Memory Constraints

There are no special memory constraints, other than sites having sufficient space to allow for normal global growth.

Special Operations

There are no special operations required other than the normal backup and recovery operations.

Maintenance

Bulletins

The Master File Server (MFS) generates the following Bulletins (listed alphabetically):

Bulletin	Description
XUMF ERROR	This bulletin is an error message that is generated if an error occurs on the Master File Server (MFS).
XUMF INSTITUTION	This bulletin is an update notification message that is generated at a site (client) when the local site's INSTITUTION file (#4) has been automatically updated with national entries from the Institution Master File (IMF) via the Master File Server (MFS).

Table 6-1. MFS bulletins associated with the IFR-related software



REF: For more information on this mail group, please refer to the "Mail Groups" topic in Chapter 7, "Software Product Security," in this manual.

HL7 Application Parameters

The Master File Server (MFS) uses the following HL7 Application Parameters (listed alphabetically):

HI7 Application Parameters	Description	
DS Pub Man~~L	Master File Notification	
DTS Term Srv~~L	DTS Terminology Server	
XUMF MFK	Master File Application ACK.	
XUMF MFN	Master File Notification.	
XUMF MFP MFQ Master File Parameters.		
XUMF MFP MFR	Master File Parameters Query Response.	
XUMF MFQ	MFS Query.	
XUMF MFR	MFS Query Response.	
XUMF MFS	MFS Handler.	
XUMF SERVER	Master File Notification (VistA-to-VistA).	

Table 6-2. MFS HL7 application parameters associated with the IFR-related software

HL7 Logical Link

The Master File Server (MFS) uses the following HL7 Logical Link:

HL7 Logical Link	Description	
XUMF ACK	The MFS application acknowledgement.	
XUMF FORUM	The HL7 LOGICAL LINK (#870) to the Master File Server.	

Table 6-3. MFS HL7 logical link associated with the IFR-related software



NOTE: The link does not need to be started via the Start logical Links option because it is a real-time link.

Protocols

The Master File Server (MFS) uses the following protocols (listed alphabetically):

MFS Protocol	Description	
DS Pub Man~~L	Master File Notification	
DTS Term Srv~~L	DTS Terminology Server	
XUMF MFK	Master File Application ACK.	
XUMF MFN	Master File Notification.	
XUMF MFP MFQ	Master File Parameters.	
XUMF MFP MFR	Master File Parameters Query Response.	
XUMF MFQ	MFS Query.	
XUMF MFR	MFS Query Response.	
XUMF MFS	MFS Handler.	
XUMF SERVER	Master File Notification (VistA-to-VistA).	

Table 6-4. MFS protocols associated with the IFR-related software

The cleanup process of the local site's INSTITUTION file (#4) uses the following protocols (listed alphabetically):

Cleanup Protocol	Description	
XUMF AUTO	Auto update with national data.	
XUMF CHCK	Required clean up actions (CHCK).	
XUMF DSTA	Delete local/dup. station # (DSTA).	
XUMF LLCL	List local data (LLCL).	
XUMF NAME	Names INSTITUTION vs. national.	
XUMF NATL	List national data to merge (NATL).	
XUMF RDSN	Resolve duplicate station numbers (RDSN).	
XUMF RDSN MENU	Duplicate station number menu.	

Table 6-5. Cleanup protocols associated with the IFR-related software

Templates

The cleanup process of the local site's INSTITUTION file (#4) uses the following list templates (listed alphabetically):

List Template	Description
XUMF CHCK	Required clean up actions (CHCK).
XUMF DSTA	Delete local/dup. station # (DSTA).
XUMF LLCL	List local data (LLCL).
XUMF NAME	Names INSTITUTION vs. national.
XUMF NATL	List national data to merge.

Table 6-6. Cleanup list templates associated with the IFR-related software

Routines

This section provides information related to all executable XU* routines exported with IFR-related software (i.e., Kernel Patch XU*8.0*206). Do *not* delete any **XU*** routines.

All IFR-related software routines are prefixed with the namespace "XU."

The second line of these routines looks like:

```
<tab>;;8.0;KERNEL;<XU*8*nnn>;Jul 10, 1995
```

(Where "nnn" = the appropriate patch reference number.)



NOTE: Other routine information, such as the Routine Size Histogram, the Routine %Index, etc., can be generated through the use of Kernel Utilities.

Routine	Description
XUAF4	Institution File Access (APIs).
XUMF	Institution File Cleanup.
XUMF218	Load DOD DMIS ID's (Kernel Patch XU*8.0*218).
XUMF218A	Load DMIS ID's (Kernel Patch XU*8.0*261).
XUMF261P	Post Init (Kernel Patch XU*8.0*261).
XUMF299	Query server for parameters (Kernel Patch XU*8.0*299).
XUMF333	Add HCS Data Types (Kernel Patch XU*8.0*335).
XUMF4	Institution File Cleanup—Main.
XUMF416	Load National Provider Identifier (NPI; Kernel Patch XU*8.0*416).
XUMF4A	Institution File Cleanup—Auto.
XUMF4F	Institution Master File Edit.
XUMF4H	Institution File Cleanup—Help.
XUMF4L0	Load IMF (Kernel Patch XU*8.0*217).
XUMF4L1	Load IMF (Kernel Patch XU*8.0*261).
XUMF4L2	Load IMF (Kernel Patch XU*8.0*217).
XUMF512F	Postal and County Code Master File Edit (Kernel Patch XU*8.0*246).
XUMFEIMF	Edit IMF (Kernel Patches XU*8.0*217 and 335).
XUMFENV	Environment check.
XUMFH	Master File HI7 Message Handler.
XUMFH4	FORUM IMF Handler (Kernel Patches XU*8.0*217 and 218).
XUMFHM	MFS Handler Error Message (Kernel Patches XU*8.0*416).
XUMFHPQ	Build query message for parameters (Kernel Patch XU*8.0*299).

