

Kernel 8.0 and Kernel Toolkit 7.3

Technical Manual



December 2019

Department of Veterans Affairs (VA)
Office of Information and Technology (OIT)
Enterprise Program Management Office (EPMO)

Revision History

Date	Revision	Description	Author
12/09/2019	5.6	<p>Tech Edits for Kernel Patches XU*8.0*607 and 608: Kernel Lock Manager Utility:</p> <ul style="list-style-type: none"> Added “XULM” routines to Table 9. Added “XLM” global to Table 12. Added “XULM” files to Table 15. Updated XUSITEMGR menu diagram for the Lock Manager options in Figure 10. Added “XULM” protocols to Table 20. Added “XULM” options to and updated options for Operations Management [XUSITEMGR] menu in Table 24. Added “XULM” APIs to Table 27. Added “XULM” RPCs to Table 29. Added “XULM” security keys to Table 36. <p>Software Versions:</p> <ul style="list-style-type: none"> Kernel 8.0 Toolkit 7.3 	VistA Infrastructure (VI) Development Team
07/24/2019	5.5	<p>Tech Edits for Kernel Patch XU*8.0*711:</p> <ul style="list-style-type: none"> Added the XUMVIENU and XUMVINPA routine entries in Table 9. Added the XUS MVI ENRICH NEW PERSON RPC entry in Table 29. <p>Tech Edits for Kernel Patch XU*8.0*693:</p> <ul style="list-style-type: none"> Updated the XUSERDEAC bulletin entry in Table 35. Added the XUSERDIS bulletin entry in Table 35. <p>Software Versions:</p>	VistA Infrastructure (VI) Development Team

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		<ul style="list-style-type: none"> • Kernel 8.0 • Toolkit 7.3 	
10/11/2018	5.4	<p>Tech Edits for Kernel Patch XU*8.0*690:</p> <ul style="list-style-type: none"> • Updated the “ALERT CRITICAL TEXT” entry in Table 15. • Updated the “XQAL ALERT LIST FROM DATE,” “XQAL CRITICAL ALERT COUNT,” and “XQAL USER ALERTS COUNT” entries in Table 24. <p>Software Versions:</p> <ul style="list-style-type: none"> • Kernel 8.0 • Toolkit 7.3 	VistA Infrastructure (VI) Development Team
10/09/2018	5.3	<p>Tech Edits for Kernel Patch XU*8.0*672:</p> <ul style="list-style-type: none"> • Added the XU8P672E routine to Table 9. • Updated the XPDMENU entry in Table 27 for Kernel Patch XU*8.0*672: Added the LOCK and RLOCK tags. <p>Software Versions:</p> <ul style="list-style-type: none"> • Kernel 8.0 • Toolkit 7.3 	VistA Infrastructure (VI) Development Team
08/22/2018	5.2	<p>Updates for Kernel Patch XU*8.0*679:</p> <ul style="list-style-type: none"> • Added Section 15.5.1, “Electronic Signature Restrictions.” • Added the XU SIG BLOCK DISABLE parameter to Table 5. • Added the XUSESIG2 and XUSESIG3 routines to Table 9. • Modified the XUSESIG BLOCK option (Type and Routine columns) and added the XUSESIG DEG option in Table 24. • Added the XUSIG security key to Table 36. 	REDACTED

Date	Revision	Description	Author
		Software Versions: <ul style="list-style-type: none"> • Kernel 8.0 • Toolkit 7.3 	
08/15/2018	5.1	<p>Tech Edits: Final merge of all remaining content in the <i>Kernel Toolkit Technical Manual</i> into the <i>Kernel 8.0 & Kernel Toolkit 7.3 Technical Manual</i> (this manual):</p> <ul style="list-style-type: none"> • Added the following sections for Kernel Toolkit: <ul style="list-style-type: none"> ○ Section 1.1, “Kernel.” ○ Section 1.2, “Kernel Toolkit.” ○ Section 1.2.1, “Multi-Term Look-Up (MTLU).” ○ Section 1.2.2, “Duplicate Resolution Utilities.” ○ Section 2.11, “Implementing Multi-Term Look-Up.” ○ Section 2.12, “Implementing Duplicate Resolution Utilities.” ○ Section 2.13, “Configuring VAX/Alpha Performance Monitor (VPM).” <p>Software Versions:</p> <ul style="list-style-type: none"> • Kernel 8.0 • Toolkit 7.3 	VistA Infrastructure (VI) Tech Writer: REDACTED
01/23/2018	5.0	<p>Tech Edits:</p> <ul style="list-style-type: none"> • Changed the XUS SIGNON SETUP RPC in Table 29 from “RESTRICTED” to “PUBLIC,” as per developer, H. W. • Added an ICR column to Table 29 to list any known ICRs associated with RPCs. • Updated the XUS GET VISITOR and XUS SET VISITOR RPCs in Table 29. • Updated Section 4 and Table 15; and Section 15.7 and Figure 20 for missing Toolkit files: 15.2, 15.3, and 15.4. • Updated many sections with content extracted from the <i>Assign Person Class to Providers Patch</i> 	VistA Infrastructure (VI) Development Team

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		<p><i>Supplement</i> document (e.g., routines, files, fields, globals, options, etc.).</p> <ul style="list-style-type: none"> Modified/Removed VAH and MGR references (REDACTED): <ul style="list-style-type: none"> Retitled and updated Section 14.1 to “Globals in Production Accounts.” Removed reference to “VAH and updated Table 34. Merged content from Table 34 into Table 34. Deleted Section 14.2, “Globals in MGR Account.” Added Caution note regarding modification of Kernel routines in the “Software Disclaimer” section. Added the “System Management Menus” section and sub-sections from the Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide into this document. Replaced “Integration Agreement (IA)” with “Integration Control Registration (ICR)” throughout the document. Added Table 10 in Section 3.2; added routines exported with the Broker Security Enhancement (BSE) software. Updated the XUS SET VISITOR RPC in Table 29. Kernel Patch XU*8.0*605: Added the IPV tool options (XLFIPV*) to Figure 10 and Table 24. Added the following parameters to the KERNEL SYSTEM PARAMETERS (#8989.3) File in Table 3: <ul style="list-style-type: none"> ORGANIZATION (#200.2) ORGANIZATION ID (#200.3) SECURITY TOKEN SERVICE (#200.1) Added the XUEXISTING USER parameter to the KERNEL 	

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		<p>PARAMETERS (#8989.2) File in Table 4.</p> <ul style="list-style-type: none"> Added the following parameters to the PARAMETER DEFINITION (#8989.51) File in Table 5: <ul style="list-style-type: none"> XU522 XU594 XU645 Added the following routines to Table 9: <ul style="list-style-type: none"> XLFSPAN XUCERT XUCERT1 XUESSO1 XUESSO2 XUESSO3 XUESSO4 XUSAML Added the REMOTE APPLICATION (#8994.5) file to Table 15. Added the RPC Broker Management Menu [XWB MENU] to Table 24. Changed the XUS GET USER INFO RPC in Table 29 from "PUBLIC" to "RESTRICTED." Reformatted document to follow latest documentation standards and formatting rules. Also, formatted document for online presentation vs. print presentation (i.e., for double-sided printing). These changes include: <ul style="list-style-type: none"> Revised section page setup. Removed section headers. Revised document footers. Removed blank pages between sections. Revised all heading style formatting. Updated organizational references (e.g., "Product 	

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		<p>Development [PD]" to "Enterprise Program Management Office [EPMO]).</p> <ul style="list-style-type: none"> Redacted document for the following information: Names (replaced with role and initials). Production IP addresses and ports. VA Intranet websites. Server geographic locations and node names. <p>Software Versions:</p> <ul style="list-style-type: none"> Kernel 8.0 Toolkit 7.3 	
07/19/2017	4.2	<p>Tech Edits Kernel Patch XU*8.0*671:</p> <ul style="list-style-type: none"> Updated Person Class File #8932.1 in Table 15. Added updated description: Per VHA Directive 2005-044, this file has been "locked down" by Data Standardization (DS). The file definition (i.e., data dictionary) <i>shall not</i> be modified. All additions, changes and deletions to entries in the file <i>shall</i> be done by Enterprise Reference Terminology (ERT) using the Master File Server (MFS), provided by Common Services (CS). Reviewed the updated section for Section 508 compliance. <p>Software Versions:</p> <ul style="list-style-type: none"> Kernel 8.0 Toolkit 7.3 	<p>Developers: REDACTED (ManTech Mission Solutions & Services Group)</p> <p>Technical Writer: REDACTED ManTech Mission Solutions & Services Group)</p>
05/31/2013	4.1	<p>Updates:</p> <ul style="list-style-type: none"> Updates for Patch XU*8.0*614 based on feedback from Herlan Westra: <ul style="list-style-type: none"> Added the Single User Menu Tree Rebuild [XQBUILDUSER] option to the "XUMAINT" section and menu tree diagram 	<p>Developers: REDACTED</p> <p>Technical Writer: REDACTED</p>

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		<p>in Figure 9 and in Table 24. It was attached to the Menu Rebuild Menu [XQBUILDMAN] option.</p> <ul style="list-style-type: none"> ○ Added the XQBUILDMAN option to Table 24. ○ Added the XQ LIST UNREFERENCED OPTIONS option to Table 24. ○ Added the XQ MENUMANAGER PROMPT parameter to Table 5. • Updated menu diagrams in Section 5.2.2 for: <ul style="list-style-type: none"> ○ XUTIO in Figure 8. ○ XUMAINT in Figure 9. ○ XUSITEMGR in Figure 10. ○ XUPROG in Figure 11. ○ XU-SPL-MGR in Figure 12. ○ XUSPY in Figure 13. ○ XUTM MGR in Figure 14. ○ XUSER in Figure 15. ○ ZTMQUEUEABLE OPTIONS in Figure 16. ○ XUCOMMAND in Figure 17. • Added the IP SECURITY ON field parameter to Table 3. • Reviewed and updated any missing APIs in the “Callable Entry Points” section. • Added bookmarks (identifiers) to all tables for Section 508 conformance. <p>Software Versions:</p> <ul style="list-style-type: none"> • Kernel 8.0 • Toolkit 7.3 	
04/30/2013	4.0	<p>Updates:</p> <ul style="list-style-type: none"> • Updated the following sections and tables for Kernel Patch XU*8.0*580: <ul style="list-style-type: none"> ○ Added the new XUEPCS REPORT DEVICE parameter to Table 5. 	REDACTED

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		<ul style="list-style-type: none"> ○ Added the following new ePCS routines to the “Routines” section in Table 9: <ul style="list-style-type: none"> – XUEPCSED – XUEPCSRT ○ Added the following new ePCS files to the “Files” section in Table 15: <ul style="list-style-type: none"> – XUEPCS DATA (#8991.6) file – XUEPCS PSDRPH AUDIT (#8991.7) file ○ Added the new ePCS options to the “Exported Options” section in Table 24. ○ Added the following new and modified ePCS APIs to the “Callable Entry Points” section in Table 27: <ul style="list-style-type: none"> – \$\$DEA^XUSER – \$\$DETOX^XUSE – \$\$SDEA^XUSER – \$\$VDEA^XUSER ○ Added the following new and modified RPCs to the “Remote Procedure Calls (RPCs)” section in Table 29: <ul style="list-style-type: none"> – XU EPCS EDIT – XUS PKI SET UPN – XUS PKI GET UPN – XWB GET VARIABLE VALUE ○ Added the XUSSPKI SAN bulletin to the “Bulletins” section in Table 35. ○ Added the XUEPCSEEDIT security key to the “Security Keys” section in Table 36. ● Reformatted document to follow current style guides and standards. ● Replaced references from “VA <i>FileMan Getting Started Manual</i>” 	

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		<p>to “VA FileMan User Manual,” since the next VA FileMan 22.n software version will be creating a new “VA FileMan Getting Started Manual.”</p> <ul style="list-style-type: none"> Added the “Kernel Parameter Definitions (#8989.51) File” section and Table 5. Added the “Remote Procedure Calls (RPCs)” section and Table 29. Added the “Bulletins” section and Table 35. Patch XU*8.0*546: Support for Device Hunt Groups was removed. This includes removal of the *HUNT GROUP (#29) and HUNT GROUP DEVICE (#30) fields in the DEVICE (#3.5) file. Sites had to remove any HUNT GROUP devices before installing this patch using VA FileMan to find any existing Hunt Groups. Chapter 18, “Hunt Groups” was deleted from this manual. Also, any references to “Hunt Groups” were removed. Patches XU*8.0*285: Added the ALERT RECIPIENT TYPE (#8992.2) file to Table 12 and Table 15. Patch XU*8.0*513: Added the ALERT CRITICAL TEXT (#8992.3) file to Table 12 and Table 15. Merging <i>Toolkit Technical Manual</i> content into <i>Kernel 8.0 & Kernel Toolkit 7.3 Technical Manual</i>. The Kernel Toolkit documentation set is being combined with the Kernel documentation set. All Kernel Toolkit content will eventually be moved to the appropriate Kernel manual, section, and chapter. <p>In the <i>Kernel 8.0 & Kernel Toolkit 7.3 Technical Manual</i>, all of the</p>	

Date	Revision	Description	Author
		<p>Kernel Toolkit references for routines, files, options, APIs, Direct Mode Utilities, etc. have been added to the appropriate chapter/section.</p> <ul style="list-style-type: none"> • Updated Table 24 option descriptions. • Changed Kernel document title references. • Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide (previously known as the Kernel Programmer Manual). • Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide (previously known as the Kernel Systems Manual). • Updates based on functionality/changes added with Kernel Patch XU*8.0*593: • Added the "XU USER START-UP" entry in Table 19. • Added the "XU USER START-UP" entry in Table 24. • Updated references to the VDL. • Updated all organizational references as needed (e.g., Enterprise Program Management Office [EPMO], removed all HSD&D references) • Removed obsolete references to MSM, PDP, 486, VAX Alpha, etc. and changed/updated references to DSM for OpenVMS to Caché where appropriate. • Updated "Orientation" section. • Updated the overall document for current national documentation standards and style guides. For example: <ul style="list-style-type: none"> • Changed all Heading <i>n</i> styles to use Arial font. • Changed all Heading <i>n</i> styles to be left justified. • Added blue font highlighting and 	

Date	Revision	Description	Author
		<p>underline to signify internal links to figures, tables, or sections for ease of use, similar to what one sees to hyperlinks on a Web page.</p> <ul style="list-style-type: none"> Updated document for Section 508 conformance using word's built-in Accessibility check: <ul style="list-style-type: none"> Added table bookmarks. Added screen tips for all URL links. Changed all floating callout boxes to in-line, causing reformatting of numerous dialogue screen captures. <p>Software Versions:</p> <ul style="list-style-type: none"> Kernel 8.0 Toolkit 7.3 	
01/24/2006	3.0	<p>Updates:</p> <ul style="list-style-type: none"> Reformatted document to follow the latest ISS SOP Guidelines. Updated files, routines, options, APIs, security keys, etc. <p>Software Version: 8.0</p>	<p>OIFO:</p> <ul style="list-style-type: none"> REDACTED
02/03/2005	2.0	<p>Reformatted document to follow the latest ISS styles and guidelines. No other content updates have been made in regard to released patches at this time.</p> <p>Reviewed document and edited for the "Data Scrubbing" and the "PDF 508 Compliance" projects.</p> <p>Data Scrubbing—Changed all patient/user TEST data to conform to OIT standards and conventions as indicated below:</p> <ul style="list-style-type: none"> The first three digits (prefix) of any Social Security Numbers (SSN) start with "000" or "666." Patient or user names are formatted as follows: KRNPATIENT,[N] or KRNUSER,[N] respectively, where the N is a number written 	<p>Technical Writer: REDACTED OIFO</p>

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		<p>out and incremented with each new entry (e.g., KRNPATIENT, ONE, KRNPATIENT, TWO, etc.).</p> <ul style="list-style-type: none"> Other personal demographic-related data (e.g., addresses, phones, IP addresses, etc.) were also changed to be generic. <p>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).</p> <p>Software Version: 8.0</p>	
07/--/1995	1.0	<p>Initial Kernel 8.0 software and documentation release</p> <p>Software Version: 8.0</p>	<p>Office of Information Field Office (OIFO):</p> <ul style="list-style-type: none"> Project Manager: REDACTED Developers: Kernel Development Team Technical Writer: REDACTED

Patch Revisions

For the current patch history related to this software, see the Patch Module on FORUM.

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Orientation

How to Use this Manual

Throughout this manual, advice and instruction are offered about Kernel 8.0 and Kernel Toolkit 7.3 routines, files, options, application program interfaces (APIs), direct mode utilities, and other system-related information provided for overall Veterans Health Information Systems and Technology Architecture (VistA) system management and application developers.

Intended Audience

The intended audience of this manual is the following stakeholders:

- System Administrators—System administrators at Department of Veterans Affairs (VA) sites who are responsible for computer management and system security on the VistA M Servers.
- Enterprise Program Management Office (EPMO)—VistA legacy development teams.
- Information Security Officers (ISOs)—Personnel at VA sites responsible for system security.
- Product Support (PS).

Disclaimers

Software Disclaimer

This software was developed at the Department of Veterans Affairs (VA) by employees of the Federal Government in the course of their official duties. Pursuant to title 17 Section 105 of the United States Code this software is *not* subject to copyright protection and is in the public domain. VA assumes no responsibility whatsoever for its use by other parties, and makes no guarantees, expressed or implied, about its quality, reliability, or any other characteristic. We would appreciate acknowledgement if the software is used. This software can be redistributed freely provided that any derivative works bear some notice that they are derived from it.



CAUTION: Kernel routines should *never* be modified at the site. If there is an immediate national requirement, the changes should be made by emergency Kernel patch. Kernel software is subject to FDA regulations requiring Blood Bank Review, among other limitations. Line 3 of all Kernel routines states:

Per VHA Directive 2004-038, this routine should not be modified.



CAUTION: To protect the security of VistA systems, distribution of this software for use on any other computer system by VistA sites is prohibited. All requests for copies of Kernel for *non-VistA* use should be referred to the VistA site's local Office of Information Field Office (OIFO).

Documentation Disclaimers



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

Documentation Conventions

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:

Table 1: Documentation Symbol Descriptions

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

- 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 are formatted as follows:
 - <Application Name/Abbreviation/Namespace>PATIENT,<N>
 - <Application Name/Abbreviation/Namespace>USER,<N>

Where:

- <Application Name/Abbreviation/Namespace> is defined in the Approved Application Abbreviations document.
- <N> represents the first name as a number spelled out and incremented with each new entry.

For example, in Kernel (XU or KRN) test patient and user names would be documented as follows:

KRNPATIENT,ONE; KRNPATIENT,TWO; KRNPATIENT,THREE; ...
KRNPATIENT,14; etc.

KRNUSE,ONE; KRNUSE,TWO; KRNUSE,THREE; ... KRNUSE,14;
etc.

- “Snapshots” of computer commands and online displays (i.e., screen captures/dialogues) and computer source code, if any, are shown in a *non*-proportional font and may be enclosed within a box.
 - User’s responses to online prompts will be **bold** typeface and highlighted in yellow (e.g., **<Enter>**).
 - Emphasis within a dialogue box will be **bold** typeface and highlighted in blue (e.g., **STANDARD LISTENER: RUNNING**).
 - Some software code reserved/key words will be **bold** typeface with alternate color font.
 - 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 are displayed in italics or as “callout” boxes.



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

- This manual refers 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 MUMPS 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 security key).



NOTE: Other software code (e.g., Delphi/Pascal and Java) variable names and file/folder names can be written in lower or mixed case.

Documentation Navigation

This document uses Microsoft® Word’s built-in navigation for internal hyperlinks. To add **Back** and **Forward** navigation buttons to your toolbar, do the following:

1. Right-click anywhere on the customizable Toolbar in Word (*not* the Ribbon section).
2. Select **Customize Quick Access Toolbar** from the secondary menu.
3. Select the drop-down arrow in the “Choose commands from:” box.
4. Select **All Commands** from the displayed list.

5. Scroll through the command list in the left column until you see the **Back** command (circle with arrow pointing left).
6. Select/Highlight the **Back** command and select **Add** to add it to your customized toolbar.
7. Scroll through the command list in the left column until you see the **Forward** command (circle with arrow pointing right).
8. Select/Highlight the **Forward** command and select **Add** to add it to the customized toolbar.
9. Select **OK**.

You can now use these **Back** and **Forward** command buttons in your Toolbar to navigate back and forth in your Word document when clicking on hyperlinks within the document.



NOTE: This is a one-time setup and is automatically available in any other Word document once you install it on the Toolbar.