Routine	Description	
XUMFHPR	Build query response for parameters (Kernel Patch XU*8.0*299).	
XUMFI	Master File Interface.	
XUMFI0	Master File Interface (Kernel Patch XU*8.0*369 & 416)	
XUMFMFE	HL7 MFE Segment (Kernel Patch XU*8.0*217).	
XUMFMFI	HL7 MFI Segment (Kernel Patch XU*8.0*217).	
XUMFP	Master File C/S Parameters.	
XUMFP4	Master File C/S Params INSTITUTION.	
XUMFP4C	Master File C/S Params INSTITUTION (continued).	
XUMFP4Z	Master File Common Services Parameters INSTITUTION file (#4; Kernel Patch XU*8.0*416).	
XUMFP512	Master File Param POSTAL CODE (Kernel Patch XU*8.0*246).	
XUMFP513	Master File Param COUNTY CODE (Kernel Patch XU*8.0*246).	
XUMFPFT	Master File C/S Param FACILITY TYPE.	
XUMFPMFS	Master File C/S Param FACILITY TYPE.	
XUMFPOST	Post-INIT routine (protocol subscriber associations with event; Kernel Patch XU*8.0*299).	
XUMFPZL7	Master File Param ZL7 (Kernel Patches XU*8.0*262, 369).	
XUMFR	Pre/Post Update Subroutines (Kernel Patch XU*8.0*335).	
XUMFX	MFS internal API (Kernel Patch XU*8.0*299).	
XUMFXACK	MFS acknowledgement (Kernel Patch XU*8.0*299).	
XUMFXH	MFS handler (Kernel Patch XU*8.0*299).	
XUMFXHL7	Parse HL7 segment (Kernel Patch XU*8.0*299).	
XUMFXI	Build HL7 message (Kernel Patch XU*8.0*299).	
XUMFXP	MFS parameters (main; Kernel Patch XU*8.0*299).	
XUMFXP1	MFS parameters (param array; Kernel Patch XU*8.0*299).	
XUMFXP2	MFS parameters (query; Kernel Patch XU*8.0*299).	
XUMFXR	Pre/post updating subroutines (Kernel Patch XU*8.0*299).	

Table 6-7. List of routines exported with IFR-related software

Files

This section contains information on all files and globals exported with the Institution File Redesign (IFR)-related software patches (Kernel Patch XU*8.0*206). This information includes: file numbers, file names, global location, data with file indicator, and file descriptions. The Institution File Redesign (IFR)-related software file numbers range from 4 to 4.1.



REF: File security access is described in the "File Security" topic in Chapter 7, "Software Product Security," in this manual.

NOTE: Other pertinent file information, such as data dictionaries and relations with other files, can be generated online through the use of VA FileMan utilities.

File Number	File Name	Global Location	Data W/ File?	Description
4	INSTITUTION	^DIC(4,	No	This file contains a listing of VA institutions. It is cross-referenced by STATION NUMBER and NAME. The NUMBER field is no longer meaningful (it had previously referenced the STATION NUMBER).
4.001	MASTER FILE PARAMETERS	^DIC(4.001,	Yes	This file holds data type (data type = a standard file) parameters such as mapping HL7 segment fields and components to VA FileMan fields, pre/post update subroutine calls, post-processing logic, HL7 data types, and Primary Key value definitions.
4.1	FACILITY TYPE	^DIC(4.1,	No	The INSTITUTION file (#4) points to this file. It contains a list of facility codes that were previously stored in the VA TYPE CODE field of the INSTITUTION file. This file is exported with data, and the new data should overwrite the old. It is cross-referenced by NAME and FULL NAME.

Table 6-8. Files used by IFR-related software

Exported Options

Options—Without Parents

The following options are not assigned to any menu when the Institution File Redesign (IFR)-related software patches are exported. They can be assigned to a menu at the discretion of the System Manager at a site, if appropriate (options listed alphabetically):

Option Name	Option Title	Description
XUMF DMIS ID LOAD	Load DMIS ID's	This option was introduced with Kernel Patch XU*8.0*218. It is used to queue a TaskMan task that queries the Institution Master File (IMF) using HL7 messaging to get a copy of the DoD facilities in the IMF. These facilities are then added to the local Institution file.
		This option is locked with the XUMF INSTITUTION security key.
		CAUTION: We recommend that only the VA CMOP facilities that require these DoD facilities use this option at this time.
XUMF FORUM INSTITUTION	Institution Master File Edit	This option was introduced with Kernel Patch XU*8.0*206. It is available only on FORUM. It is locked with the XUMF INSTITUTION security key. This option is used to update entries in the FORUM Institution Master File (IMF).

Option Name	Option Title	Description
XUMF IMF ADD EDIT	IMF edit	This option was introduced with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup); it replaces the IMF address edit option [XUMF IMF ADD EDIT] introduced with Kernel Patch XU*8.0*217. It allows the site to edit their INSTITUTION file (#4) entries (i.e., those entries that share the same 3-digit Station Number as the current users logon division) and generates an HL7 update message to update the Institution Master File (IMF) on FORUM.
XUMF IMF EDIT STATUS	IMF Display Cleanup Status	This option was introduced with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup). It lists all your facilities that need updating. It also lists the fields that are missing data. It's a good idea to list this information before editing your data.
XUMF INSTITUTION	Institution File Query / Update	This option was disabled with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup) to prevent sites that have already initially cleaned up their INSTITUTION file (#4) from running the option again. It should be used only in development accounts, at CMOPs, or at any VistA site that has never done the cleanup and fully loaded the Institution table. This option was originally introduced with Kernel Patch XU*8.0*206. It was used to update entries in the local site's INSTITUTION file (#4).

Option Name	Option Title	Description
XUMF LOAD INSTITUTION	Update/refresh Institution file with IMF data	This option was introduced with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup). It loads the current IMF data into the INSTITUTION file (#4). NOTE: The XUMF LOAD INSTITUTION option will not be completely successful if there are duplicate station numbers. The cleanup fixes/removes duplicates (see the "Institution File Cleanup Process—Initial" topic in Chapter 2,"Local Site IMF Administrator Duties," in this manual). Thus, the cleanup is a required first step before you can get updates, get the national table, or use the XUMF LOAD INSTITUTION option.
XUMF335 clean 4.1 and 4	Patch XU*8*335 clean 4.1 and 4	This option was introduced with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup). It queries the IMF for the latest copy of Institution data—updating the local INSTITUTION file (#4). All INACTIVE facilities have the NAME (#.01) ZZ'd and the VISN and PARENT FACILITY associations removed. It removes facility types before getting new values, so it should be run after hours. NOTE: This option should be run at a later date after all sites have completed editing.

Table 6-9. Menu options without parents exported with IFR-related software

1

NOTE: You can optionally attach these options to the Kernel Management Menu [XUKERNEL].

Options—With Parents

The following option is assigned to the Kernel Management Menu [XUKERNEL] on FORUM when the Institution File Redesign (IFR)-related software patches are installed:

Option Name	Option Title	Description
XUMF LOAD NPI	Load Institution NPI values	This option was introduced with Kernel Patch XU*8.0*416.
		This option is to be used only in the case the National Provider Identifier (NPI) values fail to load in the post install or if it should become necessary to reload the NPI values (e.g., NPI values become corrupt or the data otherwise needs to be refreshed).
		This option is used to edit institution data, including NPI and Taxonomy codes, selectable by coding system (e.g., NPI, Department of Defense [DOD], or Clinical Laboratory Improvement Amendments [CLIA]) and Identifier pair (for beta testing made target site, for Health Level seven [HL7] unsolicited update message, selectable rather than publish nationally).

Table 6-10. Menu options with parents exported with IFR-related software

Archiving and Purging

There are no application-specific archiving and purging procedures or recommendations for IFR-related software (i.e., Kernel Patch XU*8.0*206).

Callable Routines

This topic lists all the APIs exported with the Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206).

Every callable entry point (API) is described in Chapter 5, "Application Program Interfaces (APIs)," in this manual.

Entry Point	Brief Description
\$\$ACTIVE^XUAF4(ien)	This function, given the Internal Entry Number (IEN) in the INSTITUTION file (#4), returns the Boolean value for the question—is this an active facility? It checks to see if the INACTIVE FACILITY FLAG field (#101) is <i>not</i> set.
\$\$CIRN^XUAF4(inst[,value])	This function returns the value of the CIRN-enabled field from the INSTITUTION file (#4).
\$\$ID^XUAF4(cdsys,ien)	This function returns the Identifier (ID) of an INSTITUTION file (#4) entry for a given Coding System and Internal Entry Number (IEN).
\$\$IDX^XUAF4(cdsys,id)	This function returns the Internal Entry Number (IEN) of an INSTITUTION file (#4) entry for a given Coding System and Identifier (ID) pair.
\$\$IEN^XUAF4(sta)	This function returns the INSTITUTION file (#4) IEN for a given Station Number.
\$\$IEN^XUMF(ifn,cdsys,id)	This function returns the INSTITUTION file (#4) IEN for a given Internal File Number (IFN), Coding System, and Identifier (ID).
\$\$LEGACY^XUAF4(sta)	This function, given the STATION NUMBER field (#99) in the INSTITUTION file (#4), returns the Boolean value for the question—has this station number been realigned? Is it a legacy Station Number?
\$\$LKUP^XUAF4(inst)	This function returns the IEN or zero when doing a lookup on the INSTITUTION file (#4).
\$\$MADD^XUAF4(ien)	This function returns the mailing address information for an institution in a caret-delimited string (i.e., streetaddr^city^state^zip) for a given Internal Entry Number (IEN) in the INSTITUTION file (#4).
\$\$NAME^XUAF4(ien)	This function returns the OFFICIAL NAME field (#100) value in the INSTITUTION file (#4) for an institution given its Internal Entry Number (IEN). However, If Field #100 is null, the NAME field (#.01) in the INSTITUTION file (#4) is returned.
\$\$NNT^XUAF4(ien)	This function returns the station information for an institution in a caret-delimited string (i.e., station_number^station_name^station_type) for a given Internal Entry Number (IEN) in the INSTITUTION file (#4).

Entry Point	Brief Description
\$\$NS^XUAF4(ien)	This function returns the institution information in a caret- delimited string (i.e., institution_name^station_number) for a given Internal Entry Number (IEN) in the INSTITUTION file (#4).
\$\$O99^XUAF4(ien)	If this entry was merged due to a duplicate Station Number, this function returns a pointer to the new Station Number INSTITUTION file (#4) IEN.
\$\$PADD^XUAF4(ien)	This function returns the physical address information for an institution in a caret-delimited string (streetaddr^city^state^zip) for a given Internal Entry Number (IEN) in the INSTITUTION file (#4).
\$\$PRNT^XUAF4(sta)	This function returns the parent facility institution information in a caret-delimited string (ien^station_number^name) for a given child facility STATION NUMBER field (#99) in the INSTITUTION file (#4).
\$\$RF^XUAF4(ien)	This function returns the realigned from "IEN^station number^date" for a given INSTITUTION file (#4) IEN.
\$\$RT^XUAF4(ien)	This function returns the realigned to "IEN^station number^date" for a given INSTITUTION file (#4) IEN.
\$\$STA^XUAF4(ien)	This function returns the Station Number for a given INSTITUTION file (#4) IEN.
\$\$TF^XUAF4(ien)	This function determines if this is an active treating facility for a given INSTITUTION file (#4) IEN.
\$\$WHAT^XUAF4(ien,field)	This function returns the data from a single field given the Internal Entry Number (IEN) and the specific field requested in the INSTITUTION file (#4).
CDSYS^XUAF4(y)	This API returns the Coding System name.
CHILDREN^XUAF4(array,parent)	This API returns a list of all institutions that make up a given Veterans Integrated Service Network (VISN), parent institution entered in the "parent" input parameter.
F4^XUAF4(sta,array,flag,date)	INSTITUTION file (#4) multipurpose API.
LOOKUP^XUAF4()	This API lookup utility allows a user to select an Institution by Coding System and ID. It prompts a user for a Coding System and then prompts for an Identifier—it's an IX^DIC API call on a New Style cross-reference of the ID field (#.02) of the IDENTIFIER Multiple field (#9999) of the INSTITUTION file (#4).
MAIN^XUMFI(ifn,ien,type,param,error)	This API implements an HL7 Master File Message Builder Interface that dynamically maps a VA FileMan field to an HL7 Master File sequence within a segment.
MAIN^XUMFP(ifn,ien,type,param,error)	This API sets up required parameters used by the HL7 Master File Message Builder Interface and the HL7 Master File message handler.

Entry Point	Brief Description
PARENT^XUAF4(array,lookup[,type])	This API returns a list of all institutions that make up a given Veterans Integrated Service Network (VISN), parent institution entered in the "lookup" input parameter.
SIBLING^XUAF4(array,child[,type])	This API returns a list of all institutions that make up a given Veterans Integrated Service Network (VISN), parent institution entered in the "child" input parameter.

Table 6-11. Callable routines for IFR-related software—Alphabetized by entry point

External Interfaces

Hardware Interfaces

The INSTITUTION file (#4) and FACILITY TYPE file (#4.1) components continue to function on the standard hardware platforms employed by Department of Veterans Affairs healthcare facilities. These systems consist of Alpha AXP (running DSM) or Alpha/NT (running OpenM).

Software Interfaces

The INSTITUTION (#4) and FACILITY TYPE (#4.1) files, as well as other master files, are integral components of VistA and are referenced by numerous software applications. An HL7 (Messaging & Interface Services [M&IS]) interface specification for interaction with the Master File Server (MFS) has been defined with Kernel Patch XU*8.0*206.

The MFS and VistA's HL7 software provide the following functionality:

- **Broadcast Updates**—Implements a server mechanism to broadcast FORUM's Institution Master File (IMF) updates VHA-wide.
- **Handle Update Message**—Implements a message handler to update the site's local INSTITUTION file (#4).
- **Query Server**—Provides functionality to query FORUM's Institution Master File and Facility Type Master File.
- **Handle Ouery Response**—Provides functionality to handle query responses.
- **Track Station Number Changes**—Tracks Station Number changes in the INSTITUTION file (#4) via bulletins/e-mail messages and the VistA HL7 software.
- **Application Program Interfaces (APIs)**—Provides Application Program Interfaces (APIs) to set up required parameters to build and send HL7 messages.
 - **REF:** For more information on the APIs, please refer to Chapter 5, "Application Program Interfaces (APIs)," in this manual.
- **REF:** For more information on the Master File Server (MFS), please refer to the "Master File Server (MFS)" topic in Chapter 1, "Introduction," in this manual.
- **REF:** For a list of HL7 Application Parameters, HL7 Logical Link, and Master File Server Protocols associated with the IFR-related software, please refer to the "Maintenance" topic in this chapter.