How to Obtain Technical Information Online

Exported VistA M Server-based software 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 section.

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 VistA M Server-based 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** [DILIST] option on the **Data Dictionary Utilities** [DI DDU] menu in VA FileMan to print formatted data dictionaries.



REF: For details about obtaining data dictionaries and about the formats available, see the “List File Attributes” chapter in the “File Management” section of the *VA FileMan Advanced User Manual*.

Assumptions

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

Reference Materials

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

- *Kernel Release Notes*
- *Kernel Installation Guide*
- *Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide*
- *Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide*
- *Kernel 8.0 & Kernel Toolkit 7.3 Technical Manual* (this manual)
- *Kernel Security Tools Manual*
- Kernel VA Intranet Website.

This site contains other information and provides 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, which is freely distributed by Adobe® Systems Incorporated at the following Website: <http://www.adobe.com/>

VistA documentation can be downloaded from the VA Software Document Library (VDL) Website: <http://www.va.gov/vdl/>

VistA documentation and software can also be downloaded from the Product Support (PS) Anonymous Directories.

1 Introduction

1.1 Kernel

Kernel is the intermediary layer between the host operating system and other Veterans Health Information Systems and Technology Architecture (VistA) software applications, so that VistA software can coexist in a standard operating-system-independent computing environment. Kernel provides a standard and consistent user and developer interface between software applications and the underlying M implementation.

It provides the underlying computing environment for all VistA users. VistA system administrators can track users and resolve problems using Kernel options. VistA application developers rely on tools provided by Kernel to perform routine programming tasks.

By offering a computing environment that hides the *non*-standard features of M, Kernel frees VistA users, system administrators, and developers from dependence on any one vendor's M implementation. This allows VistA to shift easily to new hardware and software platforms as information technology (IT) advances.

1.2 Kernel Toolkit

Kernel Toolkit is a robust set of tools developed to aid the VistA development community in analysis, writing, and testing, code. It is a set of generic tools that are used by development teams, software quality assurance (SQA), and system administrators to support distinct tasks.

Kernel Toolkit provides utilities for the management and definition of development projects. Many of these utilities have been used by the San Francisco Information Systems Center (ISC) for internal management and have proven valuable. Kernel Toolkit provides many programming and system management tools and interacts directly with the underlying M (aka MUMPS [Massachusetts General Hospital Utility Multi-Programming System]) environment in many different ways.

It includes the following tools:

- [Multi-Term Look-Up \(MTLU\)](#)
- [Duplicate Resolution Utilities](#)

1.2.1 Multi-Term Look-Up (MTLU)

Many medical information systems depend on the standardized encoding of diagnoses and procedures for reports, searches, and statistics. The following files are among some of the more critical files:

- ICD DIAGNOSIS (#80)
- ICD OPERATIONS/PROCEDURE (#80.1)
- CPT (#81)

The Multi-Term Look-Up utility increases the accessibility of the information in these files by associating user-supplied words or phrases with terms found in a more descriptive, FREE TEXT field.

Multi-Term Look-Up enables:

- Local setup of virtually any reference file.
- Developers to modify the behavior of the "special" lookup by defining shortcuts, keywords, or synonyms.

Multi-Term Look-Up integrates with any package that uses a reference file, which has been entered in a site's LOCAL LOOKUP (#8984.4) file.

1.2.2 Duplicate Resolution Utilities

The Duplicate Resolution Utilities give developers a “shell” that allows their users to check their data files for duplicate records and merge the records if any are found. These utilities provide the functionality of combining duplicate records based on conditions established in customized applications. The following two files are used to do this:

- DUPLICATE RECORD (#15)
- DUPLICATE RESOLUTION (#15.1)

The **Merge Shell** was developed by the Indian Health Service (IHS) to support their Multi-Facility Integration project.

1.3 Purpose

The purpose of this manual is to provide information about the structure of the set of software utilities known as Kernel and Kernel Toolkit. Two other major affiliated software applications, VA FileMan and MailMan, are excluded, since they are documented elsewhere. This material is presented for reference by VistA system administrators, application developers, and other Kernel/Kernel Toolkit users.

2 Implementation and Maintenance

Information in this section is meant to help system administrators implement and maintain Kernel and Kernel Toolkit.



REF: For recommendations regarding global mapping, journaling, translation, and replication in Kernel and Kernel Toolkit, see the “[Mapping Routines](#)” and “[Global Protection, Translation, and Journaling](#)” sections.

For recommendations regarding archiving and purging in Kernel and Kernel Toolkit, see the “[Archiving and Purging](#)” section.

2.1 Installation

Follow the appropriate patch installation instructions for Kernel and Kernel Toolkit Patches on FORUM.

Installing Kernel both on a system having a previous version of Kernel present and on a system without Kernel (a “virgin” install) is explained in the *Kernel Installation Guide*. It also contains many requirements and recommendations regarding how Kernel should be configured. Be sure to read it before attempting to install Kernel.



REF: For more detailed information on installing Kernel and Kernel Toolkit, see the *Kernel Installation Guide* located on the VA Software document Library (VDL) at: <http://www.va.gov/vdl/application.asp?appid=10>

2.2 Namespace

The Kernel and Kernel Toolkit routine namespaces include:

- **XDR***
- **XG***
- **XI***
- **XL***
- **XL***
- **XP***
- **XP***
- **XQ***
- **XT***
- **XU***
- **ZIS***
- **ZOS***
- **ZTM***
- **ZU***




2.3 Kernel Site Parameters

This section lists the Kernel site parameters that can be set to customize the operation of the various components of Kernel.

2.4 Kernel 8.0 Site Parameters File Changes

Kernel 8.0 exports three central site parameter files:

Table 2: Parameters—Kernel Site Parameter Files

File	Description
KERNEL SYSTEM PARAMETERS (#8989.3)	Kernel's main site parameters. These parameters were formerly stored in the MAILMAN SITE PARAMETERS (#4.3) file but are now stored in this file.  REF: For information on this parameter file, see the “Kernel System Parameters (#8989.3) File” section.
KERNEL PARAMETERS (#8989.2)	This file holds parameters that Kernel uses, which the site is allowed to change. It is <i>not</i> restricted solely to site parameters. The file makes use of a DEFAULT value field and a REPLACEMENT value field for each parameter.  REF: For information on this parameter file, see the “Kernel Parameters (#8989.2) File” section.
PARAMETER DEFINITION (#8989.51) file	This file holds additional Kernel parameter definitions.  REF: For information on this parameter file, see the “Kernel Parameter Definitions (#8989.51) File” section.

2.5 Kernel System Parameters (#8989.3) File

The Kernel system parameters are stored in the KERNEL SYSTEM PARAMETERS (#8989.3) file.



Figure 1: Parameters—Enter/Edit Kernel Site Parameters Menu Option


Operations Management ...	[XUSITEMGR]
Kernel Management Menu...	[XUKERNEL]
Enter/Edit Kernel Site Parameters	[XUSITEPARM]



Table 3: Parameters—KERNEL SYSTEM PARAMETERS (#8989.3) File (Listed Alphabetically by Field Name)

Field	Description
AGENCY CODE (#9)	This field defines what agency uses this computer. It sets a flag that can be accessed by applications programs that need to know this information.
ASK DEVICE TYPE AT SIGN-ON (#205)	<p>This is the default for whether a user/terminal should be asked for their Terminal Type at signon. This is overridden by a similar field in the DEVICE (#3.5) and NEW PERSON (#200) files:</p> <ul style="list-style-type: none"> • If set to YES, then an ANSI DA is sent to the terminal to collect the terminal's DEVICE ATTRIBUTES message. If it is a known one, then the Terminal Type is set to this; otherwise, the user is prompted. • If set to NO, then the one from the LAST SIGN-ON field or device subtype is used.
AUTO-GENERATE ACCESS CODES (#11)	<p>If this field is set to YES, the person assigning access codes <i>must</i> choose one of the automatically generated codes that are presented.</p> <p>If this field is set to NO, other codes are only accepted.</p>
BYPASS DEVICE LOCK-OUT (#211)	<p>Setting this field to YES causes all device lockout checking to be bypassed. This means that during signon the checks against the DEVICE (#3.5) file for the following fields will be skipped:</p> <ul style="list-style-type: none"> • OUT-OF-SERVICE DATE (#6) • SECURITY (#15) • PROHIBITED TIMES FOR SIGN-ON (#2009). <p>It can be overridden by the PERFORM DEVICE CHECKING (#51.91) field in the DEVICE (#3.5) file.</p>
DEFAULT # OF ATTEMPTS (#202)	This is the default number of attempts that a user is allowed when trying to sign on before the device is locked. This field is overridden by the # OF ATTEMPTS (#51.2) field in the DEVICE (#3.5) file. ALL checking for device lockout can be bypassed by setting the BYPASS DEVICE LOCK-OUT (#211) field.
DEFAULT AUTO-MENU (#206)	This is the default for whether auto-menu is turned ON or OFF . It is overridden by the AUTO MENU (#51.6) field in the DEVICE (#3.5) file.
DEFAULT INSTITUTION (#217)	This field is used to define a default institution that will be assigned to the user's institution [DUZ(2)] for any user that does <i>not</i> have one.

Field	Description
DEFAULT LANGUAGE (#207)	This is the default language used to set the DUZ("LANG") flag for each user. VA FileMan uses this setting to enable the display of language-specific dates and times, numeric formats, and dialogues.
DEFAULT LOCK-OUT TIME (#203)	This is the default time in seconds that a locked device <i>must</i> be idle before another signon attempt is allowed. This time is overridden by the LOCK-OUT TIME (#51.3) field in the DEVICE (#3.5) file. ALL checking for device lockout is ignored if the BYPASS DEVICE LOCK-OUT (#211) field is set to YES .
DEFAULT MULTIPLE SIGN-ON (#204)	This is the default value for whether users may sign on at more than one terminal at a time. It is overridden by the following fields: <ul style="list-style-type: none"> • DEFAULT MULTIPLE SIGN-ON (#204) field in the DEVICE (#3.5) • MULTIPLE SIGN-ON (#200.04) field in the NEW PERSON (#200) file.
DEFAULT TIMED-READ (SECONDS) (#210)	This is the default time-out for all READs and is overridden by the TIMED READ (# OF SECONDS) (#51.1) field in the DEVICE (#3.5) file.
DEFAULT TYPE-AHEAD (#209)	This is the default as to whether or <i>not</i> type-ahead is allowed. It is overridden by the TYPE-AHEAD (#51.9) field in the DEVICE (#3.5) file.
DEVICE TO AUDIT (#212.1) Multiple	This Multiple (subfile) holds a list of devices that are to be audited when device auditing is activated. The .01 field is referenced when the FAILED ACCESS ATTEMPT AUDIT (#212.5) field is set to D or DR . It is used to specify the logical names of the devices on which to audit failed attempts.
FAILED ACCESS ATTEMPT AUDIT (#212.5)	This field indicates whether an audit log is to be generated for failed access attempts. Audits can be done for all devices or specified devices only. Recording of what is entered is optional. Entries include: <ul style="list-style-type: none"> • A—All devices/no text recorded. • D—Specified devices/no text recorded. • AR—All devices/text recorded. • DR—Specified devices/text recorded. • N—No audit.
INITIATE AUDIT (#19.4)	This field indicates the date when an audit begins. The OPTION AUDIT (#19) field defines the nature of the audit that is performed. Auditing is only done if there is both INITIATE AUDIT (#19.4) and TERMINATE AUDIT (#19.5) field data.

Field	Description
INTERACTIVE USER'S PRIORITY (#216)	This field changes the priority of interactive users on the system at signon time. There is a danger that using this field will cause the users to have poor response time from the computer. Valid values range from 1 to 10 .
IP SECURITY ON (#405.1)	<p>This field turns on or off the IP security “Three strikes and you are out” code. This is used to lock an IP address if there are too many failed/invalid signon attempts. It is similar to the device lockout.</p> <ul style="list-style-type: none"> • Use the Release IP lock [XU IP RELEASE] option to release the lock on an IP address. • Use the Edit Site IP lockout [XU SITE LOCKOUT] option to edit the Kernel System Parameters for IP lockout and/or User lockout and Terminal server list entry.
LIFETIME OF VERIFY CODE (#214)	This is the number of days that a Verify code remains valid. After this time the user <i>must</i> choose a new Verify code.
LOG RESOURCE USAGE? (#300)	This YES/NO field is used to indicate whether resource usage data, such as CPU seconds, DIO, BIO, etc., is collected in ^XUCP . If this field is set to YES , every time a user goes in and out of an option each time is recorded.
LOG SYSTEM RT? (#41, 6)	A subfield in the VOLUME SET (#41) Multiple. Setting this subfield to YES enables system response time logging, which only takes place if the necessary code exists in the application software.
MAX SIGNON ALLOWED (#41, 2)	A subfield in the VOLUME SET (#41) Multiple. This subfield defines the maximum number of jobs that XUS or RPC Broker allows to sign on to this VOLUME SET or CPU. It is the number of processes (interactive, background, and system) that can be active on the machine at any one time. When reached, Kernel prohibits logons.
MAX SPOOL DOCUMENT LIFE-SPAN (#31.3)	<p>This field controls the number of days that a spooled document is allowed to remain in the spooler before deletion by the Purge old spool documents [XU-SPL-PURGE] option, which needs to be set up to run in the background. Valid values range from 1 to 365; zero decimals.</p> <p> REF: For more information on spooler site parameters, see the “Spooler Site Parameters” section.</p>
MAX SPOOL DOCUMENTS PER USER (#31.2)	<p>This field limits the number of spooled documents that any user can have on the system. <i>Recommended</i> values from 10 to 100.</p> <p> REF: For more information on spooler site parameters, see the “Spooler Site Parameters” section.</p>

Field	Description
MAX SPOOL LINES PER USER (#31.1)	<p>This field holds the maximum number of lines of spooled output a user is allowed. If the user has more than this number, then they are <i>not</i> allowed to spool any more until some of their spooled documents are deleted. This only controls the granting of new spool documents and does <i>not</i> terminate the number of lines that are transferred into the spool data file. Valid values range from 1 to 99999999; <i>recommended</i> value 9999.</p> <p> REF: For more information on spooler site parameters, see the "Spooler Site Parameters" section.</p>
NAMESPACE TO AUDIT (#19.2) Multiple	This Multiple (subfile) holds a list of software namespaces to audit. All options within a namespace are audited if the OPTION AUDIT (#19) Field is set to s (specific options).
NEW PERSON IDENTIFIERS (#21)	This field holds M code to set the DR variable to the string of fields (<i>not</i> a template) to be used as identifiers when adding entries to the NEW PERSON (#200) file.
OPTION AUDIT (#19)	<p>This field indicates what should be audited between the INITIATE AUDIT (#19.4) date and TERMINATE AUDIT (#19.5) date fields.</p> <p>Valid values include:</p> <ul style="list-style-type: none"> • n—No audit. • a—All options audited. • s—Specific options audited. • u—Users audited. <p>The OPTION TO AUDIT (#19.1) Multiple along with the NAMESPACE TO AUDIT (#19.2) Multiple hold the lists of specific options that would be audited (choosing s). The USER TO AUDIT (#19.3) Multiple holds the list of users that would be audited (choosing u).</p>
OPTION TO AUDIT (#19.1) Multiple	This Multiple (subfile) holds a list of options to audit if the OPTION AUDIT (#19) field is set to s (specific options).
ORGANIZATION (#200.2)	<p>Use this Identity and Access Management (IAM) field to identify the organization of this VistA instance. For internally authenticated users, this field matches the SUBJECT ORGANIZATION (#205.2) field of the user identified in the NEW PERSON (#200) file. For the VA, this field should always contain the following value:</p> <p>Department Of Veterans Affairs</p>

Field	Description
ORGANIZATION ID (#200.3)	Use this Identity and Access Management (IAM) field to uniquely identify the organization of this VistA instance. For internally authenticated users, this field matches the SUBJECT ORGANIZATION ID (#205.3) field of the user identified in the NEW PERSON (#200) file. For the VA, this field should always contain the following value: urn:oid:2.16.840.1.113883.4.349
ROUTINE MONITORING (#9.8)	This field supports routine auditing. It controls how the routine monitoring program behaves; whether to look at all routines or just selected name spaces.  REF: For more information, see the <i>Kernel Security Tools Manual</i> .
ROUTINE N-SPACE TO MONITOR (#9.81) Multiple	This Multiple (subfile) supports routine auditing. If the routine monitoring program is to look at namespaces, then this Multiple lists the namespaces that it looks at. For example, an entry of XU* causes it to look at all routines that start with XU .  REF: For more information, see the <i>Kernel Security Tools Manual</i> .
SECURITY TOKEN SERVICE (#200.1)	When using brokered authentication with a security token issued by a Security Token Service (STS), this field contains the identification of the issuer of the token. The STS is trusted by both the client and the service to provide interoperable security tokens. Security Assertion Markup Language (SAML) tokens are standards-based XML tokens that are used to exchange security information, including: <ul style="list-style-type: none"> • Attribute statements • Authentication decision statements • Authorization decision statements They can be used as part of a Single Sign-On (SSO) solution allowing a client to talk to services running on disparate technologies. For the VA, this field should always contain the following value: eaauth.va.gov
TERMINATE AUDIT (#19.5)	This field indicates when the audit ends. The start date is set in the INITIATE AUDIT (#19.4) field.
USER TO AUDIT (#19.3) Multiple	This Multiple (subfile) holds a list of users to audit their option use, if the OPTION AUDIT (#19) field is set to u (users audited).

Field	Description
VOLUME SET (#41) Multiple	This is the name of each CPU or Volume Set in the domain. Within each Volume Set, you can set: <ul style="list-style-type: none"> MAX SIGN-ON ALLOWED (#41, 2) LOG SYSTEM RT? (#41, 6).

2.6 Kernel Parameters (#8989.2) File

Kernel does *not* export an option to edit these parameters. The KERNEL PARAMETERS (#8989.2) file holds parameters that Kernel uses and the site is allowed to change. It is *not* restricted solely to site parameters. The file makes use of a DEFAULT (#3) value field and a REPLACEMENT (#4) value field for each parameter. Rather than having a specific field for each parameter, one Multiple holds all parameters.

Kernel currently stores the following active parameters in this file:

Table 4: Parameters—KERNEL PARAMETERS (#8989.2) File (Listed Alphabetically by Name)


Parameters	Description
XUEDIT CHARACTERISTICS	You can enter the name of a replacement for the standard Edit User Characteristics template in the REPLACEMENT (#4) field. Kernel will then use the replacement for the Edit User Characteristics [XUSEREDITSELF] option.
XUEXISTING USER	You can enter the name of a template to use in the Edit an Existing User [XUSEREDIT] option in the REPLACEMENT (#4) field. Kernel uses the replacement template for the Edit an Existing User [XUSEREDIT] option.
XUNEW USER	You can enter the name of a template to use in the Add a New User to the System [XUSERNEW] option in the REPLACEMENT (#4) field. Kernel will then use the replacement template for the Add a New User to the System [XUSERNEW] option.
XUREACT USER	You can enter the name of a template to use in the Reactivate a User [XUSERREACT] option in the REPLACEMENT (#4) field. Kernel will then use the replacement template for the Reactivate a User [XUSERREACT] option.
XUSER COMPUTER ACCOUNT	You can enter the name of a help frame in the REPLACEMENT (#4) field. Kernel will then use the replacement help frame instead of the standard one when printing the computer access letter from the Add a New User to the System [XUSERNEW] option.





2.7 Kernel Parameter Definitions (#8989.51) File


Additional Kernel parameters are stored in the PARAMETER DEFINITION (#8989.51) file.