Communications Interfaces

VistA's VA MailMan and HL7 (Messaging & Interface Services [M&IS]) software, utilizing bidirectional data transmission of HL7 messages over TCP/IP, provides support for communication between the VHA site (client) and FORUM (server) applications.

Kernel Patch XU*8.0*206 created the XUMF INSTITUTION mail group in MailMan to receive bulletins regarding updates to the INSTITUTION file (#4). Sites are responsible for populating this mail group with the appropriate personnel (e.g., IRM Chief, ADPAC, etc.).

Kernel Patch XU*8.0*299 created the XUMF ERROR mail group in MailMan. Members in this group will be notified of errors that may occur when the MFS is updating national entries in a standard table. Sites are responsible for populating this mail group with the appropriate personnel.

- **REF:** For more information on the mail groups exported with IFR-related software, please refer to the "Mail Groups" topic in Chapter 7, "Software Product Security," in this manual.
- **REF:** For a list of Bulletins associated with IFR-related software, please refer to the "Bulletins" topic under the "Maintenance" topic in this chapter.

External Relations

Software Requirements

The IFR-related software (i.e., Kernel Patch XU*8.0*206) requires a standard VistA operating environment in order to function correctly. Check your VistA environment for software and versions installed.

The minimum VistA software and patches that are required are listed as follows by:

- 1. VistA software and current version number.
- 2. Associated patch designations that need to be installed in addition to the VistA software.
- 3. Brief description of the associated patch.

VistA Software & Version	Associated Patch Designations	Brief Patch Description
Automated Med Info Exchange, V. 2.7	DVBA*2.7*32	User Station Number Check.
Kernel, V. 8.0	XU*8.0*43	CIRN Institution file update—This patch is in support of MPI/PD (i.e. CIRN). It adds fields to the INSTITUTION file (#4), an entry to the FACILITY TYPE file (#4.1), and adds new INSTITUTION file (#4) associations.
	XU*8.0*112	Remedy ticket fixes and APIs—XUAF4 routine fixed in the \$\$LKUP API.
Master Patient Index VistA, V. 1.0	MPIF*1.0*16	CIRN Master of Record (CMOR) Not Updating.
		NOTE: MPIF and RG patches should not be installed in Legacy systems to avoid issues with the legacy systems ending up as CMORs, Treating Facilities or Subscribers.
Registration, V. 5.3	DG*5.3.0*357	RAI MDS Institution Name Changing Problem.
Remote Order/Entry System, V. 2.0	RMPF*2.0*16	ROES Facility Lookup Fix/Message Addressing/Print Problem.

Table 6-12. Associated patches required for installation prior to installing Kernel Patch XU*8.0*206

The Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206) requires a standard VistA operating environment in order to function correctly. Check your VistA environment for software and versions installed.

Dependencies

The IFR-related software provides a common set of APIs for standardizing and retrieving Institution time-sensitive (historical) information.



REF: For more information on the APIs associated with the IFR-related software, please refer to Chapter 5, "Application Program Interfaces (APIs)," in this manual.

Integration Agreements (IA)

Supported References

These are the Kernel Supported reference Integration Agreements (IAs) for Institution File Redesign (IFR)-related software. Supported reference APIs are open for use by any VistA application as defined by the IA. They have been recorded as Supported references in the IA database on FORUM. VistA software applications are not required to request an IA to use these APIs.

The Supported Integration Agreements (IAs) are listed alphabetically by entry point below:

Entry Point Or Global Root	IA#	Туре	Name
\$\$ACTIVE^XUAF4	#2171	Routine	Institution Active Facility Function API
CDSYS^XUAF4	#2171	Routine	Coding System Name API
CHILDREN^XUAF4	#2171	Routine	List of Child Institutions for a Parent API
\$\$CIRN^XUAF4	#2171	Routine	Institution CIRN-enabled Field Value Function API
F4^XUFA4	#2171	Routine	Multipurpose API.
\$\$ID^XUAF4	#2171	Routine	Institution Identifier Function API
\$\$IDX^XUAF4	#2171	Routine	Institution IEN (Using Coding System & ID) Function API
\$\$IEN^XUAF4	#2171	Routine	IEN for Station Number Function API.
\$\$IEN^XUMF	#3795	Routine	Institution IEN (Using IFN, Coding System, & ID) Function API
\$\$LEGACY^XUAF4	#2171	Routine	Institution Realigned/Legacy Function API
\$\$LKUP^XUAF4	#2171	Routine	Institution Lookup Function API
LOOKUP^XUAF4	#2171	Routine	Lookup Institution Identifier API
\$\$MADD^XUAF4	#2171	Routine	Institution Mailing Address Function API
\$\$NAME^XUAF4	#2171	Routine	Institution Official Name Function API
\$\$NNT^XUAF4	#2171	Routine	Institution Station Number, Name, and Type Function API
\$\$NS^XUAF4	#2171	Routine	Institution Name and Station Number Function API
\$\$O99^XUAF4	#2171	Routine	Merged Duplicates Function API.
\$\$PADD^XUAF4	#2171	Routine	Institution Physical Address Function API
PARENT^XUAF4	#2171	Routine	Parent Institution Lookup API
\$\$PRNT^XUAF4	#2171	Routine	Institution Parent Facility Function API
\$\$RF^XUAF4	#2171	Routine	Realigned From Function API.
\$\$RT^XUAF4	#2171	Routine	Realigned To Function API.

Entry Point Or Global Root	IA#	Туре	Name
SIBLING^XUAF4	#2171	Routine	Sibling Institution Lookup API
\$\$STA^XUAF4	#2171	Routine	Return STATION NUMBER Function API.
\$\$TF^XUAF4	#2171	Routine	Treating Facility Function API.
\$\$WHAT^XUAF4	#2171	Routine	Institution Single Field Information Function API

Table 6-13. Supported references for the IFR-related software—Alphabetized by entry point



REF: For more information on the APIs associated with the IFR-related software, please refer to Chapter 5, "Application Program Interfaces (APIs)," in this manual.

Controlled Subscription References

These are the Kernel Controlled Subscription Integration Agreements for Institution File Redesign (IFR)-related software. They contain attributes/functions that *must* be controlled in their use. They have been recorded as a Controlled Subscription references in the IA database on FORUM. Permission to use them is granted by the custodian package (i.e., Kernel) on a one-by-one basis.

The Controlled Subscription Integration Agreements (IAs) are listed alphabetically by Entry Point below:

Entry Point Or Global Root	IA#	Туре	Name
MAIN^XUMFI	#3354	Routine	Master File Message Builder API.
MAIN^XUMFP	#3354	Routine	Master File Parameter API.

Table 6-14. Controlled subscription references for the IFR-related software—Alphabetized by entry point



REF: For more information on the APIs associated with the IFR-related software, please refer to Chapter 5, "Application Program Interfaces (APIs)," in this manual.

General Instructions for Obtaining Integration Agreements

To obtain the current list of active IAs of which Kernel, which includes Institution File Redesign (IFR), is a custodian:

- **1.** Sign on to the FORUM system.
- 2. Select the DBA menu [DBA].
- **3.** Select the Integration Agreements Menu [DBA IA ISC].
- **4.** Select the Custodial Package Menu [DBA IA CUSTODIAL MENU].
- **5.** Choose the ACTIVE by Custodial Package option [DBA IA CUSTODIAL].
- **6.** Enter **KERNEL** at the "Select PACKAGE NAME:" prompt. You may have to further refine your selection, if presented with a list of similarly named packages.
- **7.** Choose the device to display the list of IAs.
- **8.** All current active IAs for which the Kernel package is custodian are listed.

To obtain detailed information about a specific integration agreement:

- **1.** Sign on to the FORUM system.
- **2.** Select the DBA menu [DBA].
- **3.** Select the Integration Agreements Menu [DBA IA ISC].
- **4.** Choose the Inquire option [DBA IA INQUIRY].
- **5.** Enter the integration agreement number of the IA you would like to display (e.g., DBIA2171) at the "Select INTEGRATION REFERENCES:" prompt.
- **6.** Choose the device to display the IA.
- 7. The full text of the requested IA will be displayed.

To obtain the current list of IAs that Kernel, which includes Institution File Redesign (IFR), is a subscriber to:

- **1.** Sign on to the FORUM system.
- **2.** Select the DBA menu [DBA].
- **3.** Select the Integration Agreements Menu [DBA IA ISC].
- **4.** Select the Subscriber Package Menu [DBA IA SUBSCRIBER MENU].
- 5. Choose the Print ACTIVE by Subscribing Package option [DBA IA SUBSCRIBER].
- **6.** Enter **KERNEL** (in uppercase) at the "START WITH SUBSCRIBING PACKAGE: FIRST//" prompt.
- 7. Enter **KERNEL** (in uppercase) at the "GO TO SUBSCRIBING PACKAGE: LAST//" prompt.
- **8.** Choose the device to display the list of IAs.

9. All current active IAs to which the Kernel package is a subscriber are listed.

Internal Relations

The following options were originally exported with the IFR-related software (i.e., Kernel Patch XU*8.0*206):

- Institution Master File Edit option [XUMF FORUM INSTITUTION]
- Institution File Query / Update option [INSTITUTION FILE QUERY / UPDAT XUMF INSTITUTION]
 - 1

NOTE: The Institution File Query / Update option [XUMF INSTITUTION] was disabled with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup) to prevent sites that have already initially cleaned up their INSTITUTION file (#4) from running the option again. It should be used only in development accounts, at CMOPs, or at any VistA site that has never done the cleanup and fully loaded the Institution table.

The following option is associated with the original IFR-related software release (i.e., Kernel Patch XU*8.0*206), however, it is *not* exported with nor modified by Kernel Patch XU*8.0*206:

- Institution Edit option [XU-INSTITUTION-E]
- **REF:** For a complete list of *all* options exported with the Institution File Redesign (IFR)-related software (including all IFR-related patches), please refer to Table 7-2 in Chapter 7, "Software Product Security," in this manual.

Also, the following List Manager actions are exported with Kernel Patch XU*8.0*206:

- **LLCL**—List local station numbers.
- **NATL**—List national data to merge.
- **DSTA**—Delete local/dup. station #.
- **RDSN**—Resolve duplicate station numbers.
- **AUTO**—Auto update with national data.
- **CHCK**—Required clean up actions.
- **REF:** For the minimum VistA software and patches required before installing IFR-related software, please refer to the "Installation Instructions" topic in this chapter.

Namespace

The Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206) uses Kernel's **XU** namespace. All routines and globals used in Kernel Patch XU*8.0*206 begin with **XUMF**.

File Numbers

The following file numbers and global locations are established with the IFR-related software:

File #	Global
4	^DIC(4,
4.001	^DIC(4.001,
4.1	^DIC(4.1,

Table 6-15. File and global information for the IFR-related software

The full Data Dictionaries for the INSTITUTION (#4) and the FACILITY TYPE (#4.1) files are being exported with Kernel Patch XU*8.0*206. The new field and changed field definitions are transported in the KIDS transport global and installed at the site.



REF: For specific information on added, modified, and deleted fields, please refer to the "Institution File Data Dictionary Modifications" and "Facility Type File Data Dictionary Modifications" topics in Chapter 4, "Data Dictionary Modifications," in this manual.

Software-wide Variables

The following software-wide variable is contained within the Institution File Redesign (IFR)-related software, as of Kernel Patch XU*8.0*299:

Variable	Description
XUMF	Flag to enable editing standard entries.

Table 6-16. Software-wide variables for the IFR-related software

7. Software Product Security

The Institution Master File (IMF) and Facility Type Master File (FMF) are only accessible on FORUM. All FORUM security protocols are followed.

- Only *national* entries are stored in the Institution Master File (IMF) and Facility Type Master File (FMF) on FORUM.
- Updates to the *national* entries in the IMF (i.e., INSTITUITION file [#4]) on FORUM can only be made with the Institution Master File Edit [XUMF FORUM INSTITUTION] option, which is available only on FORUM.
- The XUMF FORUM INSTITUTION option is locked with the XUMF INSTITUTION security key. The FORUM Institution Master File Administrators are the only people to hold this security key.

Mail Groups

The following mail groups are exported with the IFR-related software:

MAIL GROUP	DESCRIPTION
XUMF ERROR	As of Kernel Patch XU*8.0*299, the XUMF ERROR mail group receives Master File Server (MFS) update error notifications.
	The Local Site is responsible for populating (i.e., Mail Group Coordinator), maintaining, and monitoring this mail group. The mail group should be populated with the appropriate personnel who are to be notified of any errors that may occur when the MFS is updating national entries in a standard table.
XUMF INSTITUTION	The XUMF INSTITUTION mail group receives bulletins sent via VistA's MailMan software regarding updates to the site's INSTITUTION file (#4). The mail group at the site is notified when their local INSTITUTION file (#4) has been automatically updated with <i>national</i> entries from the Institution Master File (IMF) on FORUM via the Master File Server (MFS).
	The Local Site Institution Master File Administrators are responsible for populating (i.e., Mail Group Coordinator), maintaining, and monitoring this mail group. The mail group should be populated with the appropriate personnel who are to be notified of any add/edits to national entries in the local site's INSTITUTION file (e.g., Local Site Institution Master File Administrator[s], IRM Chief, ADPAC[s], etc.).
XUMF SERVER	The XUMF SERVER mail group receives Master File Server (MFS)-related messages (on FORUM and at the site).
	The Local Site Institution Master File Administrators are responsible for populating (i.e., Mail Group Coordinator), maintaining, and monitoring this mail group. The mail group should be populated with the appropriate personnel who are to be notified of any general server-related messages (e.g., errors).