Table 5: Parameters—PARAMETER DEFINITION (#8989.51) File (Listed Alphabetically by Name)

Parameters	Description
XPAR ALL ENTITIES	All Entities: This is a “dummy” parameter definition that is used by XPARLIST to get a list of all entities. The ALLOWABLE ENTITIES (#51, 30) Multiple field for this parameter should list all entities defined in PARAMETERS.
XPAR MY NEW PARAM	Test MY new parameters.
XPAR TEST DATE/TIME	Test Date/Time: Test parameter entry for a single valued date.
XPAR TEST FREE TEXT	Test Free Text: Test parameter entry for single valued free text.
XPAR TEST M CODE	Test XPAR entry with a value of M code.
XPAR TEST ME	TEST ME.
XPAR TEST MULT FREE TEXT	Test entry for showing how to add to a Free Text with multiple instances. Enter a string of 5-15 characters.
XPAR TEST MULTIPLE	Test Everything: This is a test of a parameter that allows multiple instances and multiple entities. <ul style="list-style-type: none">• PRECEDENCE: 1 ENTITY FILE: SYSTEM• PRECEDENCE: 2 ENTITY FILE: DIVISION• PRECEDENCE: 3 ENTITY FILE: SERVICE• PRECEDENCE: 4 ENTITY FILE: LOCATION• PRECEDENCE: 5 ENTITY FILE: PACKAGE• PRECEDENCE: 6 ENTITY FILE: CLASS• PRECEDENCE: 7 ENTITY FILE: TEAM• PRECEDENCE: 8 ENTITY FILE: USER
XPAR TEST MULTIPTR	Test Multiple Pointer.
XPAR TEST NUMERIC	Test Numeric: Test parameter entry for numeric data.
XPAR TEST POINTER	Test Pointer: Test parameter entry for pointer types.
XPAR TEST PWP	Test Multiple WP with Pointer Instance

Parameters	Description
XPAR TEST SET OF CODES	Test Set of Codes: Test parameter entry of a set of codes.
XPAR TEST WP	Test WP: Test parameter entry for word-processing (WP) values.
XPAR TEST YES/NO	Test Yes/No.
XPD PATCH HFS SERVER	Patch module HFS server: This parameter holds the name of the server to send email to when a KIDS Host File Server (HFS) file is made.
XQ MENU MANAGER PROMPT	<p>This parameter allows sites to change the default < TEST ACCOUNT> prompt to another value, such as <LEGACY SYSTEM> in menu prompts of non-production VistA systems. The text defined by this parameter is inserted in the MenuMan (Menu Manager) prompts. If no text is defined, the hard-coded default is “ < TEST ACCOUNT>”. Alternatives could be:</p> <ul style="list-style-type: none"> • “ <LEGACY SYSTEM>” • “ <CONTINGENCY>” • “ <READ ONLY>” • Or, any other value from 3 to 20 characters, depending on the purpose of the non-production VistA system. <p> NOTE: This parameter was released with Kernel Patch XU*8.0*614.</p>
XQAL BACKUP REVIEWER	<p>Backup Reviewer for Unprocessed Alerts: This parameter contains information about the Backup Reviewer for unprocessed alerts. This person is sent the alerts for the specified entity that remain unprocessed by the original recipients.</p> <ul style="list-style-type: none"> • PRECEDENCE: 50 ENTITY FILE: SYSTEM • PRECEDENCE: 40 ENTITY FILE: DIVISION • PRECEDENCE: 35 ENTITY FILE: SERVICE • PRECEDENCE: 1 ENTITY FILE: USER

Parameters	Description
XU SIG BLOCK DISABLE	<p>Determines whether restrictions are active:</p> <ul style="list-style-type: none"> • If the parameter is set to ON (1), then restrictions are active and Electronic Signature Block edits are disabled for users without the XUSIG security key. • If the parameter is set to OFF (0), then restrictions are <i>not</i> active and Electronic Signature Block edits are enabled for all users. <p> NOTE: This parameter was released with Kernel Patch XU*8.0*679.</p>
XU522	<p>Determines whether old-style (less secure) Compensation and Pension Record Interchange (CAPRI) logins are permitted and logged. Enter any of the following values:</p> <ul style="list-style-type: none"> • Y (YES)—To disable old-style CAPRI logins (default). • E (ERROR)—To disable old-style CAPRI logins and trap attempts. • N (NO)—To leave old-style CAPRI logins enabled. • L (DEBUG)—To leave old-style CAPRI logins enabled but trap attempts. <p> NOTE: This parameter was released with Kernel Patch XU*8.0*522.</p>
XU594	<p>This parameter skips the code that Kernel Patch XU*8.0*543 uses. If XU*8.0*543 broke the iMedConsent application, this parameter should be set to YES. The default is NO.</p> <p> NOTE: This parameter was released with Kernel Patch XU*8.0*594.</p>
XU645	<p>This parameter determines if a terminated user's information should be deleted:</p> <ul style="list-style-type: none"> • A NO value means you do <i>not</i> want to purge the terminated user information. This was requested by the Office of Inspector General (OIG) when they want all user information preserved. • A YES value means to purge the information, which is normal operating procedure. <p> NOTE: This parameter was released with Kernel Patch XU*8.0*645.</p>

Parameters	Description
XUEPCS REPORT DEVICE	<p>ePCS Device Definition for Reports: Enter a device from the DEVICE (#3.5) file for the ePCS report output.</p> <p> NOTE: This parameter was released with Kernel Patch XU*8.0*580.</p>
XUS CCOW VAULT PARAM	CCOW Vault Parameter: This parameter holds the application passcode for the CCOW vault.
XUS-XUP SET ERROR TRAP	<p>Set Error Trap in XUP: This parameter controls if XUP will set up an ERROR trap for the user:</p> <ul style="list-style-type: none"> • PRECEDENCE: 1 ENTITY FILE: USER • PRECEDENCE: 2 ENTITY FILE: SYSTEM
XUS-XUP VPE	<p>Drop into VPE: This parameter controls if a user when exiting XUP is dropped into VPE or right to the ">" prompt:</p> <ul style="list-style-type: none"> • PRECEDENCE: 1 ENTITY FILE: USER • PRECEDENCE: 2 ENTITY FILE: SYSTEM
XUSC1 DEBUG	Set Debug mode for XUSC1: This parameter controls if the XUSC1 client code records debug information into the ^TMP global.
XUSNPI QUALIFIED IDENTIFIER	NPI QUALIFIED IDENTIFIER: This is a mapping of NPI ID name to the files that hold the data.

2.7.1 XPAREdit Routine

Use the **XPAREdit** routine to update the parameters in the **PARAMETER DEFINITION (#8989.51)** file.

To edit the DEA ePCS Utility parameter, perform the following procedure:

1. From the programmer prompt, enter the following code:
`D ^XPAREdit`
2. At the “Select **PARAMETER DEFINITION NAME**:” prompt, enter the parameter you want to edit.

Figure 2: Parameters—XPAREdit Routine: Editing Parameters in the **PARAMETER DEFINITION (#8989.51) File**

```
>D ^XPAREdit

      --- Edit Parameter Values ---

Select PARAMETER DEFINITION NAME:
```

2.8 Audit-Related Site Parameters

Figure 3: Parameters—Audit-Related Menu Options

System Security...	[XUSPY]
Audit Features ...	[XUAUDIT MENU]
Maintain System Audit Options...	[XUAUDIT MAINT]
Establish System Audit Parameters	[XUAUDIT]

You can edit audit-related site parameters located in the **KERNEL SYSTEM PARAMETERS (#8989.3)** file using the **Establish System Audit Parameters [XUAUDIT]** option (the fields are also reachable from the **Enter/Edit Kernel Site Parameters [XUSITEPARM]** option).



REF: For more information on auditing, see the *Kernel Security Tools Manual*.

Table 6: Parameters—Audit-Related Parameters from the KERNEL SYSTEM PARAMETERS (#8989.3) File (Listed Alphabetically by Field Name)

Parameters (Fields)	Description
DEVICE TO AUDIT (#212.1) Multiple	This Multiple (subfile) holds a list of devices that are to be audited when device auditing is activated. The .01 field is referenced when the FAILED ACCESS ATTEMPT AUDIT (#212.5) field is set to D or DR . It is used to specify the logical names of the devices on which to audit failed attempts.
FAILED ACCESS ATTEMPT AUDIT (#212.5)	This field indicates whether an audit log is to be generated for failed access attempts. Audits can be done for all devices or specified devices only. Recording of what is entered is optional: Entries include: <ul style="list-style-type: none"> • A—All devices/no text recorded. • D—Specified devices/no text recorded. • AR—All devices/text recorded. • DR—Specified devices/text recorded. • N—No audit.
INITIATE AUDIT (#19.4)	This field indicates the date when an audit begins. The OPTION AUDIT (#19) field defines the nature of the audit that is performed. Auditing is only done if there is both INITIATE AUDIT (#19.4) and TERMINATE AUDIT (#19.5) field data.
NAMESPACE TO AUDIT (#19.2) Multiple	This Multiple (subfile) holds a list of software namespaces to audit. All options within a namespace are audited if the OPTION AUDIT (#19) Field is set to s (specific options).
OPTION AUDIT (#19)	This field indicates what should be audited between the INITIATE AUDIT (#19.4) date and TERMINATE AUDIT (#19.5) date fields. Valid values include: <ul style="list-style-type: none"> • n—No audit. • a—All options audited. • s—Specific options audited. • u—Users audited. The OPTION TO AUDIT (#19.1) Multiple along with the NAMESPACE TO AUDIT (#19.2) Multiple hold the lists of specific options that would be audited (choosing s). The USER TO AUDIT (#19.3) Multiple holds the list of users that would be audited (choosing u).
OPTION TO AUDIT (#19.1) Multiple))	This Multiple (subfile) holds a list of options to audit if the OPTION AUDIT (#19) field is set to s (specific options).

Parameters (Fields)	Description
TERMINATE AUDIT (#19.5)	This field indicates when audit ends. The start date is set in the INITIATE AUDIT (#19.4) field.
USER TO AUDIT (Multiple; #19.3)	This Multiple (subfile) holds a list of users to audit their option use, if the OPTION AUDIT (#19) field is set to u (users audited).

2.9 Spooler Site Parameters

Figure 4: Spooler Site Parameters Edit Menu Option

Spool Management...	[XU-SPL-MGR]
Spooler Site Parameters Edit	[XU-SPL-SITE]

You can edit spooler-related site parameters located in the KERNEL SYSTEM PARAMETERS (#8989.3) file with the **Spooler Site Parameters Edit** [XU-SPL-SITE] option (the fields are also reachable from the **Enter/Edit Kernel Site Parameters** [XUSITEPARM] option).



REF: For more information on the Spooler, see the “Spooling” chapter in the *Kernel Security Tools Manual*.

Table 7: Parameters—Spooler-Related Parameters from the KERNEL SYSTEM PARAMETERS (#8989.3) File (Listed Alphabetically by Field Name)

Fields	Description
MAX SPOOL LINES PER USER (#31.1)	This field holds the maximum number of lines of spooled output a user is allowed. If the user has more than this number, then they are <i>not</i> allowed to spool any more until some of their spooled documents are deleted. This only controls the granting of new spool documents and does <i>not</i> terminate the number of lines that are transferred into the spool data file. Valid values range from 1 to 9999999 ; <i>recommended</i> value 9999 .
MAX SPOOL DOCUMENT LIFE-SPAN (#31.3)	This field controls the number of days that a spooled document is allowed to remain in the spooler before deletion by the Purge old spool documents [XU-SPL-PURGE] option, which needs to be set up to run in the background. Valid values range from 1 to 365 ; zero decimals.
MAX SPOOL DOCUMENTS PER USER (#31.2)	This field limits the number of spooled documents that any user can have on the system. <i>Recommended</i> value from 10 to 100 .

2.10 TaskMan Site Parameters

There are three separate groups of site parameters for TaskMan. They are stored in the following files:

- TASKMAN SITE PARAMETERS (#14.7)
- UCI ASSOCIATION (#14.6)
- VOLUME SET (#14.5)



REF: For information about configuring TaskMan's site parameters, see the "TaskMan System Management: Configuration" section in the *Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide*.

2.11 Implementing Multi-Term Look-Up

Implementing Multi-Term Look-Up requires:

- Central Processing Unit (CPU) capacity: **3%**.
- Disk Space: **20,000** bytes. However, this depends on the number of entries in the following files:
 - LOCAL KEYWORD (#8984.1)
 - LOCAL SHORTCUT (#8984.2)
 - LOCAL SYNONYM (#8984.3)

The Multi-Term Look-Up utility has one parameter, which can be adjusted to meet the needs of an individual site. Whenever a new file is entered through the **Add Entries To Look-Up File** [XTLKMODPARS] option, an additional MUMPS cross-reference is necessary on a FREE TEXT field of the new file. This reference converts the FREE TEXT field into keywords to be used in the search. In order to use the full functionality of the package, the cross-reference entry on the FREE TEXT field should match the INDEX (#.03) field in the LOCAL LOOKUP (#8984.4) file. [Figure 5](#) is an example for the ICD DIAGNOSIS (#80) file **AIHS** is entered on the FREE TEXT field as a cross-reference. **AIHS**, therefore, *must* match the entry made at the Local Look-up INDEX prompt in the **Add Entries To Look-Up File** [XTLKMODPARS] option.

Figure 5: Multi-Term Look-Up—Sample System Prompts and User Entries: Entering a Cross-Reference on a Field in a File

```

Select OPTION: UTILITY FUNCTIONS
Select UTILITY OPTION: CROSS-REFERENCE A FIELD

MODIFY WHAT FILE: ICD DIAGNOSIS// ICD DIAGNOSIS <Enter> (12535 entries)
Select FIELD: DESCRIPTION

CURRENT CROSS-REFERENCE IS MUMPS 'D' INDEX OF FILE
CHOOSE E (EDIT)/D (DELETE)/C (CREATE): C
WANT TO CREATE A NEW CROSS-REFERENCE FOR THIS FIELD? NO// Y <Enter> (YES)
CROSS-REFERENCE NUMBER: 2// <Enter>
Select TYPE OF INDEXING: REGULAR// MUMPS
WANT CROSS-REFERENCE TO BE USED FOR LOOKUP AS WELL AS FOR SORTING? YES// N <Enter>
(NO)
SET STATEMENT: S %="^ICD9("AIHS",I,DA)" D S^XTLKWIC
KILL STATEMENT: S %="^ICD9("AIHS",I,DA)" D K^XTLKWIC
INDEX: AC// AIHS
...
DO YOU WANT TO CROSS-REFERENCE EXISTING DATA NOW? YES// Y <Enter> (YES)
...EXCUSE ME, LET ME THINK ABOUT THAT A MOMENT.....
.....
>D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT100
Select OPTION NAME: APPLI <Enter> CATION UTILITIES XTMENU Application Utilities

Multi-Term Lookup Main Menu ...

Select Application Utilities Option: MULTI <Enter>-Term Lookup Main Menu

Multi-Term Lookup (MTLU)
Print Utility
Utilities for MTLU ...

Select Multi-Term Lookup Main Menu Option: UTIL <Enter> ities for MTLU

KL      Delete Entries From Look-up
ST      Add Entries To Look-Up File
        Add/Modify Utility ...

Select Utilities for MTLU Option: ST <Enter> Add Entries To Look-Up File
Select LOCAL LOOKUP NAME: ICD DIAGNOSIS
ARE YOU ADDING 'ICD DIAGNOSIS' AS A NEW LOCAL LOOKUP (THE 3RD)? Y <Enter> (YES)
LOCAL LOOKUP NAME: ICD DIAGNOSIS// <Enter>
LOCAL LOOKUP DISPLAY PROTOCOL: <Enter>
INDEX: AIHS
...Ok, will now setup KEYWORD and SHORTCUT file DD's
to allow terms for 'ICD DIAGNOSIS' entries...
PREFIX: M// ?
        Answer must be a unique prefix, 1-10 characters in length

Enter the VARIABLE POINTER prefix.

PREFIX: M// D
<REMINDER> Using 'Edit File', set the lookup routine, XTLKDICL, in 'ICD DIAGNOSIS
DD
Select LOCAL LOOKUP NAME: <Enter>

```



NOTE: Using the **VA FileMan Edit File** [DIEDIT] option, enter **XTLKDICL** at the “Look-Up Program” prompt. Data should be cross-referenced when installing the cross-reference. If *not*, data should be re-indexed after hours, since this can be CPU intensive.

2.12 Implementing Duplicate Resolution Utilities

Implementing Duplicate Resolution Utilities requires the following resources and familiarity with the following processes:

- [Data Storage](#)
- [Retention](#)
- [Resource Requirements](#)
- [Programmer Notes](#)
- [Merge Process](#)

2.12.1 Data Storage

Each entry in the DUPLICATE RECORD (#15) file takes approximately **500** bytes, depending on the number of tests that are used and the number of packages that are affected by the record merge.

Each entry in the DUPLICATE RESOLUTION (#15.1) file takes approximately **28K**, depending on the number of tests that need to be run.

2.12.2 Retention

The data in the duplicate record is *not* meant to be purged or archived. If one chose to they could purge the verified *non*-duplicates, but this means that when the duplicate checking utilities are run these entries are put back in the DUPLICATE RECORD (#15) file and requires somebody to verify it again.

2.12.3 Resource Requirements

One terminal and one printer are required. A slave printer to the terminal would be very beneficial.

2.12.4 Programmer Notes

Developers need to determine if the merging of two file entries affects their package in such a way that they need to have their own unique merge that deals with only their package's files.

The following conditions usually mean that a developer has to write their own unique merge:

1. The patient pointer field is defined as a NUMERIC or FREE TEXT field rather than a POINTER.
2. The developer wants their end-users to complete some task prior to the merge occurring.
3. There are compound cross-references that include the patient pointer on another field, but the cross-reference is *not* triggered by the changing of the patient pointer.

4. The Merge (Duplicate Resolution Utilities) does *not* do what the package developer desires.

2.12.5 Merge Process

This section provides a description of what occurs during the merge:

1. Checks the base file (e.g., PATIENT [#2] file) to see if it exists.
2. Check the **PT** nodes [e.g., **^DD(2,0,"PT",)**] and any false positives are removed.
3. Creates a list of files and fields within those files that point to the file being merged (e.g., in this example the file being merged is the PATIENT [#2] file).

If a file is pointing to the file being merged by its **.01** field, and if that **.01** field is **DINUM**, then all files/fields that point to that file are also gathered. The **DINUM** rule also applies to that file and any files pointing to it, to any depth.

4. Checks each file/field and re-points/merges as follows:
 - If the field pointing is *not* a **.01** field, the "from entry" is changed to the "to entry".
 - If the field pointing is the **.01** field but *not* **DINUM**, the "from entry" is changed to the "to entry".
 - Each pointing **.01 DINUM** field is handled as follows:
 - If the **.01 DINUM** field is at the file level, **^DIT0** is called to merge the "from entry" to the "to entry" and then the "from entry" is deleted. **^DIT0** merges field by field but does *not* change any value in the "to entry". That means that **NULL** fields in the "to entry" get the value from the same field in the "from entry" if it is *not* **NULL**, and valued fields in the "to entry" remain the same. **^DIT0** also merges Multiples:
 - If a Multiple entry in the "from entry" *cannot* be found in the "to entry", it is added to the "to entry".
 - If a Multiple entry in the "from entry" can be found in the "to entry", then that Multiple entry is merged field by field.
 - If the **.01 DINUM** field is at the subfile level (in a Multiple), it is handled as follows:
 - If there is a "from entry" but no "to entry", the "from entry" is added to the "to entry", changing the **.01** field value in the process, and the "from entry" is deleted.
 - If there is a "from entry" and also a "to entry", the "from entry" is deleted and the "to entry" remains unchanged.

If it is determined that a developer *must* have their own unique merge that deals with their files, they *must* make the appropriate entries in the PACKAGE (#9.4) file. If they have to have some sort of action taken by end-users prior to the merging of the records, they *must* update the MERGE PACKAGES Multiple in the DUPLICATE RECORD (#15) file for that pair of records.

The following explains the entries that need to be made in the PACKAGE (#9.4) file:

- In your PACKAGE (#9.4) file make an entry in the AFFECTS RECORD MERGE (#20) field.
- In the .01 field, enter the file affected (e.g., PATIENT [#2] file).
- In the NAME OF MERGE ROUTINE (#9.402,3) field enter the name of your merge routine, which is executed via indirection by Duplicate Resolution Utilities. If you leave this field blank but still place an entry in the PACKAGE (#9.4) file, Duplicate Resolution Utilities assumes that you have some sort of interactive merge process that your end users must complete prior to the main merge occurring. It also assumes that this interactive merge process is on a separate option within the developer's package options. The values of the two records being merged are placed in:

^TMP("XDRMRGFR",\$J,XDRMRG("FR"))

And

^TMP("XDRMRGTO",\$J,XDRMRG("TO"))

These should be referenced by the developer if they need any certain field values since the values may have been changed prior to the execution of their merge routine.

- In the RECORD HAS PACKAGE DATA (#9.402,4) field you would enter a string of M executable code that is passed the **XDRMRG("FR")** variable (the "from record" IEN) and set **XDRZ** to **0**. The code should **SET XDRZ=1** if **XDRMRG("FR")** has data within your package files.

Remember to only make these entries in the PACKAGE (#9.4) file if the normal merge does *not* suffice for your package. If you have an entry in the PACKAGE (#9.4) file the repointing and merging as described above does *not* take place for those files within your package entry.