Table 7-1. Mail groups exported with the IFR-related software



REF: For information regarding bulletins, please refer to the "Bulletins" topic under the "Maintenance" topic in Chapter 6, "Implementation and Maintenance," in this manual.

Remote Systems

Kernel Patch XU*8.0*206 uses the Master File Server (MFS) to automatically transmit national INSTITUTION file data to update the INSTITUTION file (#4) located at all sites VHA-wide.

An HL7 (Messaging & Interface Services [M&IS]) interface specification for interaction with the Master File Server (MFS) has been defined. VistA's VA MailMan and HL7 (Messaging & Interface Services [M&IS]) software, utilizing bi-directional data transmission of HL7 messages over TCP/IP, provides

support for communication between the FORUM (server) and VHA site (client) applications. The anticipated frequency for data transmission is approximately two to eight times per month. The data transmitted is *not* encrypted.

Archiving and Purging

There are no software-specific archiving and purging procedures or recommendations for the IFR-related software (i.e., Kernel Patch XU*8.0*206).

Interfaces

Hardware Interfaces

The INSTITUTION file (#4) and FACILITY TYPE file (#4.1) components continue to function on the standard hardware platforms employed by Department of Veterans Affairs healthcare facilities. These systems consist of Alpha AXP (running DSM) or Alpha/NT (running OpenM).

Software Interfaces

The INSTITUTION (#4) and FACILITY TYPE (#4.1) files, as well as other master files, are integral components of VistA and are referenced by numerous software applications. An HL7 (Messaging & Interface Services [M&IS]) interface specification for interaction with the Master File Server (MFS) has been defined with Kernel Patch XU*8.0*206.

The MFS and VistA's HL7 software provide the following functionality:

- Broadcast Updates—Implements a server mechanism to broadcast FORUM's Institution Master File (IMF) updates VHA-wide.
- **Handle Update Message**—Implements a message handler to update the site's local INSTITUTION file (#4).
- Query Server—Provides functionality to query FORUM's Institution Master File and Facility Type Master File.
- **Handle Query Response**—Provides functionality to handle query responses.
- Track Station Number Changes—Tracks Station Number changes in the INSTITUTION file (#4) via bulletins/e-mail messages and the VistA HL7 software.
- **Application Program Interfaces (APIs)**—Provides Application Program Interfaces (APIs) to set up required parameters to build and send HL7 messages.
 - **REF:** For more information on the APIs, please refer to Chapter 5, "Application Program Interfaces (APIs)," in this manual.
- **REF:** For more information on the Master File Server (MFS), please refer to the "Master File Server (MFS)" topic in Chapter 1, "Introduction," in this manual.



REF: For a list of HL7 Application Parameters, HL7 Logical Link, and Master File Server Protocols associated with the IFR-related software, please refer to the "Maintenance" topic in Chapter 6, "Implementation and Maintenance," in this manual.

Communications Interfaces

VistA's VA MailMan and HL7 (Messaging & Interface Services [M&IS]) software, utilizing bidirectional data transmission of HL7 messages over TCP/IP, provides support for communication between the VHA site (client) and FORUM (server) applications.

Kernel Patch XU*8.0*206 created the XUMF INSTITUTION mail group in MailMan to receive bulletins regarding updates to the INSTITUTION file (#4). Sites are responsible for populating this mail group with the appropriate personnel (e.g., IRM Chief, ADPAC, etc.).

Kernel Patch XU*8.0*299 created the XUMF ERROR mail group in MailMan. Members in this group will be notified of errors that may occur when the MFS is updating national entries in a standard table. Sites are responsible for populating this mail group with the appropriate personnel.

- **REF:** For more information on the mail groups exported with IFR-related software, please refer to the "Mail Groups" topic in this chapter.
- **REF:** For a list of Bulletins associated with IFR-related software, please refer to the "Bulletins" topic under the "Maintenance" topic in Chapter 6, "Implementation and Maintenance," in this manual.

Electronic Signatures

There are no electronic signatures used in the IFR-related software (i.e., Kernel Patch XU*8.0*206).

Menus/Options

The following options are exported with the IFR-related software:

Option Name	Option Title	Description
XUMF DMIS ID LOAD	Load DMIS ID's	This option was introduced with Kernel Patch XU*8.0*218. It is used to queue a TaskMan task that queries the Institution Master File (IMF) using HL7 messaging to get a copy of the DoD facilities in the IMF. These facilities are then added to the local Institution file. This option is locked with the XUMF INSTITUTION security key.
		CAUTION: We recommend that only the VA CMOP facilities that require these DoD facilities use this option at this time.
XUMF FORUM INSTITUTION	Institution Master File Edit	This option was introduced with Kernel Patch XU*8.0*206. It is available only on FORUM. It is locked with the XUMF INSTITUTION security key. This option is used to update entries in the FORUM Institution Master File (IMF).
XUMF IMF ADD EDIT	IMF edit	This option was introduced with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup); it replaces the IMF address edit option [XUMF IMF ADD EDIT] introduced with Kernel Patch XU*8.0*217. It allows the site to edit their INSTITUTION file (#4) entries (i.e., those entries that share the same 3-digit Station Number as the current users logon division) and generates an HL7 update message to update the Institution Master File (IMF) on FORUM.

Option Name	Option Title	Description
XUMF IMF EDIT STATUS	IMF Display Cleanup Status	This option was introduced with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup). It lists all your facilities that need updating. It also lists the fields that are missing data. It's a good idea to list this information before editing your data.
XUMF INSTITUTION	Institution File Query / Update	This option was disabled with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup) to prevent sites that have already initially cleaned up their INSTITUTION file (#4) from running the option again. It should be used only in development accounts, at CMOPs, or at any VistA site that has never done the cleanup and fully loaded the Institution table.
		This option was originally introduced with Kernel Patch XU*8.0*206. It was used to update entries in the local site's INSTITUTION file (#4).
XUMF LOAD INSTITUTION	Update/refresh Institution file with IMF data	This option was introduced with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup). It loads the current IMF data into the INSTITUTION file (#4).
		NOTE: The XUMF LOAD INSTITUTION option will not be completely successful if there are duplicate station numbers. The cleanup fixes/removes duplicates (see the "Institution File Cleanup Process—Initial" topic in Chapter 2, "Local Site IMF Administrator Duties," in this manual). Thus, the cleanup is a required first step before you can get updates, get the national table, or use the XUMF LOAD INSTITUTION option.