If you leave the NAME OF MERGE ROUTINE (#9.402,3) field blank, it is assumed that you have some sort of interactive merge process that must occur prior to the main merging of the two records. At the completion of your interactive merge process the developer *must* set the STATUS (#15.01101,.02) field of the MERGE PACKAGES (#15,1101) Multiple field for their package in the DUPLICATE RECORD (#15) file entry to **Ready**. This *must* be done using VA FileMan, because of the trigger that is on the STATUS (#15.01101,.02) field. Once all of the MERGE PACKAGE entries have a STATUS of **Ready**, the main merging of the two records can occur.

2.13 Configuring VAX/Alpha Performance Monitor (VPM)

Data from the VAX/Alpha Performance Monitor is stored in the ^XUCM global. This global grows at a rate of approximately **80k/day/node**. A task can be queued to automatically keep this global purged. Raw data occupies most of this growth rate and can be retained a shorter period (**1-3** months), while the daily averages in the CM DAILY STATISTICS (#8986.6) file should be retained considerably longer. This ensures its usefulness for trend analysis and other computations.

VAX/Alpha Performance Monitor (VPM) requires that TaskMan be set to run with a **DCL** context *prior* to configuring the performance monitor's site files. To configure the CM SITE

PARAMETERS (#8986.095) and CM SITE NODENAMES (#8986.3) files, run the Setup Performance Monitor option.

After editing these files, the host directory and **DCL** command files (**XUCMVPM.COM** and **XUCMMONITOR.COM**) are created by TaskMan. An alert is sent to you once this is complete. Re-run this option whenever CPUs are added/removed from your configuration.

Using the TaskMan **Schedule/Unschedule Options** [XUTM SCHEDULE] option queue XUCM TASK VPM to run *hourly*. This option is the data collection driver for the VMS Monitor and checks for and loads new data into the CM DISK DRIVE RAW DATA (#8986.5) and CM NODENAME RAW DATA (#8986.51) files. Each data collection runs for **15** minutes using **10** second sample intervals (rather than the default **3** second interval). Queue the option XUCM TASK NIT to run in the early a.m., (e.g., **0001** hours). This option compiles workday averages, mails server messages, and collects "static" information (e.g., node and hardware types). Finally, this option files selected **RTHIST** data and restarts **RTHIST** data collections for the next **24** hours.

3 Routines

This chapter provides information related to all executable routines exported with Kernel and Kernel Toolkit. Do *not* delete any routines with the exception of any initialization routines, which *can* be deleted *after* installation.



NOTE: This chapter lists the routines alphabetically and by category. Other routine information, such as the Routine Description, Size Histogram, Routine %Index, etc., can be generated through the use of Kernel Utilities.

3.1 Manager Account Routines

[Table 8](#) lists the Manager Account routines:

Table 8: Routines—Manager Account Routines

Routine	Description
%ZIS	Device Handler.
%ZIS1	Device Handler: Device input.
%ZIS2	Device Handler: Checks.
%ZIS3	Device Handler: Device types and parameters.
%ZIS5	Device lookup.
%ZIS6	Device Handler: Resources.
%ZIS7	Device Handler: Help.
%ZISC	Close logic for devices.
%ZISP	Collect screen parameters: Graphic set.
%ZISS	Collect screen parameters.

Routine	Description
%ZISS1	Collect screen parameters (continued).
%ZISS2	Collect screen parameters: Graphic set.
%ZISUTL	Device Handler: Utility routine.
%ZTER	Kernel Error Trap to log errors.
%ZTER1	Kernel Error Trap to log errors (continued).
%ZTLOAD	TaskMan: Application Program Interface: Entry Points.
%ZTLOAD1	TaskMan: Application Program Interface: Part 1: Queue.
%ZTLOAD2	TaskMan: Application Program Interface: Part 2: Queue.
%ZTLOAD3	TaskMan: Task Requeue.
%ZTLOAD4	TaskMan: Application Program Interface: Is Queued?
%ZTLOAD5	TaskMan: Application Program Interface: Task status.
%ZTLOAD6	TaskMan: Application Program Interface: Dequeue.
%ZTLOAD7	TaskMan: Utilities.
%ZTM	TaskMan: Manager: Part 1: Main Loop.
%ZTM0	TaskMan: Manager: Part 2: Begin.
%ZTM1	TaskMan: Manager: Part 3: Validate Task.
%ZTM2	TaskMan: Manager: Part 4: Link Handling 1.
%ZTM3	TaskMan: Manager: Part 5: Link Handling 2.
%ZTM4	TaskMan: Manager: Part 6: Waiting List.
%ZTM5	TaskMan: Manager: Part 7: Short Subroutines.
%ZTM6	TaskMan: Manager: Part 8: Load Balancing.
%ZTMOVE	Easier multi-CPU routine transfers.
%ZTMS	TaskMan: Submanager: Part 1: Entry and Trap functions.
%ZTMS0	TaskMan: Submanager: Part 2: Trap functions.
%ZTMS1	TaskMan: Submanager: Part 3: Loop and Get Task.
%ZTMS2	TaskMan: Submanager: Part 4: Unload, Get Device.
%ZTMS3	TaskMan: Submanager: Part 5: Run Task.
%ZTMS4	TaskMan: Submanager: Part 6: Setup, Cleanup.
%ZTMS7	TaskMan: Submanager: GetNext.
%ZTMSH	TaskMan: Submanager: Utility: Header Page.
XUCIDTM	Swap UCIs DSM-11.
XUCIMSM	Swap UCIS for MSM-UNIX.

Routine	Description
XUCIMSQ	Swap UCIs M/SQL.
XUCIVXD	Swap UCIs VAX/DSM.
ZIS4VXD	Device Handler: Spool specific code (VAX DSM).
ZISETDTM	Initialize DEVICE (#3.5) file for D7 . This routine initializes the DEVICE (#3.5) file with the current port number or updates the device file if new hardware has been added.
ZISETMSM	Initialize DEVICE (#3.5) file for MSM-68. This routine initializes the DEVICE (#3.5) file with the current port number.
ZISETVXD	Initialize DEVICE (#3.5) file. This routine initializes the DEVICE (#3.5) file with the current port number.
ZISFMSM	HOST files: Code for MSM.
ZISFVXD	HOST files: Code for VAX DSM.
ZISHMSM	Host files: Control for MSM.
ZISHVXD	VAX DSM Host file control.
ZISX	Executes nodes in the ^%ZIS global.
ZOSFMSM	Sets up ^%ZOSF for MSM-UNIX systems.
ZOSFVXD	ZOSF table for VAX DSM 3.3, 4, and 6.
ZOSV2VXD	Capacity Management: Performance Data.
ZOSVMSM	MSM-PC/PLUS: \$View commands.
ZOSVVXD	View commands and special functions.
ZTBKCDTM	DTM: Block count.
ZTBKCMSM	MSM: Block count.
ZTBKCVXD	VAX DSM: Block count.
ZTMB	TaskMan: Manager: Boot/ Option: ZTMRESTART .
ZTMCHK	TaskMan: Option: ZTMCHECK : Part 1.
ZTMCHK1	TaskMan: Option: ZTMCHECK : Part 2.
ZTMDCL	TaskMan: Run TaskMan with a DCL context.
ZTMGRSET	Set up the Production account for the system.
ZTMKU	TaskMan: Option: ZTMWAIT/RUN/STOP .
ZTMON	TaskMan: Option: ZTMON : Part 1: Main Loop.
ZTMON1	TaskMan: Option: ZTMON : Part 2: Main Loop.
ZUA	Audit access.

3.2 Production Account Routines

[Table 9](#) lists the Production account routines for Kernel and Toolkit:



NOTE: The Kernel and Kernel Toolkit routine namespaces include: “XDR*,” “XG*,” “XI*,” “XLF*,” “XPAR*,” “XPD*,” “XQ*,” “XT*,” “XU*,” “ZIS*,” “ZOS*,” “ZTM*,” and “ZU*.”

Table 9: Routines—Kernel and Toolkit Production Account Routines

Routine	Description
XDR2NULL	TBD
XDRCNT	Tally records by STATUS and MERGE STATUS fields.
XDRDADD	This routine makes the entries in the DUPLICATE RECORD (#15) file. Called by: XDRDUP Calls: FILE^DICN, DIE, EN^XDRMAIN
XDRDADDS	TBD
XDRDADJ	This routine is executed by a MUMPS cross-reference on the MERGE STATUS field of the DUPLICATE RECORD (#15) file only when the STATUS is set to Merged . This routine checks for entries in the file that are affected by the merging of this entry and adjusts their .01 and .02 fields accordingly. The problem being addressed is as follows: <ul style="list-style-type: none"> • 1 to 5 If 5 to 10 merged first, 1 to 10 • 5 to 10 then other entries would 5 to 10 • 5 to 20 be adjusted as follows: 10 to 20 Or, if both 1 to 5 and 1 to 10 existed at the time of the merge, the 1 to 5 entry would be deleted. The STATUS (#.03) field is re-indexed because it sets cross-references based on the values in the .01 and .02 fields. Triggers are <i>not</i> fired for the .01 , .02 , or .03 fields. Entries previously resolved are ignored. Called by: Cross-reference on MERGE STATUS field of DUPLICATE RECORD (#15) file entry. Calls: EN^XDRDUP, DIK
XDRDCOMP	This routine compares two file records via the Duplicate Checker algorithm. Calls: %ZIS, %ZISC, %ZTLOAD, DIC, DIR, EN^DITC, FILE^XDRDQUE, XDRDSCOR, XDRDUP
XDRDDATA	TBD
XDRDEDT	TBD
XDRDEFLG	TBD
XDRDFPD	Find all potential duplicates for an entry in a file.

Routine	Description
XDRDLIST	This routine is responsible for the printing of various reports from the DUPLICATE RECORD (#15) file. It prints listings of potential duplicates, ready, and not ready to merge verified duplicates. Calls: EN1^DIP , DIR , FILE^XDRDQUE
XDRDMAIN	This is the main driver for the duplicate checking routines. Calls: NOW^%DTC , DIE , DIK , XDRDPDTI , XDRDUP , XDREMSG , XDRMAINI
XDRDOC	Additional routine documentation.
XDRDOC1	XDRDOC continued.
XDRDOC2	XDRDOC continued.
XDRDPDTI	This routine is called by XDRDMAIN when the Potential Duplicate threshold has been raised. This routine \$ORDERS through the " APOT " cross-reference on the DUPLICATE RECORD (#15) file, and deletes all entries that have a DC Dupe Match Score that does <i>not</i> meet the Potential Duplicate Threshold value. It also updates the DC POTENTIAL DUPE THRESHOLD%. It should be noted that if a person changes the weights of the Duplicate Tests, they should delete all Potential Duplicates, Unverified and rerun the Duplicate Resolution search. Called by: XDRDMAIN Calls: DIE , DIK , EN^XDRDUP
XDRDPICK	TBD
XDRDPRE1	TBD
XDRDPREL	TBD
XDRDPRG2	TBD
XDRDPRGE	This routine enables the Duplicate Resolution Manager to purge the DUPLICATE RECORD (#15) file. They can purge Potential Duplicates, Verified Non-Duplicates, or both. Verified Duplicates <i>cannot</i> be purged until FileMan institutes some sort of archival or merged node. Calls: %ZTLOAD , DIC , DIR , DIK
XDRDQUE	This routine starts and stops the Duplicate Checking software when it is running in the background. If no search is running, it allows the user to queue a search to start up. If a search has been halted they may continue the search starting at the point they halted. Called by: XDRDCOMP , XDRDLIST , XDRDSCOR , XDRMADD (All these calls by above are if XDRFL is undefined) Calls: %ZTLOAD , DIC , Y^DIQ , DIR , CHECK^XDRU1 , XDRCNT , XDRDFPD

Routine	Description
XDRDSCOR	This routine sets the scores for the Duplicate Checking algorithm. Called by: XDRDCOMP , XDRDFPD , XDRDUP , XDRMADD , XDRMAINI Calls: FILE^XDRDQUE , XDREMSG
XDRDSHOW	TBD
XDRDSTAT	This routine displays the status of a particular search for duplicates. Calls: DIC , Y^DIQ
XDRDUP	This routine does the actual checking of two records and makes the determination if they are potential duplicates. Called by: XDRDADJ , XDRDCOMP , XDRDMAIN , XDRMADD Calls: EN^DIQ1 , XDRDADD , XDRDSCOR , XDREMSG
XDRDVAL	TBD
XDRDVAL1	TBD
XDRDVAL2	TBD
XDREMSG	This routine is responsible for either sending error messages to the user, or if the calling routine is running in the background, it sends a bulletin to the people in the duplicate manager mail group if one is defined. The meanings of XDRERR are as follows: <ul style="list-style-type: none"> • 1—The candidate collection routine is undefined. • 2—The candidate collection routine is not present. • 3—The potential duplicate threshold is undefined. • 4—There are no duplicate tests entered for this duplicate resolution entry. • 5—The global root node in DIC is undefined. • 6—No entry in DUPLICATE RESOLUTION (#15.1) file for this file. • 7—The From and To records are undefined. • 8—The test routine is not present. • 9—The routine defined as the pre-merge routine is not present. • 10—The routine defined as the post-merge routine is not present. • 11—The routine defined as the verified msg routine is not present. • 12—The routine defined as the merged msg routine is not present. • 13—Non-interactive merge style not allowed with DINUM files for merge entries. Called by: XDRDMAIN , XDRDSCOR , XDRDUP , XDRMAINI , XDRU1 Calls: XMB
XDRHLP	Contains code for executable help from the DUPLICATE RECORD (#15) and DUPLICATE RESOLUTION (#15.1) files.

Routine	Description
XDRLRFIX	TBD
XDRMADD	Adds entries to the DUPLICATE RECORD (#15) file with a status of Verified Duplicates. Calls: DIC , FILE^DICN , DIE , FILE^XDRDQUE , XDRDSCOR , XDRDUP , EN^XDRMAIN
XDRMAIN	Main Driver for the merge portion of the Duplicate Merge Utilities. Called by: XDRDADD , XDRMADD Calls: DIC , DIE , DIR , XDRMAINI , XDRMPACK , XDRMRG , XDRMSG , XDRMVFY <ul style="list-style-type: none"> • EN—Entry point for automatic merge. • EN1—Entry point for looping through verified ready to merge duplicates. • EN2—Entry point to select verified ready to merge duplicate pair. • EN3—Entry point to select unverified potential duplicate pair.
XDRMAINI	Initialization routine for XDRMAIN and XDRDMAIN . Called by: XDRDMAIN , XDRMAIN Calls: DIC , XDRDSCOR , XDREMSG
XDRMERG	TBD
XDRMERG0	TBD
XDRMERG1	TBD
XDRMERG2	TBD
XDRMERGA	TBD
XDRMERGB	TBD
XDRMERGC	TBD
XDRMPACK	This routine is responsible for checking PACKAGE (#9.4) file for unique package merges and for checking these package's files to see if they have data for the merged "from" record. Called by: XDRMAIN Calls: DIE
XDRMRG	This is the routine that does the actual merging of the duplicate records. Called by: XDRMAIN Calls: DIE , DIK , EN^DIT0 , DITM2 , EN^DITMGMRG , LOCK^XDRU1
XDRMRG1	This routine is the error trap for XDRMRG . Calls: %ET , DIE

Routine	Description
XDRMSG	This routine is responsible for the sending of the verified and merged messages. Called by: XDRMAIN Calls: XMB
XDRMVFY	This routine is responsible for verifying potential duplicates. Called by: XDRMAIN Calls: DIE, DIR, EN^DITC
XDRPREL1	TBD
XDRPREI	This is a pre-init routine for the XDR package that deletes the DUPLICATE RECORD (#15) and DUPLICATE RESOLUTION (#15.1) files' dictionaries.
XDRPTCAN	TBD
XDRPTCLN	TBD
XDRPTDOB	TBD
XDRPTDOD	TBD
XDRPTLSD	TBD
XDRPTMMN	TBD
XDRPTN	TBD
XDRPTSSN	TBD
XDRPTSX	TBD
XDRRMRG0	TBD
XDRRMRG1	TBD
XDRRMRG2	TBD
XDRU	This routine is a utility routine for the merge software; it does some testing for the merge software and provides the locking subroutines for the merge. Called by: XDRDQUE, XDRMRG Calls: XDREMSG
XDRUTL	TBD
XDRVCHEK	TBD
XGF	Graphics functions.
XGFDEMO	Demonstrate graphics functions.
XGFDEMO1	Demonstrate graphics functions (continued).
XGKB	Read with escape processing.

Routine	Description
XGKB1	Read with escape processing (continued).
XGS	Screen primitives.
XGSA	Screen attribute primitives.
XGSBOX	Screen rectangular region primitives.
XGSETUP	Set up KWAPI environment.
XGSW	Screen window primitives.
XINDEX	The XIND* series of routines is the VA Cross-referencer. These routines are saved in the Manager's account as %IND* routines.
XINDX1	%INDEX continued.
XINDX10	%INDEX continued.
XINDX11	%INDEX continued.
XINDX2	%INDEX continued.
XINDX3	%INDEX continued.
XINDX4	%INDEX continued.
XINDX5	%INDEX continued.
XINDX51	%INDEX continued.
XINDX52	%INDEX continued.
XINDX53	%INDEX continued.
XINDX6	%INDEX continued.
XINDX7	%INDEX continued.
XINDX8	%INDEX continued.
XINDX9	%INDEX continued.
XIPENV	TBD
XIPMAIL	TBD
XIPMAILA	TBD
XIPMAILB	TBD
XIPPOST	TBD
XIPSRVR	TBD
XIPSYNC	TBD
XIPUTIL	TBD
XIPUTIL1	TBD
XIPXREF	TBD

Routine	Description
XLFCRC	TBD
XLFDT	Date/Time functions.
XLFDT1	Date/Time functions (continued).
XLFDT2	Date/Time functions: Schedule.
XLFDT3	Date/Time functions: Schedule (continued).
XLFDT4	Date/Time functions: Exclude time.
XLFHYP	Hyperbolic math functions.
XLFIPV	TBD
XLFLTR	Print big letters.
XLFLTR1	Set up letters.
XLFMSMT	Measurement functions.
XLFMSMT2	Measurement functions (continued).
XLFMTH	Math functions.
XLFMTH1	Math functions (continued).
XLFNAME	TBD
XLFNAME1	TBD
XLFNAME2	TBD
XLFNAME3	TBD
XLFNAME4	TBD
XLFNAME5	TBD
XLFNAME6	TBD
XLFNAME7	TBD
XLFNAME8	TBD
XLFNENV	TBD
XLFP152	TBD
XLFP176	TBD
XLFNSLK	TBD
XLFSHA	Secure Hash Algorithm (SHA) APIs.
XLFSTR	String functions.
XLFUTL	Utility functions: Check digit.
XPAR	TBD

Routine	Description
XPAR1	TBD
XPAR2	TBD
XPAR3	TBD
XPARDD	TBD
XPARDD1	TBD
XPARDD2	TBD
XPARDDAC	TBD
XPAREDIT	TBD
XPAREDT1	TBD
XPAREDT2	TBD
XPAREDT3	TBD
XPARLIST	TBD
XPARTPV	TBD
XPARTPV1	TBD
XPARY26	TBD
XPARZUTL	TBD
XPDB1	TBD
XPDCOM	Compare transport global.
XPDCOMF	TBD
XPDCOMG	Compare globals.
XPDCOML	TBD
XPDCPU	Code that updates each CPU.
XPDDCS	Display checksum for a package.
XPDDI	KIDS: Display an installation.
XPDDP	KIDS: Display a package.
XPDDP1	KIDS: Display a package.
XPDDPCK	TBD
XPDE	KIDS: Package edit.
XPDER	TBD
XPDET	KIDS: Input transforms and help for the BUILD (#9.6) file and INSTALL (#9.7) file.
XPDGCDEL	KIDS: Delete specified objects, if <i>not</i> required.