Option Name	Option Title	Description
XUMF LOAD NPI	Load Institution NPI values	This option was introduced with Kernel Patch XU*8.0*416.
		This option is to be used only in the case the National Provider Identifier (NPI) values fail to load in the post install or if it should become necessary to reload the NPI values (e.g., NPI values become corrupt or the data otherwise needs to be refreshed).
		This option is used to edit institution data, including NPI and Taxonomy codes, selectable by coding system (e.g., NPI, Department of Defense [DOD], or Clinical Laboratory Improvement Amendments [CLIA]) and Identifier pair (for beta testing made target site, for Health Level seven [HL7] unsolicited update message, selectable rather than publish nationally).
XUMF335 clean 4.1 and 4	Patch XU*8*335 clean 4.1 and 4	This option was introduced with Kernel Patch XU*8.0*335 (i.e., HealtheVet cleanup). It queries the IMF for the latest copy of Institution data—updating the local INSTITUTION file (#4). All INACTIVE facilities have the NAME (#.01) ZZ'd and the VISN and PARENT FACILITY associations removed. It removes facility types before getting new values, so it should be run after hours.
		NOTE: This option should be run at a later date after all sites have completed editing.

Table 7-2. Menu options exported with IFR-related software

Security Key

The following security key is exported with the IFR-related software (i.e., Kernel Patch XU*8.0*206):

Security Key	Description
XUMF INSTITUTION	The XUMF INSTITUTION security key is exported with Kernel Patch XU*8.0*206. The XUMF FORUM INSTITUTION option exported with Kernel Patch XU*8.0*206 is locked with this security key. The FORUM Institution Master File Administrators are the only people to hold this security key.

Table 7-3. Security keys exported with IFR-related software

File Security

The following file security is established with the IFR-related software:

File #	File Name	DD	RD	WR	DEL	LAYGO	AUDIT
4	INSTITUTION	#		-	#		
4.001	MASTER FILE PARAMETERS	@	@	@	@	@	@
4.1	FACILITY TYPE						

Table 7-4. File security for files exported with IFR-related software

References

The following directive specifies Station Number distribution requirements with regards to the IMF file updates associated with the IFR-related software (i.e., Kernel Patch XU*8.0*206):

Per VHA DIRECTIVE 97-058, which provides guidance for the assignment of Station Number suffix identifiers for outpatient clinic facilities, all outpatient clinic facilities will be given a Station Number suffix identifier. Requests to add or delete an outpatient clinic are submitted to the Director, Information Management Service (045A4) through the Chief Network Office (10N) at VHA Headquarters. The Network Management Support Office (10NA) notifies the respective VISN of the approved Station Number suffix identifier.



REF: For further reference information, please refer to "Appendix A—Reference Materials" in this manual.

Official Policies

No additional legal requirements are imposed on VistA by the Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206) users, nor does the IFR-related software relieve users of any previously established requirements.

Distribution of the Institution File Redesign (IFR)-related software (i.e., Kernel Patch XU*8.0*206) is unrestricted.

Software Product Security

Glossary

ADPAC Automated **D**ata **Processing Application Coordinator**.

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.

CIRN Clinical Information Resource Network.

DATA DICTIONARY (DD) The **D**ata **D**ictionary is a global containing a description of what kind of

data is stored in the global corresponding to a particular file. VA FileMan uses the data internally for interpreting and processing files.

A Data Dictionary contains the definitions of a file's elements (fields or data attributes); its relationship to other files; and the file 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.

FACILITY Geographic location at which VA business is performed.

FMF Facility Type Master File.

HEALTH LEVEL SEVEN

(HL7)

National level standard for data exchange in all healthcare environments

regardless of individual computer application systems.

IMF Institution Master File.

INSTITUTION A 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).

INSTITUTION MASTER FILE ADMINISTRATORS

The person or persons responsible for the maintenance of and updates to

the master files either on FORUM or at a local site.

LEGACY FACILITY An integrated facility. When two or more facilities integrate, the legacy

facilities become DIVISIONS of the primary facility.

MASTER FILES A set of common reference files used by one or more applications.

MFN Master File Notification (HL7 segment).

MFQ Master File Query (HL7 segment).

MFR Master File Response (HL7 segment)

MFS Master File Server.

MPI/PD Master Patient Index/Patient Demographics

NDBI National Data Base Integration.

NPI National Provider Identifier (a.k.a. National Provider Identifier).

PARENT FACILITY A station that has one or more facilities under the auspices of its

director.

0

NOTE: Kernel Patch XU*8.0*294 prevents the adding of a VISN or PARENT FACILITY association to an Institution entry that does not have a corresponding PARENT OF ASSOCIATION.

Kernel Patch XU*8.0*335 (i.e., Healthe Vet cleanup) pointed all child facilities to their administrative parent. The parent, or primary facility, points to its parent (HCS or VISN). The HCS entries point to a VISN entry. All parent relationships eventually resolve to a VISN.

STATION A field facility or group of field facilities.

STATION NUMBER A unique identifier assigned to any organizationally meaningful

grouping of stations or facilities.

VAST Veterans Affairs Station Tracker.



REF: For a comprehensive list of commonly used infrastructure- and security-related terms and definitions, please visit the ISS Glossary Web page at the following Web address:

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

For a comprehensive list of acronyms, please visit the ISS Acronyms Web site at the following Web address:

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

Appendix A—Reference Materials

The following is a list of supporting documents that were reviewed and contributors that were consulted throughout this project. Much of the content/information has been utilized/incorporated in the IFR (i.e., Kernel Patch XU*8.0*206) software and documentation (documents listed in date order—earliest to latest):

- VHA DIRECTIVE 97-058, Dated November 24, 1997
- Institution Identification Design Specification draft, Dated January 6, 1998
- <u>INSTITUTION FILE CLEAN-UP</u>, Exchange e-mail message thread initiated by DBA REDACTED
- <u>INSTITUTION FILE REDESIGN PROJECT</u>, Initial Requirements Analysis (IRA), Dated April 2, 1998, Revised July 11, 1998
- REPORT OF TECHNICAL REVIEW: INSTITUTION FILE REDESIGN, Exchange e-mail message thread initiated REDACTED December 21, 1998
- Institution File Redesign Project [#28736294] 08 Jan 99, From: REDACTED
- INSTITUTION/FM DBIA [#29276272] 24 Mar 99, From: REDACTED
- <u>REPORT OF TECHNICAL REVIEW: INSTITUTION FILE REDESIGN, PHASE 2</u>, e-mail message thread initiated by REDACTED
- <u>VAST STATIONS</u>, Exchange e-mail message thread initiated REDACTED of Office of Policy and Planning, Dated July 27, 1999
- <u>STATION NUMBER INVENTORY</u>, Exchange e-mail message thread initiated by REDACTED of CO, Dated September 22, 1999
- <u>STATION TABLE</u>, Exchange e-mail message thread initiated by REDACTED, Dated September 22, 1999
- FYI: SHOULD BE PART OF FILE 4 CLEANUP, Exchange e-mail message thread initiated by REDACTED, Dated November 15, 1999
- INSTITUTION FILE PATCH ISSUES, Exchange e-mail message thread initiated REDACTED
- NED AND DATA QUALITY ISSUES, Exchange e-mail message thread initiated by REDACTED
- <u>STATION NUMBERS/INSTITUTION FILE</u>, Exchange e-mail message thread initiated by REDACATED
- INSTITUTION FILE UPDATES, Exchange e-mail message thread initiated by REDACTED
- <u>2/18 INSTALL</u>, Exchange e-mail message thread initiated by REDACTED, Dated February 22, 2000
- <u>Institution GOLD file</u> [#30950058] 02 Mar 00, From: REDACTED
- Institution file clean up [#30977229] 08 Mar 00, From: REDACTED
- INSTITUTION File (#4) Redesign project [#31043748] 22 Mar 00, From: REDACTED
- FORUM INSTITUTION FILE [#31069930] 28 Mar 00, From: REDACTED