Routine	Description
XPDH	KIDS: Help for answering installation questions.
XPDI	KIDS: Installation process.
XPDI1	KIDS: Installation process (continued).
XPDIA	KIDS: Install pre/post actions for Kernel Files.
XPDIA0	KIDS: Install pre/post actions for Kernel Files (continued).
XPDIA1	KIDS: Install pre/post actions for Kernel Files (continued).
XPDIA2	KIDS: Delete options and clean up pointers.
XPDIA3	KIDS: Delete options and clean up pointers.
XPDIB	TBD
XPDID	KIDS: Display installation progress.
XPDIGP	KIDS: Load global distribution.
XPDIJ	KIDS: Installation job.
XPDIJ1	KIDS: Installation job.
XPDIK	KIDS: Install Kernel files and VA FileMan files.
XPDIL	KIDS: Load distribution global.
XPDIL1	KIDS: Load distribution global (continued).
XPDIN001	KIDS: Init routine.
XPDIN002	KIDS: Init routine.
XPDIN003	KIDS: Init routine.
XPDIN004	KIDS: Init routine.
XPDIN005	KIDS: Init routine.
XPDIN006	KIDS: Init routine.
XPDIN007	KIDS: Init routine.
XPDIN008	KIDS: Init routine.
XPDIN009	KIDS: Init routine.
XPDIN00A	KIDS: Init routine.
XPDIN00B	KIDS: Init routine.
XPDIN00C	KIDS: Init routine.
XPDIN00D	KIDS: Init routine.
XPDIN00E	KIDS: Init routine.
XPDIN00F	KIDS: Init routine.

Routine	Description
XPDIN00G	KIDS: Init routine.
XPDIN00H	KIDS: Init routine.
XPDIN00I	KIDS: Init routine.
XPDIN00J	KIDS: Init routine.
XPDIN00K	KIDS: Init routine.
XPDIN00L	KIDS: Init routine.
XPDIN00M	KIDS: Init routine.
XPDIN00N	KIDS: Init routine.
XPDIN00O	KIDS: Init routine.
XPDIN00P	KIDS: Init routine.
XPDIN00Q	KIDS: Init routine.
XPDIN00R	KIDS: Init routine.
XPDIN00S	KIDS: Init routine.
XPDIN00T	KIDS: Init routine.
XPDINIT	KIDS: Init routine.
XPDINIT1	KIDS: Init routine.
XPDINIT2	KIDS: Init routine.
XPDINIT3	KIDS: Init routine.
XPDINIT4	KIDS: Init routine.
XPDINIT5	KIDS: Init routine.
XPDIP	KIDS: Install PACKAGE (#9.4) and ROUTINE (#9.8) file.
XPDIPM	KIDS: Load a Packman message.
XPDIQ	KIDS: Install questions.
XPDIR	KIDS: Install restart.
XPDIST	KIDS: Site tracking.
XPDIU	KIDS: Unload/Convert/Rollup distribution global.
XPDKY	KIDS: Tools to work on keys.
XPDKRN	KIDS: Installation program.
XPDMENU	KIDS: Manage menu items.
XPDNTEG	KIDS: Package checksum checker.
XPDPINIT	KIDS: Load a Packman message using KIDS.

Routine	Description
XPDPROT	TBD
XPDR	KIDS: Routine file edit.
XPDRSUM	KIDS: Routine checksum utilities.
XPDT	KIDS: Transport a package.
XPDTA	KIDS: Build actions for Kernel files.
XPDTA1	KIDS: Build actions for Kernel files (continued).
XPDTA2	KIDS: Build actions for Kernel files (continued).
XPDTC	KIDS: Transport calls.
XPDTP	KIDS: Transport using a Packman message.
XPDUTL	KIDS: Returns parameters of check point.
XPDUTL1	KIDS: Returns parameters of check point.
XPDV	KIDS: Verify build.
XQ	MenuMan: Menu driver: Part 1.
XQ1	MenuMan: Menu driver: Part 2.
XQ11	MenuMan: Menu utilities.
XQ12	MenuMan: Utilities.
XQ2	MenuMan: Menu lister and utilities.
XQ21	MenuMan: Option: XUUSERDISP .
XQ3	MenuMan: Clean up dangling pointers in option or help frame files.
XQ31	MenuMan: Menu management reports.
XQ32	MenuMan: List users with specified menu.
XQ33	MenuMan: Remove unreferenced options.
XQ4	MenuMan: Menu diagram with entry/exit actions.
XQ41	MenuMan: Menu diagram with entry/exit actions (continued).
XQ5	MenuMan: Menu edit utilities Edit Option [XUEDITOPT].
XQ55	MenuMan: Search for user's access to an option.
XW55SPEC	TBD
XQ6	MenuMan: Bulk key distribution.
XQ61	MenuMan: Bulk editorship assignment.
XQ62	MenuMan: Generalized file lookup utility.
XQ6A	MenuMan: Bulk key distribution (continued).

Routine	Description
XQ6B	MenuMan: Bulk key distribution (continued).
XQ7	MenuMan: Microsurgery of XUTL menu trees.
XQ71	MenuMan: Lookup response to menu prompt.
XQ72	MenuMan: Jump (“^”) utilities: Part 1.
XQ72A	MenuMan: Jump (“^”) utilities: Part 2.
XQ73	MenuMan: Rubber Band Jump (^^) processor.
XQ74	MenuMan: Phantom Jump processor.
XQ75	MenuMan: Lookup response for jumps.
XQ8	MenuMan: Build menu trees.
XQ81	MenuMan: Build menu trees (continued).
XQ82	MenuMan: Clean old \$JOB data out of XUTL (“ XQ ”, and others.
XQ83	MenuMan: Find ^XUTL nodes needing surgery.
XQ83A	MenuMan: Microsurgery on menu trees to add a new item to a menu.
XQ83D	MenuMan: Microsurgery on menu trees for item deleted from menu.
XQ83R	MenuMan: Microsurgery on ^XUTL (“ XQO ”, nodes for regular modifications to options.
XQ88	TBD
XQ8A	MenuMan: Rebuild menus in all production accounts.
XQ9	MenuMan: Restrict availability of options.
XQ91	MenuMan: Restrict availability of options (continued).
XQ92	MenuMan: Date/Time for prohibited Time/Day.
XQ93	MenuMan: Date/Time for prohibited Time/Day (continued).
XQA366PO	TBD
XQABELOG	Alpha/Beta: Log alpha/beta errors received.
XQABERR	Alpha/Beta: Track errors in alpha/beta routines back to OIFO.
XQABLIST	Alpha/Beta: List usage of options in alpha/beta test.
XQABLOAD	Alpha/Beta: Set up if alpha/beta test site.
XQABTMP	TBD
XQAL173P	TBD
XQAL285P	TBD
XQALBUTL	Alerts: Utilities for OE/RR notifications.
XQALDATA	Alerts: Provide data on alerts.

Routine	Description
XQALDEL	Alerts: Delete.
XQALDOIT	Alerts: Handler.
XQALERT	Alerts: Handler.
XQALERT1	Alerts: Handler.
XQALFWD	Alerts: Forward.
XQALGUI	TBD
XQALMAKE	Alerts: High level setup.
XQALSET	Alerts: Setup.
XQALSET1	Alerts: Setup.
XQALSUR1	TBD
XQALSUR2	TBD
XQALSURO	TBD
XQARPRT1	TBD
XQARPRT2	TBD
XQCHK	MenuMan: Check security on option # XQCY .
XQCHK1	TBD
XQCHK2	TBD
XQCHK3	TBD
XQCS	TBD
XQDATE	MenuMan: Return Human readable date.
XQH	MenuMan: Help Processor.
XQH0	MenuMan: Help Processor (continued).
XQH1	MenuMan: Help Processor (continued).
XQH2	MenuMan: Help Processor (continued).
XQH3	MenuMan: Help frame cross-reference by parent.
XQH4	MenuMan: Help frame lister.
XQH5	MenuMan: Help frame lister (continued).
XQHLP	MenuMan: Menu helper.
XQKEY	MenuMan: Key and lock utilities.
XQLOCK	MenuMan: Find all the keys in the tree.
XQLOCK1	MenuMan: Utilities for keys in the tree.

Routine	Description
XQOO	MenuMan: Out-of-Order, man.
XQOO1	MenuMan: Out-of-Order set calls.
XQOO2	MenuMan: Out-of-Order manager utilities.
XQOO3	MenuMan: Out-of-Order utilities.
XQOPED	TBD
XQOR	MenuMan: Prepare to unwind options.
XQOR1	MenuMan: Main unwinding loop.
XQOR2	MenuMan: Process extended actions: Protocols.
XQOR3	MenuMan: Process Menus: Protocol menus.
XQOR4	MenuMan: Process ^^ jump.
XQORD	MenuMan: Dialogue utility.
XQORD1	MenuMan: Process Menus: WP during dialogue.
XQORD101	TBD
XQORDD1	TBD
XQORM	MenuMan: Menu utility.
XQORM1	MenuMan: Display selections and prompt.
XQORM2	MenuMan: Lookup for menu utility.
XQORM3	MenuMan: Lookup for menu utility (continued).
XQORM4	MenuMan: Menu messages.
XQORM5	MenuMan: Menu help.
XQORMX	MenuMan: Compile formatted menus.
XQORO	MenuMan: Order Entry calls.
XQOROP	TBD
XQP46INI	TBD
XQP50	TBD
XQSET	MenuMan: Rebuild display/user XUTL("XQO") .
XQSMD	MenuMan: Secure Menu Delegation (SMD): Part 1.
XQSMD1	MenuMan: Secure Menu Delegation: Part 2.
XQSMD2	MenuMan: Secure Menu Delegation: Part 3.
XQSMD21	MenuMan: Secure Menu Delegation: Part 4.
XQSMD3	MenuMan: Secure Menu Delegation utilities.

Routine	Description
XQSMD31	MenuMan: Secure Menu Delegation utilities (continued).
XQSMD4	MenuMan: Edit a user's options.
XQSMD5	MenuMan: Secure menu delegate edit user options.
XQSMD6	TBD
XQSMDCPY	MenuMan: Copy one user (primary and secondary menus, keys, files) to another user.
XQSMDFM	MenuMan: Permit user to build limited VA FileMan options.
XQSM DP	MenuMan: Post Init for XQSMD Kernel 6.
XQSRV	MenuMan: Server message processor.
XQSRV1	MenuMan: Server option utilities.
XQSRV2	MenuMan: Server task handler.
XQSRV3	MenuMan: Server to MailMan utilities.
XQSRV4	MenuMan: Server utilities.
XQSRV5	MenuMan: Check out a server option server.
XQSTCK	MenuMan: Stack utilities.
XQSUITE	TBD
XQSUITE1	TBD
XQT	MenuMan: Menu template loader.
XQT1	MenuMan: Menu template processor.
XQT2	MenuMan: Define a path template.
XQT3	MenuMan: Create menu templates (continued).
XQT4	MenuMan: Menu template utilities.
XQT5	MenuMan: Menu template utilities (continued).
XQTOC	MenuMan: Time Out/Continue/Jump Start.
XQUIT	TBD
XQUSR	MenuMan: Option: Display User Characteristics [XUUSERDISP].
XQUTL	TBD
XT73P113	TBD
XT73P129	TBD
XT73P132	TBD
XT73P133	TBD
XT73P136	TBD

Routine	Description
XT73P33	TBD
XT73P34	TBD
XT73P44	TBD
XT73P94	TBD
XT73P98	TBD
XT95POST	TBD
XTDEBUG	TBD
XTDEBUG1	TBD
XTDEBUG2	TBD
XTDEBUG3	TBD
XTDEBUG4	TBD
XTDEBUG5	TBD
XTDEBUG6	TBD
XTDEBUG7	TBD
XTDEBUG8	TBD
XTECGLO	TBD
XTECLIPS	TBD
XTECROU	TBD
XTEDTVXD	TBD
XTER	Error Processing: Option: Error Trap Display [XUERTRAP].
XTER1	Error Processing: Kernel Error Trap Display.
XTER1A	Error Processing: VA error reporting.
XTER1A1	Error Processing: VA error reporting (continued).
XTER1B	Error Processing: Package-specific variable identification.
XTER2	Error Processing: Modification of % XTER for use with VAX DSM.
XTERPUR	Error Processing: Delete entries from Error Trap.
XTERSUM	TBD
XTERSUM1	TBD
XTERSUM3	TBD
XTERSUM4	TBD
XTFC1	TBD


Routine	Description
XTFCE	TBD
XTFCE1	TBD
XTHC	TBD
XTHC10	TBD
XTHC10A	TBD
XTHCDEM	TBD
XTHCURL	TBD
XTHCUTL	TBD
XTID	TBD
XTID1	TBD
XTIDCTX	TBD
XTIDSET	TBD
XTIDTBL	TBD
XTIDTERM	TBD
XTIDTRM	TBD
XTKERM1	TBD
XTKERM2	TBD
XTLATSET	TBD
XTMLOG	TBD
XTMLOG1	TBD
XTMLOPAR	TBD
XTMLOSKT	TBD
XTMRPAR1	TBD
XTMRPAR2	TBD
XTMRPRNT	TBD
XTMUNIT	TBD
XTPMKPCF	TBD
XTPMKPP	TBD
XTPMKPTC	TBD
XTPMNEX7	TBD
XTPMSTA2	TBD

Routine	Description
XTPMSTAT	TBD
XTPOST	TBD
XTRCMP	TBD
XTRMON	Watch for changes in routine checksums.
XTRUTL	TBD
XTRUTL1	TBD
XTRUTL2	TBD
XTSUMBLD	TBD
XTSUMCK	TBD
XTSUMCK1	TBD
XTVNUM	TBD
XTVRC1	TBD
XTVRC1A	TBD
XU8343P	TBD
XU8343Q	TBD
XU8343R	TBD
XU8343S	TBD
XU8375P	TBD
XU8P125	TBD
XU8P132	TBD
XU8P1321	TBD
XU8P1322	TBD
XU8P135	TBD
XU8P137	TBD
XU8P204	TBD
XU8P246	TBD
XU8P260	TBD
XU8P264	TBD
XU8P264A	TBD
XU8P292	TBD
XU8P295	TBD

Routine	Description
XU8P297	TBD
XU8P307	TBD
XU8P314	TBD
XU8P317	TBD
XU8P324	TBD
XU8P327	TBD
XU8P328	TBD
XU8P328A	TBD
XU8P328B	TBD
XU8P328C	TBD
XU8P328D	TBD
XU8P330X	TBD
XU8P332	TBD
XU8P334	TBD
XU8P344	TBD
XU8P352	TBD
XU8P354	TBD
XU8P356	TBD
XU8P360	TBD
XU8P365	TBD
XU8P369	TBD
XU8P370	TBD
XU8P373	TBD
XU8P377	This routine was exported with Kernel Patch XU*8.0*377. This routine inactivates old Person Class entries.
XU8P377D	<p>This routine was exported with Kernel Patch XU*8.0*377. This routine lists all users that will have their Person Class inactivated by Kernel Patch XU*8.0*377. In the report, the column DISUSER will indicate either of the following:</p> <ul style="list-style-type: none"> • NO—An active user account. • YES—A <i>non</i>-active user account. <p>Sites <i>must</i> manually update the new Person Class entries for these users.</p>
XU8P378	TBD

Routine	Description
XU8P378A	TBD
XU8P378B	TBD
XU8P378C	TBD
XU8P378E	TBD
XU8P381	TBD
XU8P386	TBD
XU8P387	TBD
XU8P387X	TBD
XU8P410	TBD
XU8P413	TBD
XU8P420	TBD
XU8P426	TBD
XU8P428	TBD
XU8P432	TBD
XU8P436	TBD
XU8P43P	TBD
XU8P440	TBD
XU8P444	TBD
XU8P446	TBD
XU8P452	TBD
XU8P453	TBD
XU8P455	TBD
XU8P459	TBD
XU8P463	TBD
XU8P466	TBD
XU8P467	TBD
XU8P467A	TBD
XU8P469	TBD
XU8P480	TBD
XU8P481	TBD
XU8P483	TBD

Routine	Description
XU8P487	TBD
XU8P497	TBD
XU8P497A	TBD
XU8P499	TBD
XU8P504	TBD
XU8P509	TBD
XU8P509A	TBD
XU8P509B	TBD
XU8P509C	TBD
XU8P509D	TBD
XU8P511	TBD
XU8P514	TBD
XU8P518	TBD
XU8P524	TBD
XU8P531	TBD
XU8P531A	TBD
XU8P531B	TBD
XU8P536	TBD
XU8P540	TBD
XU8P541	TBD
XU8P541A	TBD
XU8P543	TBD
XU8P545	TBD
XU8P545A	TBD
XU8P546	TBD
XU8P560	TBD
XU8P571	TBD
XU8P572	TBD
XU8P580	TBD
XU8P581	TBD
XU8P582	TBD

Routine	Description
XU8P584	TBD
XU8P585	TBD
XU8P586	TBD
XU8P591	TBD
XU8P598	TBD
XU8P599	TBD
XU8P601	TBD
XU8P601A	TBD
XU8P601B	TBD
XU8P604	TBD
XU8P608	Kernel Lock Manger utility.
XU8P608B	Kernel Lock Manger utility.
XU8P616	TBD
XU8P638	TBD
XU8P672E	Environment check routine for Kernel Patch XU*8.0*672.
XU8PATCH661POST	TBD
XU8PS629	TBD
XUA4A7	Give entries into F6 a Provider key.
XUA4A71	Better Soundex. Extrinsic function call with string, returns converted string.
XUA4A72	<p>Better Soundex. Extrinsic function call with string, returns converted string.</p> <p>This routine was exported with Kernel Patch XU*8.0*27. This routine provides the Person Class APIs.</p> <p> REF: For more information on the Person Class APIs, see the <i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i>.</p>
XUA4A73	Better Soundex. Extrinsic function call with string, returns converted string.
XUAF4	TBD
XUAPURGE	Purge % ZUA global files.
XUBA	TBD
XUCERT	Kernel PKI Certificate Utilities.
XUCERT1	Kernel PKI Certificate Utilities (continued).

Routine	Description
XUCIDTM	Swap UCIs: DSM-11.
XUCIGTM	TBD
XUCIMSM	Swap UCIs: MSM-UNIX.
XUCIMSQ	Swap UCIs: M/SQL.
XUCIONT	TBD
XUCIVXD	Swap UCIs: VAX/DSM.
XUCMNIT	TBD
XUCMNIT1	TBD
XUCMNIT2	TBD
XUCMNIT4	TBD
XUCMNT3A	TBD
XUCMPA	TBD
XUCMPR17	TBD
XUCMVPI	TBD
XUCMVPM	TBD
XUCMVPM1	TBD
XUCMXDR	TBD
XUCMXUTL	TBD
XUCS1E	TBD
XUCS1R	TBD
XUCS1RB	TBD
XUCS2E	TBD
XUCS2R	TBD
XUCS2RB	TBD
XUCS4E	TBD
XUCS4R	TBD
XUCS4RB	TBD
XUCS6R	TBD
XUCS8E	TBD
XUCS8R	TBD
XUCS8RB	TBD

Routine	Description
XUCS8RG	TBD
XUCSCDE	TBD
XUCSCDG	TBD
XUCSCDR	TBD
XUCSCDRB	TBD
XUCSPRG	TBD
XUCSRV	TBD
XUCSTM	TBD
XUCSTME	TBD
XUCSUTL3	TBD
XUCSXCD	TBD
XUCSXDR	TBD
XUCSXGR	TBD
XUCSXRT	TBD
XUCSXST	TBD
XUDHGUI	TBD
XUDHRES	TBD
XUDHSET	TBD
XUDHUTL	TBD
XUEPCSED	EPCS Utilities and Reports. RPC to handle ePCS data changes (Released with XU*8.0*580).
XUEPCSRT	EPCS Utilities and Reports (Released with XU*8.0*580).
XUESSO1	Single Sign-On Utilities.
XUESSO2	Enhanced Single Sign-On Utilities.
XUESSO3	Enhanced Single Sign-On Utilities.
XUESSO4	Enhanced Single Sign-On Utilities.
XUFILE	Assign and delete file access.
XUFILE0	Assign and delete file access (continued).
XUFILE1	Assign and delete file access (continued).
XUFILE3	File access control for Kernel 8.
XUGET	Package integrity checker.

Routine	Description
XUGOT	TBD
XUGOT1	TBD
XUHUI	TBD
XUHUI236	TBD
XUHUIHL7	TBD
XUHUIMSG	TBD
XUINCON	Builds accessible file multiple.
XUINEACH	Code that needs to be run on each CPU.
XUINEND	Post Install for Kernel 8.0.
XUINENV	TBD
XUINOK	Check to see if OK to load.
XUINP275	TBD
XUINP313	TBD
XUINP337	TBD
XUINP348	TBD
XUINPCH	TBD
XUINPCH2	TBD
XUINPCH3	TBD
XUINPCH4	TBD
XUINPRE	Kernel 8 pre-initialization.
XUINPRE1	Kernel 8 pre-initialization.
XUINTSK	TaskMan: Version 7.1 post-Init.
XUINTSK1	TaskMan: Version 7.1 post-Init.
XUINTSK2	Reschedule tasks in IO , JOB , LINK queues.
XULM	Kernel Lock Manger utility.
XULM1	Kernel Lock Manger utility.
XULMLD	Kernel Lock Manger utility.
XULMLOG	Kernel Lock Manger utility.
XULMOUT	Kernel Lock Manger utility.
XULMP	Kernel Lock Manger utility.
XULMRPC	Kernel Lock Manger utility.

Routine	Description
XULMU	Kernel Lock Manger utility.
XULMUI	Kernel Lock Manger utility.
XULMUI1	Kernel Lock Manger utility.
XUMF	TBD
XUMF0	TBD
XUMF04	TBD
XUMF04H	TBD
XUMF04P	TBD
XUMF04Q	TBD
XUMF1H	TBD
XUMF218	TBD
XUMF218A	TBD
XUMF218Z	TBD
XUMF261P	TBD
XUMF299	TBD
XUMF333	TBD
XUMF382	TBD
XUMF390	TBD
XUMF397	TBD
XUMF4	TBD
XUMF416	TBD
XUMF479P	TBD
XUMF4A	TBD
XUMF4H	TBD
XUMF4L0	TBD
XUMF4L1	TBD
XUMF4L2	TBD
XUMF502	TBD
XUMF502P	TBD
XUMF512F	TBD
XUMF555P	TBD

Routine	Description
XUMF5AT	TBD
XUMF5AU	TBD
XUMF5BYT	TBD
XUMF5I	TBD
XUMF5II	TBD
XUMF654	TBD
XUMF654P	TBD
XUMFEIMF	TBD
XUMFENV	TBD
XUMFH	TBD
XUMFH4	TBD
XUMFHM	TBD
XUMFHPQ	TBD
XUMFHPR	TBD
XUMFI	TBD
XUMFI0	TBD
XUMFMD5	TBD
XUMFMFE	TBD
XUMFMFI	TBD
XUMFP	TBD
XUMFP4	TBD
XUMFP4C	TBD
XUMFP4Z	TBD
XUMFP512	TBD
XUMFP513	TBD
XUMFPFT	TBD
XUMFPMFS	TBD
XUMFPOST	TBD
XUMFPZL7	TBD
XUMFQR	TBD
XUMFR	TBD

Routine	Description
XUMFX	TBD
XUMFXACK	TBD
XUMFXH	TBD
XUMFXHL7	TBD
XUMFXI	TBD
XUMFXP	TBD
XUMFXP1	TBD
XUMFXP2	TBD
XUMFXR	TBD
XUMPI	TBD
XUMVIENU	Entry point and processing routine for the XUS MVI ENRICH NEW PERSON RPC for adding and updating a record in the NEW PERSON (#200) file.
XUMVINPA	Processing routine for adding a new record in the NEW PERSON (#200) file, which is associated with the XUS MVI ENRICH NEW PERSON RPC.
XUOAAHL7	TBD
XUOAAUTL	TBD
XUP	Set up environment for developers.
XUP468	TBD
XUP522	TBD
XUP569	TBD
XUPARAM	Look up parameter substitute, KSP values.
XUPCF	TBD
XUPCH117	TBD
XUPCSRVR	TBD
XUPOS259	TBD
XUPRE247	TBD
XUPROD	TBD
XUPS	TBD
XUPS309P	TBD
XUPSB01	TBD
XUPSCLR	TBD

Routine	Description
XUPSGS	TBD
XUPSHL7B	TBD
XUPSNAME	TBD
XUPSNM1	TBD
XUPSORG	TBD
XUPSPAID	TBD
XUPSPD1	TBD
XUPSPRA	TBD
XUPSQRY	TBD
XUPSSTF	TBD
XUPSUTL1	TBD
XUPSUTQ	TBD
XURTL	TBD
XURTL1	TBD
XURTL2	TBD
XURTL3	TBD
XURTLC	TBD
XURTLK	TBD
XUS	Signon.
XUS1	Signon.
XUS11	Read and store DA from terminals.
XUS1A	Signon: Overflow from XUS1 .
XUS1B	TBD
XUS2	Check or return user attributes.
XUS3	Signon.
XUS3A	Change UCIs.
XUS4	Access code generator.
XUS5	Resume logic for continue.
XUS6	Clear users at startup.
XUS9	Find a user.
XUS91	Report of users signed on.

Routine	Description
XUSAML	Kernel SAML Token Implementation.
XUSAP	TBD
XUSAP1	TBD
XUSBSE1	TBD
XUSBSE2	TBD
XUSC1	TBD
XUSC1C	TBD
XUSC1S	TBD
XUSC1S1	TBD
XUSCLEAN	Cleanup before exit.
XUSCNT	TBD
XUSECAD	TBD
XUSECBUL	TBD
XUSER	A common set of user functions.
XUSER1	TBD
XUSER2	TBD
XUSERBLK	Bulk user (NEW PERSON) computer access.
XUSERNEW	Add a new user.
XUSERP	TBD
XUSESIG	Enter or change electronic signature code.
XUSESIG1	TBD
XUSESIG2	<p>Determines whether the XU SIG BLOCK DISABLE parameter is set to a value of ON (1), and whether the user is assigned the XUSIG security key. If the parameter is set to ON, users without the security key <i>cannot</i> edit the following Electronic Signature fields in the NEW PERSON (#200) file:</p> <ul style="list-style-type: none"> • DEGREE (#10.6) • SIGNATURE BLOCK PRINTED NAME (#20.2) • SIGNATURE BLOCK TITLE (#20.3)
XUSESIG3	Edits entries for the DEGREE (#10.6) field in the NEW PERSON (#200) file.
XUSFACHK	TBD
XUSG	Signon from GUI screen.
XUSG1	Signon from GUI screen (continued).

Routine	Description
XUSHSH	Password encryption.
XUSHSHP	Hashing routine for sig block in NEW PERSON (#200) file.
XUSKAAJ	TBD
XUSKAAJ1	TBD
XUSMGR	Security utilities.
XUSNPI	TBD
XUSNPI1	TBD
XUSNPIDA	TBD
XUSNPIE1	TBD
XUSNPIE2	TBD
XUSNPIE3	TBD
XUSNPIED	TBD
XUSNPIUT	TBD
XUSNPIX1	TBD
XUSNPIX2	TBD
XUSNPIX3	TBD
XUSNPIX4	TBD
XUSNPIX5	TBD
XUSNPIXI	TBD
XUSNPIXU	TBD
XUSP557	TBD
XUSPURGE	Purge routine for XUSEC .
XUSRA	Remote access control.
XUSRB	TBD
XUSRB1	TBD
XUSRB2	TBD
XUSRB4	TBD
XUSRB5	TBD
XUSSPKI	TBD
XUST	TBD
XUST01	TBD

Routine	Description
XUST02	TBD
XUST04	TBD
XUST05	TBD
XUST06	TBD
XUST08	TBD
XUST09	TBD
XUST12	TBD
XUST13	TBD
XUST15	TBD
XUST17	TBD
XUST18	TBD
XUST19	TBD
XUST20	TBD
XUST21	TBD
XUST22	TBD
XUST24	TBD
XUST25	TBD
XUST26	TBD
XUST27	TBD
XUST28	TBD
XUST29	TBD
XUST35	TBD
XUSTAT	User/CPU stats from signon log: Part 1 .
XUSTAT1	User/CPU stats from signon log: Part 2 .
XUSTAT2	User/CPU stats from signon log: Part 3 .
XUSTAX	TBD
XUSTERM	Deactivate user.
XUSTERM1	Deactivate user (continued).
XUSTERM2	User terminate, package file run
XUSTZ	Security Twilight Zone.
XUSTZIP	TBD

Routine	Description
XUTMD	TaskMan: Option: XUTMDEL : Part 1: Single.
XUTMD1	TaskMan: Option: XUTMDEL : Part 2: Bulk Delete.
XUTMDEVQ	Device call and queue in one place.
XUTMDQ	TaskMan: Option: XUTMDQ : Part 1: Single.
XUTMDQ1	TaskMan: Option: XUTMDQ : Part 2: Bulk DQ .
XUTMG145	TaskMan: Globals: Code for VOLUME SET (#14.5) file.
XUTMG146	TaskMan: Globals: Cross-references for UCI ASSOCIATION (#14.6) file.
XUTMG14P	TaskMan: Globals: Cross-references for VOLUME SET (#14.5) and MUMPS OPERATING SYSTEM (#.7) files.
XUTMG19	TaskMan: Code for OPTION SCHEDULING (#19.2) file.
XUTMG43	TaskMan: Globals: Cross-references for KERNEL SYSTEM PARAMETERS (#8989.3) file.
XUTMHR	TBD
XUTMK	TaskMan: Option: ZTMCLEAN/ZTMQCLEAN .
XUTMKA	TBD
XUTMKE	TaskMan: Option: XUTME LOG* .
XUTMKE1	TaskMan: Option: XUTME SCREEN* : Part 1.
XUTMKE2	TaskMan: Option: ZTME SCREEN* : Part 2.
XUTMONH	TaskMan: Option: XUTMON : Part 3: Help Driver.
XUTMONH1	TaskMan: Option: XUTMON : Part 4: Help Modules.
XUTMONH2	TaskMan: Option: XUTMON : Part 5: Help Modules.
XUTMOPT	One-time queue and Schedule option code.
XUTMPCH	TBD
XUTMQ	TaskMan: Option: XUTMINQ : Show task lists.
XUTMQ0	TaskMan: Option: ZTMINQ : Part 2: Modules.
XUTMQ1	TaskMan: Option: ZTMINQ : Part 3: Modules.
XUTMQ2	TaskMan: Option: XUTMINQ : Part 4: Modules.
XUTMQ3	TaskMan: Option: ZTMINQ : Part 5: Modules.
XUTMQH	TBD
XUTMR	TBD
XUTMR1	TBD

Routine	Description
XUTMRJD	TBD
XUTMRJD1	TBD
XUTMRP	TBD
XUTMRP1	TBD
XUTMSYNC	TBD
XUTMT	TBD
XUTMTA	TBD
XUTMTAL	TBD
XUTMTD	TBD
XUTMTDL	TBD
XUTMTED	TBD
XUTMTEIO	TBD
XUTMTEP	TBD
XUTMTES	TBD
XUTMTL	TBD
XUTMTLD	TBD
XUTMTLU	TBD
XUTMTP	TBD
XUTMTP0	TBD
XUTMTP1	TBD
XUTMTPD	TBD
XUTMTPU	TBD
XUTMTR1	TBD
XUTMTR2	TBD
XUTMTR3	TBD
XUTMTR4	TBD
XUTMTS	TBD
XUTMTU	TBD
XUTMTUL	TBD
XUTMTZ	TBD
XUTMTZ1	TBD

Routine	Description
XUTMTZ2	TBD
XUTMTZ3	TBD
XUTMUSE	TaskMan: Option: XUTMUSER : Part 1: Driver.
XUTMUSE1	TaskMan: Option: XUTMUSER : Part 2: Print.
XUTMUSE2	TaskMan: Option: XUTMUSER : Part 3: Edit.
XUTMUSE3	TaskMan: Option: XUTMUSER : Part 3: Help.
XUTMUTL	TaskMan: Utility.
XUVERIFY	Checks a user's Access and Verify codes.
XUWORKDY	Workdays: Monday – Friday.
XUXCTY	TBD
XUXPRT	TBD
XUYDEV	TBD
ZISEDIT	Device edit.
ZISPL	Utilities for spooling.
ZISPL1	Utilities for spooling (continued).
ZISPL2	Spooler cleanup.
ZISX	Executes nodes in ^%ZIS global.
ZTMB	TaskMan: Manager: Boot/ Option: ZTMRESTART .
ZTMCHK	TaskMan: Option: ZTMCHECK : Part 1.
ZTMCHK1	TaskMan: Option: ZTMCHECK : Part 2.
ZTMKU	TaskMan: Option: ZTMWAIT/RUN/STOP .
ZTMON	TaskMan: Option: ZTMON : Part 1 (Main Loop).
ZTMON1	TaskMan: Option: ZTMON : Part 2 (Main Loop).
ZUA	Audit access.
ZUMSM	MSM-NT and MSM-UNIX: Tie all user terminals to this routine.
ZUVXD	DSM: Tie all terminals to this routine.

Table 10: Routines—Kernel and Toolkit Production Account Routines Released with Broker Security Enhancement (BSE)

Routine	Description
XUSBSE1	This Kernel routine contains various functions and procedures used by Broker Security Enhancement (BSE). It was released with the BSE (i.e., Kernel Patch XU*1.1*404).
XUSBSE2	This Kernel routine contains various functions and procedures used by BSE. It was released with BSE (i.e., Kernel Patch XU*1.1*404).
XUSBSEUT	This Kernel routine is the BSE unit test routine. It was released with BSE (i.e., Kernel Patch XU*1.1*404).
XUSRB	This Kernel routine contains various functions and procedures used by BSE. It was modified and released with BSE (i.e., Kernel Patch XU*1.1*404).

3.3 Additional Routines Installed by Virgin Install

[Table 11](#) lists the additional **XV** routines that are brought in by a virgin installation for the production account:

Table 11: Routines—Virgin Installs

Routine	Description
XVIRENV	Environment check for virgin Installations.
XVIRPOST	Post Init for virgin installations.

3.4 Mapping Routines

Routine mapping is at the discretion of the systems manager. The **RTHIST** routines provide a method for each site to determine the extent to which certain routines are used.



REF: For a list of *recommended* routine mapping, see the “Installing Kernel 8.0 in a 7.1 Environment” section in the *Kernel Installation Guide*. Under the “Installation Instructions” section, see the “Implement Routine Mapping (DSM for OpenVMS only)” section. Recommended routines to map are listed there.

4 Files

This chapter contains information on all files and globals distributed with Kernel and Kernel Toolkit. The file information includes: file numbers, file names, global location, and brief file descriptions.



REF: [Table 14](#) lists other files that are brought in during a virgin installation.

File number ranges for Kernel and Kernel Toolkit are as follows:

- 3.05 – 3.084
- 3.1 - 3.54
- 4.00 - 4.11
- 5.00 - 5.00
- 7 - 7.1
- 9.2 - 9.8
- 10
- 11
- 13
- 14.4 - 14.8
- 15 – 15.4
- 19.00 – 19.2
- 40.5
- 49
- 101.00
- 200 – 201
- 8932.10 - 8935.91
- 8980 - 8980.22
- 8984.1 – 8984.4
- 8989.2 – 8989.3
- 8991 – 8992.1



REF: For a detailed list of the files exported with Kernel and Kernel Toolkit, see [Table 15](#).

4.1 Globals

4.1.1 Globals—VA-FileMan-compatible Storage

These Kernel/Kernel Toolkit globals are compatible with VA FileMan files. The Kernel/Kernel Toolkit files are listed in order of the global in which they are stored:



NOTE: In [Table 12](#), those globals specific to Kernel Toolkit are notated under the “Global Name” column and those files specific to Kernel Toolkit within other globals are noted under the “File Number” column.

Table 12: Globals—VA FileMan-Compatible Storage

Global Name	File Number	File Name
^DIC	3.1	TITLE
	4	INSTITUTION
	4.1	FACILITY TYPE
	4.11	AGENCY
	9.2	HELP FRAME
	9.4	PACKAGE
	9.8	ROUTINE
	19	OPTION
	19.1	SECURITY KEY
	19.2	OPTION SCHEDULING
	49	SERVICE/SECTION
^DIZ (Toolkit)	8980	KERMIT HOLDING
^HOLIDAY	40.5	HOLIDAY
^XLM	8993	XULM LOCK DICTIONARY
	8993.1	XULM LOCK MANAGER PARAMETERS
	8993.2	XULM LOCK MANAGER LOG
^XPD	9.6	BUILD
	9.7	INSTALL
^XT (Toolkit)	8984.1	LOCAL KEYWORD
	8984.2	LOCAL SHORTCUT
	8984.3	LOCAL SYNONYM
	8984.4	LOCAL LOOKUP

Global Name	File Number	File Name
^XTV	8989.2	KERNEL PARAMETERS
	8989.3	KERNEL SYSTEM PARAMETERS
	8991 (Toolkit)	XTV ROUTINE CHANGES
	8991.19 (Toolkit)	XTV VERIFICATION PACKAGE
	8991.2 (Toolkit)	XTV GLOBAL CHANGES
	8991.5	XQAB ERRORS LOGGED
	8992	ALERT
	8992.1	ALERT TRACKING
	8992.2	ALERT RECIPIENT TYPE
	8992.3	ALERT CRITICAL TEXT
	8995.9	BINARY OBJECT
^XUSEC	3.081	SIGN-ON LOG
	19.081	AUDIT LOG FOR OPTIONS
^VA	15 (Toolkit)	DUPLICATE RECORD
	15.1 (Toolkit)	DUPLICATE RESOLUTION
	200	NEW PERSON
^%ZIS	3.2	TERMINAL TYPE
	3.22	DA RETURN CODES
	3.23	LINE/PORT ADDRESS
	3.5	DEVICE
	14.5	VOLUME SET
	14.6	UCI ASSOCIATION
	14.7	TASKMAN SITE PARAMETERS
	14.71	TASKMAN MONITOR
	14.72	TASKMAN SNAPSHOT
^%ZISL	3.54	RESOURCE
	14.8	TASK SYNC FLAG

Global Name	File Number	File Name
^%ZTER	3.075	ERROR LOG
	3.076	ERROR MESSAGES
^%ZTSK	14.4	TASKS
^%ZUA	3.05	FAILED ACCESS ATTEMPTS LOG
	3.07	PROGRAMMER MODE LOG



REF: There are other VA FileMan files stored in the ^DIC global. You should review the *VA FileMan Technical Manual* for information on those files.

4.1.2 Globals—Non-VA-FileMan-Compatible Storage

There are several additional Kernel/Kernel Toolkit globals that are *not* compatible with VA FileMan files. These include the following:

Table 13: Globals—Not VA FileMan-Compatible Storage

Global	Description
^XTMP	Storage location for inter-process temporary data
^XUTL	Compiled menu system
^%ZOSF	Operating system-specific information
^%ZTSCH	TaskMan schedule of tasks

In addition, many Kernel and Kernel Toolkit routines make use of the **^TMP** global for temporary storage space.

4.1.3 Globals—Storage Used for Additional Files during Virgin Install

The following additional global storage is used by files brought in by Kernel 8.0 Virgin Install:

Table 14: Globals—Storage Used for Additional Files during Virgin Installation

Global Name	File Number	File Name
^DIC	4.2	(Exported with MailMan) DOMAIN
	5	STATE
	7	PROVIDER CLASS
	7.1	SPECIALITY
	10	RACE
	11	MARITAL STATUS
	13	RELIGION
^XMB	3.8	(Exported with MailMan) MAIL GROUP

4.2 Files

4.2.1 Kernel and Kernel Toolkit Export Files

[Table 15](#) lists the files exported with Kernel and Kernel Toolkit:



NOTE: In [Table 15](#), those files exported with Kernel Toolkit are noted under the “File #” column. Those files that are *not* noted are exported with Kernel.