- <u>Problem with Record Tracking and CIRN</u>, Exchange e-mail message thread initiated by REDACTED
- <u>Institution file patch impacts on HEC</u>, Exchange e-mail message thread initiated by REDACTED
- 1

REF: For a list of other acknowledgements for this project, please refer to the "Acknowledgements" section in this manual.

Appendix B—Facility Type Acronyms

The following table lists the current TYPE acronyms/codes and their associated Full Name/Definition:

Type (Acronym)	Full Name (Description)
AIMC	ACADEMIC AFFAIRS INF. MGMT CENTER
AO	AREA OFFICE
AR	ACCOUNTS RECEIVABLE
BDC	BENEFITS DELIVERY CENTER
BIRLS	BENEFICIARY INFORMATION RECORD LOCATOR SYSTEM
CBOC	COMMUNITY BASED OUTPATIENT CLINIC
CC	CONFEDERATE CEMETERY
CHAMPUS	CIVILIAN HEALTH AND MEDICAL PROGRAM OF THE UNIFORMED SERVICES
CHAMPVA	CIVILIAN HEALTH AND MEDICAL PROGRAM VETERANS ADMINISTRATION
CHEP	COOPERATIVE HEALTH EDUCATION PROGRAM
CIVH	CIVILIAN HOSPITAL
СМ	CONFEDERATE MONUMENT
СМОРС	CONSOLIDATED MAIL OUTPATIENT PHARMACY
СО	CENTRAL OFFICE
СР	CONFEDERATE PLOT
D	DOMICILIARY
DEC	DENTAL EDUCATION CENTER
DENT	DENTAL CLINIC
DOD	DEPARTMENT OF DEFENSE
DPC	VA DATA PROCESSING CENTER
EES	EMPLOYEE EDUCATION SYSTEMS
ETC	ENGINEERING TRAINING CENTER
GC	GENERAL COUNSEL
GL	GOVERNMENT LOT
HOST	HOSPITAL OPEN SYSTEMS TECHNOLOGY
IG	INSPECTOR GENERAL
HIS	INDIAN HEALTH SERVICE
IHSD	IHS DEVELOPMENT CENTER
IVMP	INCOME VERIFICATION MATCH PROGRAM

Type (Acronym)	Full Name (Description)
M&ROC	MEDICAL AND REGIONAL OFFICE CENTER
MC(M)	MEDICAL CENTER (MEDICAL LOCATION)
MORC	MOBILE OUTREACH CLINIC
MPI	MASTER PATIENT INDEX
MSN	MEMORIAL SERVICE NETWORK
MUG	MUMPS USERS GROUP
NAC	NATIONAL ACQUISITION CENTER
NC	NATIONAL CEMETERY
NCSO	NATIONAL CEMETERY STATION OFFICE
NHC	NURSING HOME CARE
NIB	NATIONAL INDUSTRIES FOR THE BLIND
NOA	NOTICE OF APPEAL
NVA	FEDERAL HOSPITAL (OTHER)
OC	OUTPATIENT CLINIC (INDEPENDENT)
OCMC	OUTPATIENT CLINIC (SUBORDINATE)
ocs	OUTPATIENT CLINIC SUBSTATION
OIFO	OFFICE OF INFORMATION FIELD OFFICE
OIG/ROA	REGIONAL OFFICE OF AUDIT
OIG/ROI	REGIONAL OFFICE OF INVESTIGATIONS
OIG/SOA	SUB OFFICE OF AUDIT
OPC	OUT PATIENT CLINIC
ORC	OUTREACH CLINIC
OTHER	OTHER
PDC	PROSTHETIC DISTRIBUTION CENTER
PHARM	PHARMACY
PHS	PUBLIC HEALTH SERVICE HOSPITAL
PRDC	PROSTHETICS RESEARCH AND DEVELOPMENT CENTER
PRRTP	PSYCHOLOGICAL RESIDENTIAL REHAB TREATMENT PROGRAM
PUBH	PUBLIC HOSPITAL
RO	REGIONAL OFFICE
RO&IC	REGIONAL OFFICE AND INSURANCE CENTER
RO-OC	REGIONAL OFFICE - OUTPATIENT CLINIC
RPC	RECORDS PROCESSING CENTER

Type (Acronym)	Full Name (Description)
RPVM	REPUBLIC OF PHILIPPINES VETERANS MEMORIAL
SARRTP	SUBSTANCE ABUSE REHAB TREATMENT PROGRAM
SD	SUPPLY DEPOT
SDC	SYSTEMS DEVELOPMENT CENTER
SL	SOLDIERS LOT
SOC	SATELLITE OUTPATIENT CLINIC
STDIR	STATE DIRECTORS OF VA
STDM	STATE DOMICILIARY
STHH	STATE HH
STNB	STATE NURSING BEDS
SVH	STATE VETERANS HOME
USAF	US AIR FORCE HOSPITAL
USAH	US ARMY HOSPITAL
USCG	US COAST GUARD HOSPITAL
USMC	US MARINE CORP HOSPITAL
USNH	US NAVAL HOSPITAL
VAIP	VA INSURANCE PAYMENT
VAMC	VA MEDICAL CENTER
VANB	VA NURSING BEDS
VANPH	NEURAL PSYCHIATRIC HOSPITAL
VASDC	VA SERVICE & DISTRIBUTION CENTER
VBA	VETERANS BENEFITS ADMINISTRATION
VBAML	VBA MORTGAGE LOAN
VCSFC	VETERANS CANTEEN SERVICE FINANCE CENTER
VCSFO	VETERANS CANTEEN SERVICE FIELD OFFICE
VEND/CONS	VENDOR/CONSULTANT
VET CENTER	VETERANS CENTER
VISN	VETERANS INTEGRATED SERVICE NETWORK

Table B-1. Facility type acronyms

Appendix B—Facility Type Acronyms

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