Table 15: Files—Distributed with Kernel and Kernel Toolkit

File #	File Name	Global Location	Description	Data w/ File	Data Setting
3.05	FAILED ACCESS ATTEMPTS LOG	^%ZUA(3.05,	Once the maximum signon attempts limit has been exceeded, an entry is made in this file to record all available information about the failed signon attempt. Information includes the date/time, CPU, UCI, device, and, if known, user. The text entered for each attempt is recorded when it does <i>not</i> match existing codes. This file is <i>not</i> cross-referenced.	NO	N/A
3.07	PROGRAMMER MODE LOG	^%ZUA(3.07,	Entrance into programmer mode via the menu system is automatically logged in this file. It points to the NEW PERSON (#200) file to identify the user. It is <i>not</i> cross-referenced.	NO	N/A
3.075	ERROR LOG	^%ZTER(1,	This file is used to maintain a log of the errors occurring during use of the system. Errors are entered into this log by the Error Trap established for the user by ZU or application programs calling %ZTER when an error occurs. The entries are all entered by the routine %ZTER. There is no need for a user to make a manual entry into this file.	NO	N/A
3.076	ERROR	^%ZTER(2,	This file contains a number	YES	Merge




File #	File Name	Global Location	Description	Data w/ File	Data Setting
	MESSAGES		of the abbreviations used to indicate the type of error encountered. The most important ones are those which are indicated as fatal errors warranting termination of the job after logging of the error.		
3.077	ERROR TRAP SUMMARY	^%ZTER(3.077,	This file captures the Vista errors at each site. These findings can be used locally and pushed to a central repository to help prioritize the efforts to seal up the hot spots in the applications.	NO	N/A
3.081	SIGN-ON LOG	^XUSEC(0,	This file records signon/signoff times by user, device, job, UCI, and CPU. It is cross-referenced by user, device, and signoff time.	NO	N/A
3.083	LOCKED IP or DEVICE	^XUSEC(3,	This file holds the IP address or domain name of a system that has failed to successfully signon within the limits imposed. Once the lock out time has passed, the record is removed, so it would be normal for this file to have no records most of the time.	NO	N/A
3.084	FAILED SIGNON ATTEMPTS	^XUSEC(4,	This file holds the count of signon attempts from an IP address or domain. This is to prevent a user from disconnecting after each try. Once a signon is successful, the record is removed, so it would be normal for this file to have no records most of the time.	NO	N/A


File #	File Name	Global Location	Description	Data w/ File	Data Setting
3.1	TITLE	^DIC(3.1,	This file can be used to indicate a user's title. It is pointed to by the NEW PERSON (#200) file. It is only cross-referenced by name.	NO	N/A
3.2	TERMINAL TYPE	^%ZIS(2,	This file is pointed to by the Subtype field of the DEVICE (#3.5) file. This file can hold vendor-specific code to characterize a terminal type. For example, escape sequences can be entered in the Open and Close Execute fields to set pitch or font. This file is also pointed to by the NEW PERSON (#200) file to record signon subtype characteristics by user. Data is distributed with this file to support screen-handling capabilities. This data overwrites existing data for those terminal types of the same name. However, terminal types for printers are <i>not</i> affected, since the data that is distributed is for a subset of known CRTs. The Kernel Virgin Install distribution will seed a more complete set of terminal types including those for printers as well as CRTs. However, the Kernel Virgin Install should only be performed once and only on a system where there is no pre-existing Kernel. The data in this file is cross-referenced by name and synonym.	YES	Over-write



File #	File Name	Global Location	Description	Data w/ File	Data Setting
3.22	DA RETURN CODES	^%ZIS(22,	This file holds the translation between the ANSI DA return code and the name in the TERMINAL TYPE (#3.2) file that should be associated with the return code.	YES	Merge
3.23	LINE/PORT ADDRESS	^%ZIS(3.23,	This file is used to associate device(s)/subtype(s) with line/port addresses. The line/port address should be entered when editing the name field of this file. This address can be obtained by using the OS-specific function \$ZIO on VAX DSM. To establish an association with a Device and Terminal Type, the DEVICE and SUBTYPE fields of this file <i>must</i> store the appropriate values that correspond to entries in the DEVICE (#3.5) and TERMINAL TYPE (#3.2) files. This file is cross-referenced by name and device.	NO	N/A
3.5	DEVICE	^%ZIS(1,	This file defines all input/output devices that can be accessed from this CPU (definitions are <i>not</i> account-specific). Each device is identified with a unique name. Each is associated with a \$I value which may correspond with a hardware port or, on layered systems, a host file or directory. If there are several devices for the same volume set and \$I , one may be given signon system status. This file is cross-referenced by name,	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			\$I , volume set (CPU), and signon/system device. It is also cross-referenced by local synonym, mnemonic, subtype, and form currently mounted.		
3.51	SPOOL DOCUMENT	^XMB(3.51,	This file stores the name of spool documents created by the Kernel spooler (i.e., %ZIS4) for all operating systems. It does <i>not</i> hold the text of the documents themselves. That text is first spooled to spool space, then moved into the ^XMB global as a mail message. This file does, however, provide the mechanism for securing spool space for and during spooling. It is cross-referenced by NAME, USER, OTHER AUTHORIZED USERS, SPOOL DATA, and SPOOL NUMBER.	NO	N/A
3.519	SPOOL DATA	^XMBS(3.519,	This is the holding file for spool documents until moved to a mail message or deleted.	NO	N/A
3.54	RESOURCE	^%ZISL(3.54	This file is for internal use by TaskMan and the Device Handler in the sequential processing of tasks. Jobs that have been sent to a resource-type device are monitored according to fields in this file. To accommodate the Device Handler's need to write to but rarely read from this file, the translated ^%ZISL global is used. This file is cross-referenced by name and job number.	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
3.6	BULLETIN	^XMB(3.6,	<p>Bulletins are “Super” messages. Each Bulletin has a text and a subject just like a normal message. But, embedded within either the subject or the text can be variable fields that can be filled in with parameters. There is also a standard set of recipients in the form of a Mail Group that is associated with the bulletin.</p> <p>Bulletins are processed by MailMan either because of a special cross reference type of VA FileMan, or because of a direct call in a routine. The interface for the direct call is described in the documentation on programmer entry points. VA FileMan sets up code that issues a bulletin automatically when the special cross-reference type is created. In either case, the parameters that go into the text and/or the subject make each bulletin unique.</p>	NO	N/A
4	INSTITUTION	^DIC(4,	This file contains a listing of VA institutions. It is cross-referenced by name and station number. The Number field is no longer meaningful (it previously referenced the station number).	NO	N/A
4.001	MASTER FILE PARAMETER S	^DIC(4.001,	<p>The file holds parameters related to the Master File Server (MFS).</p> <p>The parameters map HL7 segment data to standard FileMan data files. Local</p>	YES	Over-write

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			<p>modifications to this file will seriously disrupt standard file updating and have negative consequences to existing VistA applications.</p>  <p>CAUTION: Do <i>not</i> edit this file!</p>		
4.005	MD5 Signature	^DIC(4.005,	<p>This file stores parameters related to the MD5 signature of the Master File Server (MFS).</p> <p>For each domain (Allergy, Vitals), the parameters define the file's fields to be included in MD5 hash procedure. Local modifications to this file will seriously disrupt standard file updating and have negative consequences to existing VistA applications.</p>  <p>CAUTION: Do <i>not</i> edit this file!</p>	YES	
4.009	STANDARD TERMINOLOGY VERSION F	^DIC(4.009,	<p>This file stores the last Version of Standard Terminology update.</p> <p>The file entry is set within MFS. Local modifications to this file will seriously disrupt standard file updating and have negative consequences to existing VistA applications.</p>  <p>CAUTION: Do <i>not</i> edit this file!</p>	YES	
4.05	INSTITUTION ASSOCIATION TYPES	^DIC(4.05,	<p>This file is used to link entries in the INSTITUTION (#4) file into associations that are meaningful.</p>	YES	Merge

File #	File Name	Global Location	Description	Data w/ File	Data Setting
4.1	FACILITY TYPE	^DIC(4.1,	This file is pointed to by the Institution 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 distributed with data, and the new data should overwrite the old. It is cross-referenced by name and full name.	YES	Merge
4.11	AGENCY	^DIC(4.11,	This file replaces the Set of Codes field AGENCY that had been used in the INSTITUTION (#4) file.	YES	Over-write
5	STATE	^DIC(5,	<p>This file contains the name of the state (or outlying area) as issued by the Department of Veterans Affairs (VA) and issued in M-1, Part I, Appendix B.</p>  <p>CAUTION: These entries should remain as distributed and should not be edited or updated unless done via a software upgrade or under direction of VA Central Office.</p>	YES	
5.12	POSTAL CODE	^XIP(5.12	This file stores all known Postal Codes as well as other associated information related to the Postal Code. Although the original data in this file only contains US Postal Codes, the file has been designed to allow non-US Postal Codes to be added in the future if desired.	YES	Replace

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			 CAUTION: Do <i>not</i> point directly to this file until you get an Integration Control Registration (ICR).		
5.13	COUNTY CODE	^XIP(5.13,	<p>This file contains all known US County Federal Information Processing Standards (FIPS) codes according to the United States Geological Survey (USGS), Department of Housing and Urban Development (HUD), and the United States Postal Service (USPS).</p>  CAUTION: Do <i>not</i> point directly to this file until you get an ICR. The <i>only</i> file that is allowed to point directly to this file is the POSTAL CODE (#5.12) file.	YES	Replace
7	PROVIDER CLASS	^DIC(7,	This file stores the provider classes. It is pointed to by the PROVIDER CLASS (#53.5) field of the NEW PERSON (#200) file.		
7.1	SPECIALITY	^DIC(7.1,	This file stores the specialties. It is pointed to by the SPECIALITY (#442121.04) sub-field of the of the CONSULTANT'S LICENSES (#442121) file.		
9.2	HELP FRAME	^DIC(9.2,	This file contains the text of help frames created via the Help Processor (XQH). Help frames can be	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			associated with options or with data dictionary fields to provide online instruction. The file is cross-referenced by name, header, date entered, author, and editor.		
9.4	PACKAGE	^DIC(9.4,	The top level of a PACKAGE (#9.4) file entry for software now stores static software information. The PACKAGE (#9.4) file stores mainly static software information that is <i>not</i> version-specific, as well as the patch history of the software. KIDS updates the VERSION (Multiple) field. Patch installations update the PATCH APPLICATION HISTORY (Multiple) field, which is within the VERSION (Multiple) field. Most other fields have been designated for removal at the top level of the PACKAGE (#9.4) file.	NO	N/A
9.6	BUILD	^XPD(9.6,	This file identifies the elements of a software application that will be transported by the Kernel Installation & Distribution System (KIDS). All components of the software (i.e., templates, options, Security Keys, etc.) <i>must</i> be listed in this file.	NO	N/A
9.7	INSTALL	^XPD(9.7,	This file contains the installation information for a site from the Kernel Installation & Distribution System (KIDS). This file should <i>not</i> be edited. All information is updated	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			when new software is installed at a site.		
9.8	ROUTINE	^DIC(9.8,	This file is used to document system routines. Parameters and entry points can be described. When running %INDEX, some fields will be given values as the %INDEX verification tool locates variables, globals, and routine references. When using the %Z editor, the EDIT HISTORY (Multiple) field will be filled in with date, device, user, and UCI. The %ZOSF("TEST") node can be executed, checking \$T, to determine whether a routine listed in this file exists in the current account. This file is cross-referenced by name.	NO	N/A
10	RACE	^DIC(10,	This file contains the list of valid races. The allowable entries are maintained by VA Central Office and, as such, alteration and/or addition of entries is <i>not</i> allowed.	YES	
11	MARITAL STATUS	^DIC(11,	This file currently consists of six entries that are distributed by the MAS development team. Alteration of any of the six entries or addition of entries to this file that are <i>not</i> distributed by the MAS developers may have a negative impact on the performance of the MAS module as well as other modules.	YES	
13	RELIGION	^DIC(13,	This file currently contains 84 entries. These entries are determined by VACO	YES	


File #	File Name	Global Location	Description	Data w/ File	Data Setting
			MAS. This file should <i>not</i> be added to nor should entries in it be altered or deleted by the facility. Entry, edit, or deletion of these entries could have severe negative effects on the performance of the MAS module.		
14.4	TASKS	^%ZTSK(This file describes TaskMan's main file of jobs to start. Because TaskMan works on this file from many UCIs, it does <i>not</i> use VA FileMan to manipulate it. There are no cross-references on this file and there are no fields that can be edited; use TaskMan options for that. The file can be searched, sorted and printed. The third piece of the zero node is only updated when the Queueable Task Log Cleanup [XUTM QCLEAN] option runs. Some applications still do their own setting into this global and wipe out the zero node. The storage of the symbol table is <i>not</i> in a VA FileMan-compatible format.	NO	N/A
14.5	VOLUME SET	^%ZIS(14.5	This file describes the volume sets available in the current multiprocessor network. The information pertaining to each volume set is used primarily by Kernel, especially TaskMan. The UCIs that make up each volume set can be determined by using the cross-reference in the UCI Association	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			Table file.		
14.6	UCI ASSOCIATION	^%ZIS(14.6,	This file contains information that indicates which UCIs on different volume sets are equivalent. This information allows the running of tasks that need a device only available on a different volume set, even if the UCI on the other volume set has another name.	NO	N/A
14.7	TASKMAN SITE PARAMETERS	^%ZIS(14.7,	This file should be used by the system manager to tune TaskMan to the site's specific needs. Entries are identified by the CPU and volume set, so that parameters can be set differently for different nodes that share a single volume set, etc. Changes to any of the fields automatically causes all accessible Task Managers on the system to update their local copies of the parameters.	NO	N/A
14.72	TASKMAN SNAPSHOT	^%ZIS(14.72,	This file holds TaskMan Snapshot data. This is a snapshot of the counts in the TaskMan ^%ZTSCH global. There should be no user entry of this data. It is just for reporting.	NO	N/A
14.8	TASK SYNC FLAG	^%ZISL(14.8,	This file holds the task synchronization flags that control if a task can run or <i>must</i> wait.	NO	N/A
15 (Toolkit)	DUPLICATE RECORD	^VA(15,	This file is designed to analyze and resolve duplicate record problems from various data files (e.g., PATIENT [#2] file).	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			The “from” and “to” records are identified, the match status is reported, and the user initiating the process is noted. This file is cross-referenced by Status and From-record.		
15.1 (Toolkit)	DUPLICATE RESOLUTION	^VA(15.1,	This file facilitates duplicate checking and merging of files that have entries in the DUPLICATE RECORD (#15) file. It provides the overall control information that software developers need to identify duplicates within their files and then to merge the duplicate entries.	NO	N/A
15.2 (Toolkit)	XDR MERGE PROCESS	^VA(15.2,	When a merge process is set up, all its information is stored in this file. Once a merge process has completed, that entry can be purged using the Purge Merge Process File [XDR PURGE2] option in the Managers menu.		
15.3 (Toolkit)	XDR REPOINTED ENTRY	^VA(15.3,	This file is used to record the entry number of the FROM record that is merged into the TO record. This can be used for VA FileMan to determine which entries were merged, so the IEN of the FROM record will <i>not</i> be reused.		
15.4 (Toolkit)	MERGE IMAGES	^XDRM(This file stores an image of the pairs of entries in files that were merged immediately prior to the actual merge. In addition, there is also a record of the locations of pointer values that were changed during the merge process.		

File #	File Name	Global Location	Description	Data w/ File	Data Setting
19	OPTION	^DIC(19,	Information in this file is used to drive the menu system. Options are created, associated with others on menus, locked, set out-of-order, assigned prohibited times or devices, or given entry/exit actions. The Edit Options [XUEDITOPT] option of the Menu Management [XUMAINT] menu should be used (instead of VA FileMan), so that the global root (DIC) and other such fields are given the correct values. Options can be tailored by setting VA FileMan variables via this file. The Order Enter/Results Reporting (OE/RR) software is accessed by using the appropriate option type. It is cross-referenced by name, menu text, uppercase menu text, type, item, synonym, help frame, out-of-order message, lock, prohibited times, restricted devices, and priority.	NO	N/A
19.081	AUDIT LOG FOR OPTIONS	^XUSEC(19,	The KERNEL SYSTEM PARAMETERS (#8989.3) file establishes when and how a log of option usage will be recorded in this file. For the indicated time period, all specified options, namespaces, and users will be audited. It is recommended that when audits are run, the number of audited entities be minimized so that disk space is <i>not</i> inadvertently wasted. This file is cross-	NO	N/A


File #	File Name	Global Location	Description	Data w/ File	Data Setting
			referenced by option.		
19.1	SECURITY KEY	^DIC(19.1,	This file holds the names of security keys that are used to lock options. To lock an option, the name of the key is entered in the Lock field of the OPTION (#19) file. To permit a user to unlock the option, the user's name is entered in the Holder field of this file. It is cross-referenced by name and holder.	NO	N/A
19.2	OPTION SCHEDULING	^DIC(19.2,	This file holds records that relate to the scheduling of options to run on a schedule or occasionally on a one-time basis. There is one record for each time that an option is scheduled. This allows one option to be scheduled to run on more than one CPU or at more than one time without having to duplicate the option in the OPTION (#19) file.	NO	N/A
19.8	MENUMAN QUICK HELP	^DIC(19.8,	This file holds help text to be displayed in the ScreenMan edit form for the menu file. It only changes when there are changes to the Menu system.	YES	Over-write
20	NAME COMPONENTS	^VA(20,	This file, introduced with Name Standardization (Patch XU*8.0*134), stores the component parts of a person's name in the following fields: <ul style="list-style-type: none"> • FAMILY (LAST) NAME (#1) • GIVEN (FIRST) NAME (#2) • MIDDLE NAME (#3) 	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			<ul style="list-style-type: none"> • PREFIX (#4) • SUFFIX (#5) • DEGREE (#6) <p>The “source name” that has these components is identified by the following three fields:</p> <ul style="list-style-type: none"> • FILE (#.01) • FIELD (#.02) • IENS (#.03) <p>The “ANAME” cross-reference on the FAMILY (LAST) NAME, GIVEN (FIRST) NAME, MIDDLE NAME, and SUFFIX fields keep each component in synchronization with the corresponding source name. In the case of Patch XU*8.0*134, the source name is the NAME (#.01) field of the NEW PERSON (#200) file.</p> <p>The DEGREE and PREFIX fields are <i>not</i> considered part of a standard name but can be used to build formatted names for display.</p>		
40.5	HOLIDAY	^HOLIDAY(This file is used to record institutional holidays. It is referenced by the XUWORKDY routine and is <i>not</i> distributed with data. It is cross-referenced by date.	NO	N/A
46.11	RAI MDS MONITOR	^DGRU(46.11,	<p>This file stores the modified and original contents of the #.01 field of the Master file entry and file reference information.</p> <p> NOTE: RAI/MDS = Resident Assessment</p>	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			Instrument/Minimum Data Set.		
49	SERVICE/SECTION	^DIC(49,	This file is a list of the services and sections within the services. Some of the entries may be "MIS COSTING SECTIONS" for use with the cost accounting part of the Management Information System software. A section is an MIS section if there is a code entered in the field called MIS COSTING CODE. In the cost accounting system all medical center costs are tied to a particular section. When MIS sections change, do <i>not</i> delete the old section. Instead, change the fields under the multiple field called "DATE CLOSED" to identify which sections are no longer in use.	NO	N/A
101	PROTOCOL	^ORD(101,	This file contains the orderables and methods for accomplishing orders (protocols) within Order Entry/Results Reporting (OE/RR).	NO	N/A
200	NEW PERSON	^VA(200,	This file contains data on employees, users, practitioners, etc., that was previously stored in the User, Person, Provider, and other files. VistA software developers <i>must</i> check with the Kernel developers to see that a given number/namespace is available for use.	NO	N/A
201	USER CLASS	^VA(201,	This file is used for identifying the kinds of all other entries in the NEW	YES	Over-write

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			PERSON (#200) file that are <i>not</i> providers identified with PERSON CLASS.		
8932.1	PERSON CLASS	^USC(8932.1,	<p>This file stores the Centers for Medicare & Medicaid Services (CMS) Health Care Financing Administration (HCFA) provider type data.</p> <p>In 2001, ANSI ASC X12N asked the National Uniform Claim Committee (NUCC) to become the official maintainer of the Health Care Provider Taxonomy List (provider type).</p> <p>PERSON CLASS is to be used for identifying provider types for roll-ups.</p> <p>Patches need to review the technical description in the INDIVIDUAL/NON (#90002) field. This field is in the Indian Health Service (IHS) numberspace and is for their use pending development and deployment of a file to support a Non-Individual taxonomy.</p> <p>PERSON CLASS is intended for Individuals. As of August 30, 2002, IHS has added entries for non-Individuals to the file.</p> <p>Patches should take that into account when planning how to load new data.</p> <p>Per VHA Directive 2005-044, this file has been "locked down" by Data Standardization (DS). The file definition (i.e., data dictionary) <i>shall not</i> be modified. All additions,</p>	YES	Over-write


File #	File Name	Global Location	Description	Data w/ File	Data Setting
			changes and deletions to entries in the file <i>shall</i> be done by Enterprise Reference Terminology (ERT) using the Master File Server (MFS), provided by Common Services (CS).		
8932.2	PROGRAM OF STUDY	^USC(8932.2,	This file stores the names and information of programs of study.	YES	Replace
8980 (Toolkit)	KERMIT HOLDING	^DIZ(8980,	This file provides storage for data being transferred by the KERMIT protocol. By default, the data can only be accessed by the user that created it. The Kermit Menu (XT-KERMIT) can be used to send and receive data via this file. The menu also allows the creator of the data to permit access by others. This file is cross-referenced by Name, Creator, and Access Allowed to a user.	NO	N/A
8980.2	PKI Digital Signatures	^XUSSPKI(8980.2,	This file stores the Public Key Infrastructure (PKI) digital signatures.	NO	N/A
8980.22	PKI CRL URLS	^XUSSPKI(8980.22,	This file stores the Universal Resource Locator's (URL) for the Certificate Revocation List's (CRL) from the Certificate Distribution Points (CDP) in the users Public Key Infrastructure (PKI) Certificate. These URL's are sent up to a Windows server to keep a database of Certificate Revocation's up to date.	NO	N/A
8984.1 (Toolkit)	LOCAL KEYWORD	^XT(8984.1,	The lookup entry (or code) can be associated with multiple key words or key	NO	N/A


File #	File Name	Global Location	Description	Data w/ File	Data Setting
			<p>phrases. The entry is displayed if the user enters all or any part of a key phrase.</p> <p>Lookups are performed in the following order:</p> <ol style="list-style-type: none"> 1. SHORTCUT—Stops here if a match is found. 2. SYNONYM. 3. KEYWORD. 		
8984.2 (Toolkit)	LOCAL SHORTCUT	^XT(8984.2,	<p>This is a word or phrase that will be used <i>exclusively</i> to find an entry. During a lookup, this file is checked first. If a shortcut matches the user's entry, the corresponding entry is displayed, and no other lookups will be performed.</p>	NO	N/A
8984.3 (Toolkit)	LOCAL SYNONYM	^XT(8984.3,	<p>Synonyms are single terms that can be associated with one or more TERMS in the lookup file (tokens in the MTLU cross-reference). For example, "CANCER" can be associated with each of the specific forms of cancer that might be found.</p> <p> NOTE: If the user enters a phrase, all terms in the phrase <i>must</i> be true to get a match; therefore, "LUNG CANCER" might significantly restrict the search.</p>	NO	N/A
8984.4 (Toolkit)	LOCAL LOOKUP	^XT(8984.4,	<p>This file is used to define other files that have been configured for Multi-term lookups, along with the name of the file's MTLU cross-reference.</p>	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
8989.2	KERNEL PARAMETER S	^XTV(8989.2,	This file holds parameters that Kernel uses and the site is allowed to change. For example, the Computer Account Letter. Kernel loads its standard name into the file and if the site builds a new letter, then they can enter a replacement name that will be used in place of the standard one.	NO	N/A
8989.3	KERNEL SYSTEM PARAMETER S	^XTV(8989.3,	This file holds the site parameters for this installation of Kernel. It has only one entry, the domain name of the installation site. Some parameters are defined by the systems manager during the installation process. These include: Agency, Volume Set Multiple, Default parameters. Others can be edited subsequent to installation. Spooling and Audit parameters can be established. Priorities can be set for interactive users and for TaskMan. Defaults for fields (e.g., timed read, auto-menu, and ask device) are defined for use when <i>not</i> otherwise specified for a user or device.	NO	N/A
8989.51	PARAMETER DEFINITION	^XTV(8989.51,	This file contains the characteristics of parameters. Entries in this file <i>must</i> be namespaced.	YES	Replace
8991 (Toolkit)	XTV ROUTINE CHANGES	^XTV(8991,	This file is used to record the most current version of a routine, and information about changes that have occurred in that routine in prior versions. Routines	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			<p>are checked for any changes by using the Update with current routines [XTVR UPDATE] option, which enters any changes noted and updates the most current version. There is no need for manual entry into this file.</p> <p>Use the Routine Compare - Current with Previous [XTVR COMPARE] option to obtain listings of the changes recorded for the routines from the most recent to earlier changes.</p>		
8991.19 (Toolkit)	XTV VERIFICATION PACKAGE	^XTV(8991.19,	This file is used to indicate the file numbers for the main files and namespaces for options, keys, etc., which are to be included as a part of a package undergoing verification. This file is used to determine the files and other entries to be included by the routines that are used in preparing and comparing the XTV GLOBAL CHANGES file.	NO	N/A
8991.2 (Toolkit)	XTV GLOBAL CHANGES	^XTV(8991.2,	This file records the state of a given verification package in terms of DD entries, options, keys, templates, etc. for comparison with a subsequent version of the package.	NO	N/A
8991.5	XQAB ERRORS LOGGED	^XTV(8991.5,	This file is used to maintain a log of errors occurring at alpha/beta test sites.	NO	N/A
8991.6	XUEPCS DATA	^XTV(8991.6,	This file is used for the DEA ePCS project (Kernel Patch XU*8.0*580). It stores audit data for ePCS-	NO	N/A


File #	File Name	Global Location	Description	Data w/ File	Data Setting
			related fields that have been modified.		
8991.7	XUEPCS PSDRPH AUDIT	^XTV(8991.7,	This file is used for the DEA ePCS project (Kernel Patch XU*8.0*580). It stores audit data when a user is allocated or de-allocated the PSDRPH security key.	NO	N/A
8992	ALERT	^XTV(8992,	This file is used to keep track of alerts pending processing for each user. The main entry for each record is a pointer to the NEW PERSON (#200) file. A multiple under each user is used to record the date and time an alert was generated, the unique ID associated with the alert, the text for display, an optional routine entry point or option for use in processing the alert, and an optional data string associated with the alert.	NO	N/A
8992.1	ALERT TRACKING	^XTV(8992.1,	This file is used to track the content and interactions with an alert. Every alert that is generated is initially filed within this file. Each entry has the date and time the alert was generated, which user generated the alert, whether the alert was generated in a background task, what action was to be taken, if any (the entry point or option name to be used), and the data string, if any, for use with the alert. There is a multiple field which also identifies each user that the alert was sent to, when the user	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			<p>initially saw the displayed text, when the alert was selected for processing, when the processing was completed, and when the alert was deleted after processing or associated with another user's processing, or when the alert was deleted by a cleanup operation.</p> <p>Unless a longer lifetime is specified for the specific alert, it is deleted from the file after 30 days. If a longer lifetime is specified, it will <i>not</i> be deleted until after that period passes.</p>		
8992.2	ALERT RECIPIENT TYPE	^XTV(8992.2,	<p>This file was added with Kernel Patch XU*8.0*285. This file was added to contain indicators as to why an alert was sent.</p>	NO	N/A
8992.3	ALERT CRITICAL TEXT	^XTV(8992.3,	<p>This file makes it easier for packages or sites to specify text that should be used to indicate an alert to be marked as Critical. It contains those text strings that are identified as indicating a Critical-type alert. This checking is <i>not</i> case sensitive, and if the identified string is immediately preceded by either of the following words, it will <i>not</i> be indicated as a Critical-type alert:</p> <ul style="list-style-type: none"> • NOT • NON <p> NOTE: This file was added with Kernel Patch XU*8.0*513.</p> <p>Using this file means that</p>	YES	Over-write

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			<p>the package or site can add desired text for identification as Critical-type by using Integration Control Registration (ICR) #6869, ALERT CRITICAL TEXT LOOKUP AND EDIT. This is a “Controlled Subscription” type ICR that allows application development teams to release patches that update the ALERT CRITICAL TEXT (#8992.3) file.</p> <p> CAUTION: Application development teams making changes to the ALERT CRITICAL TEXT (#8992.3) file are responsible for confirming the change does <i>not</i> affect Kernel’s reporting of Critical-type alerts.</p> <p>Adding an entry with Critical-type text to the ALERT CRITICAL TEXT (#8992.3) file reports any alert containing that text as Critical. Careful analysis is necessary to confirm changes do <i>not</i> cause malfunction of any VistA alerts. When creating a</p>		

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			<p>new entry in the ALERT CRITICAL TEXT (#8992.3) file, it is <i>recommended</i> the associated application be indicated in the CREATING PACKAGE (#.03) field. Thus, any inquiries regarding the Critical alert text can be directed to the appropriate development team. Also, the description included in the PACKAGE-ID (#.02) field in the ALERT CRITICAL TEXT (#8992.3) file should be reviewed to determine if it <i>must</i> be defined. That field's description indicates that data in this field can further screen alerts from being reported as critical. Its use should be understood when adding entries to the ALERT CRITICAL TEXT (#8992.3) file.</p>		
8993	XULM LOCK DICTIONARY	^XLM(8993,	This file contains descriptions and specifications for locks held by various applications. The Lock	YES	Over-write

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			Manager uses it to provide information and guidance to the user about locks found in the lock table.		
8993.1	XULM LOCK MANAGER PARAMETERS	^XLM(8993.1,	This is the parameter file for the Kernel Lock Manager. It should contain only one entry.	NO	N/A
8993.2	XULM LOCK MANAGER LOG	^XLM(8993.2,	This file records each instance of the Kernel Lock Manager being used to terminate a process and the locks that the process held.	NO	N/A
8994	REMOTE PROCEDURE	^XWB(8994,	<p>This file is owned by RPC Broker. This file is used as a repository of server-based procedures in the context of the Client/Server architecture. By using the Remote Procedure Call (RPC) Broker, applications running on client workstations can invoke (call) the procedures in this file to be executed by the server and the results are returned to the client application.</p> <p>Each remote procedure entry is associated with an entry point (ROUTINE with optional TAG). Calls to these procedures can include parameters of different value types. The resulting value of the call can be either a string, a list of strings, or a word-processing string as indicated by the RETURN VALUE TYPE (.04) field.</p> <p>The remote procedure may be available for use by anyone or its use may be restricted to one or more</p>	NO	N/A

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			<p>applications. The range of availability is indicated by the AVAILABILITY field.</p> <p> NOTE: If there is no entry in the AVAILABILITY field, then the procedure is assumed to be PUBLIC.</p> <p>A remote procedure can be removed from service for a period of time by setting the INACTIVE field. A request for use of a procedure, which is marked inactive, will result in an error being returned to the originating application.</p>		
8994.5	REMOTE APPLICATION	^XWB(8994.5,	<p>This file is owned by RPC Broker and used by Kernel security to identify remote applications. Kernel uses this file to identify external applications in the SIGN-ON LOG (#3.081) file and for assigning a role-based user context to authenticated applications.</p> <p>The REMOTE APPLICATION file was introduced as part of the Broker Security Enhancement (BSE) to secure access via the remote user or visitor approach by GUI applications (formerly known as the CAPRI approach for the first application to use this access style). The remote visitor access permits applications where users</p>		

File #	File Name	Global Location	Description	Data w/ File	Data Setting
			<p>need to access a large number of sites to do so without requiring a separate Access code and Verify code at each site.</p> <p>Following the Broker Security Enhancement, applications are able to use the remote visitor access only if they have an entry in this file with a one-way hash of a secure phrase. Identification of an entry in the file is based on the application passing in the original phrase, which is then hashed and used for a cross-reference lookup. The application <i>must</i> have at least one entry in the CALLBACKTYPE sub-file indicating:</p> <ul style="list-style-type: none"> • A connection type. • A valid address for the authenticating server. • A connection port number. <p>This information is necessary for the remote server to directly connect the authenticating server to obtain the demographic information necessary to create or match the visitor entry in the NEW PERSON (#200) file. The application also specifies the desired context option for the user, and this is given to the remote visitor instead of the application having to figure out how to set this value.</p>		

4.2.2 Additional Files Installed During Virgin Installation

The Virgin Installation brings in the following additional files:

Table 16: Files—Kernel Virgin Installation Files

File #	File Name	Global Location	Description	Data w/ File	Data Setting
3.8	MAIL GROUP	^XMB(3.8,	(Exported with MailMan) This file holds the names of all groups and their members known to MailMan.	NO	N/A
4.2	DOMAIN	^DIC(4.2,	(Exported with MailMan) This file is used to name all of the nodes to which MailMan messages can be routed. Each name in this file corresponds to the right side of a MailMan address, the part following the @ symbol.	NO	N/A
5	STATE	^DIC(5,	This file contains a list of state names and abbreviations.	YES	Overwrite
7	PROVIDER CLASS	^DIC(7,	This file is used to identify various classifications or types of providers.	NO	N/A
7.1	SPECIALITY	^DIC(7.1,	This file identifies locally added specialties and their associated services.	NO	N/A
10	RACE	^DIC(10,	This file currently consists of seven entries. The allowable entries are established by VACO MAS. Entries in this file should <i>not</i> be altered or added to. To do so may have a negative impact on the performance of the MAS module as well as other modules.	YES	Overwrite
11	MARITAL STATUS	^DIC(11,	This file currently consists of six entries, which are distributed by the MAS development team. Alteration of any of the six entries or addition of entries to this file which are <i>not</i> distributed by the MAS developers may have a negative impact on the performance of the MAS module as well as other modules.	YES	Overwrite


File #	File Name	Global Location	Description	Data w/ File	Data Setting
13	RELIGION	^DIC(13,	This file currently contains 30 entries. These entries are determined by VACO MAS. This file should <i>not</i> be added to nor should entries in it be altered or deleted by the facility. Entry, edit, or deletion of these entries could have severe negative effects on the performance of the MAS module.	YES	Overwrite


4.3 Fields


4.3.1 PERSON CLASS (#8932.1) File

The PERSON CLASS (#8932.1) file contains the Health Care Financing Administration (HCFA) taxonomy that reflects provider type. It contains the following fields:

Table 17: Field List—PERSON CLASS (#8932.1) File (Kernel Patch XU*8.0*27)

Field #	Field Name	Description
.001	NUMBER	This is a number field to allow adding new entries by number.
.01	PROVIDER TYPE	<p>This is Level I of the National Uniform Claim Committee (NUCC) structure of the Provider Taxonomy.</p> <p> REF: For more information on the NUCC, please visit the NUCC website located at the following Web address: http://www.nucc.org/</p>
.011	PROVIDER TYPE CODE	This is Level I, Provider Type— 2 -byte alphanumeric, consisting of the 1st and 2nd characters of X12 CODE , which is a code that identifies a major grouping of services or occupations of health care providers.
1	CLASSIFICATION	This is the CMS (X12) Classification (Level II). Values <i>must</i> be from 3 to 65 characters in length.
1.1	CLASSIFICATION CODE	This is Level II, Classification Code— 2 -byte alphanumeric consisting of the 3rd and 4th characters of the X12 CODE , which is a code that identifies more specific services or occupations within the health care provider type. The coding is based on licensed provider

Field #	Field Name	Description
		classifications.
2	AREA OF SPECIALIZATION	This is Level III in NUCC's structure of the Provider Taxonomy. It is the most specific, but sometimes defines a "sub-category" of Classification. Values <i>must</i> be from 2 to 75 characters in length.
2.1	AREA OF SPECIALIZATION CODE	<p>This is Level III, Area of Specialization—5-byte alphanumeric consisting of the 5th through 9th characters of the X12 CODE, which is a code that identifies:</p> <ul style="list-style-type: none"> • Provider's specialization. • Segment of the population that a health care provider chooses to service. • Specific medical service. • Specialization in treating a specific disease. • Any other descriptive characteristic about the providers practice relating to the services rendered.
3	STATUS	<p>This field allows old entries to be disabled <i>without</i> removing them from the table. Valid values are:</p> <ul style="list-style-type: none"> • a—Active • i—Inactive
4	DATE INACTIVATED	This field holds the date that a Provider Class was inactivated.
5	VA CODE	This field holds the 7 -character VA assigned code for national rollup.
6	X12 CODE	<p>This is the code assigned by American National Standards Institute (ANSI) X12. X12 published the joint X12N and Centers for Medicare & Medicaid Service (CMS) Health Care Provider Taxonomy following the June 1997 X12 meeting.</p> <p> NOTE: ANSI X12 subcommittee N covers standards in the insurance industry, including health insurance; hence these are X12N standards.</p> <p>"X12N standards include transactions for claims/encounters, attachments, enrollment, disenrollment, eligibility, payment/remittance advice, premium payments, first report of injury, claim status,</p>

Field #	Field Name	Description
		referral certification/authorization, and coordination of benefits.” ¹  NOTE: A revised ANSI X12N 837 Professional Health Care Claim Companion Document was created in 2005.
7	reserved	This field is only used with a conversion routine for updates to the file. Any data is only used by an update routine.
8	SPECIALTY CODE	This field holds the 2 -character specialty code associated with the classification.
11	DEFINITION	Enter the definition of this Provider Type. Types with X12 codes are defined by the National Uniform Claim Committee (NUCC), provided by various sources.
90002	INDIVIDUAL/NON	This field indicates whether the entry is for an Individual or for a Non-Individual. Valid values are: <ul style="list-style-type: none"> • I—Individual • N—Non-Individual This field was added at the request of Indian Health Service (IHS) in their numberspace, until the file supporting Non-Individual taxonomies can be defined. Currently, the X12 CODE definition does <i>not</i> explicitly indicate whether an entry is for an Individual or for a Non-Individual, either in value or structure definition.

The following field was exported with the Assigning Person Class to Providers software (i.e., Kernel Patch XU*8.0*27):

Table 18: Field List—Assigning Person Class to Providers Software (i.e., Kernel Patches XU*8.0*27, 377, and 531)

File Number	File Name	Field Name and Number	Description
200	NEW PERSON	PERSON CLASS (#.05) field	This is a Multiple field. It includes the following subfields: <ul style="list-style-type: none"> • NUMBER (#.001). • PERSON CLASS (#.01)—Pointer to the PERSON CLASS (#8932.1) file.

¹ Excerpt taken from the "X12N" topic on the University of Miami; Miller School of Medicine website: http://privacy.med.miami.edu/glossary/xd_x12n.htm, last modified May 11, 2005 (RC)

File Number	File Name	Field Name and Number	Description
			<ul style="list-style-type: none"> • EFFECTIVE DATE (#2)—The date the PERSON CLASS became effective. • EXPIRATION DATE (#3)—The date the PERSON CLASS is no longer valid. <p>Kernel Patch XU*8.0*27 added the PERSON CLASS field to the following Kernel options:</p> <ul style="list-style-type: none"> • Edit an Existing User [XUSEREDIT] • Add a New User to the System [XUSERNEW] • Reactivate a User [XUSERREACT]

5 Exported Options

This chapter lists the options exported with Kernel and Kernel Toolkit.

5.1 Menu Tree Roots

Kernel exports three separate menu trees. They are:

- **Systems Manager Menu** [EVE]—Eve is used by the systems manager to get to other menus. Eve contains the following submenus:
 - **Core Applications** [XUCORE]
 - **Device Management** [XUTIO]
 - **Menu Management** [XUMAINT]
 - **Operations Management** [XUSITEMGR]
 - **Programmer Options** [XUPROG]
 - **Spool Management** [XU-SPL-MGR]
 - **System Security** [XUSPY]
 - **Taskman Management** [XUTM MGR]
 - **User Management** [XUSER]
- **SYSTEM COMMAND OPTIONS** [XUCOMMAND]—This menu holds the common menu options executable from anywhere in the menu processor.
- **Parent of Queuable Options** [ZTMQUEUEABLE OPTIONS]—This menu has no parent; it collects together all parentless Kernel options that are intended to be scheduled through the **TaskMan Schedule/Unschedule Options** [XUTM SCHEDULE] option.

5.2 Menu Tree Diagrams

The menu tree diagrams for the menus described in the “[Menu Tree Roots](#)” section are presented in this section.

- The menu tree diagram for the **Systems Manager Menu** [EVE] is broken into the individual menu trees for each EVE option.
- The menu tree diagrams for the **Parent of Queuable Options** [ZTMQUEUEABLE OPTIONS] and the **SYSTEM COMMAND OPTIONS** [XUCOMMAND] menus are presented intact.

5.2.1 Generating Menu Diagrams

To generate a menu tree diagram, perform the following procedure:

1. From the **Systems Manager Menu** [EVE, select the **Menu Management** option [XUMAINT].
2. At the “Select Menu Management Option:” prompt, select the **Display Menus and Options** option [XQDISPLAY OPTIONS]:
3. At the “Select Display Menus and Options Option:” prompt, select the **Diagram Menus** option [XUUSERACC].
4. At the “Select USER (U.xxxxx) or OPTION (O.xxxxx) name:” prompt, enter **O.XXXXXXXXXX**, where “XXXXXXXXXX” is the option name you want diagrammed (e.g., O.XUMAINT for the Menu Management menu).
5. At the “DEVICE: HOME//” and “Right Margin: 80//” prompts, press **Enter** to display the diagram to the screen.

Figure 6: Menus—Generating Menu Diagrams: Sample from OAKTST “Gold” Account

```

Core Applications ...
Device Management ...
FM  VA FileMan ...
    Manage Mailman ...
    Menu Management ...
    Programmer Options ...
    Operations Management ...
    Spool Management ...
    Information Security Officer Menu ...
    Taskman Management ...
    User Management ...
HL7  HL7 Main Menu ...
VDEF VDEF Configuration and Status ...
    Application Utilities ...
    Capacity Planning ...
    Fileman Access for the OIG ...

Select Systems Manager Menu Option: MENU <Enter> Management

    Edit options
    Key Management ...
    Secure Menu Delegation ...
    Restrict Availability of Options
    Option Access By User
    List Options by Parents and Use
    Fix Option File Pointers
    Help Processor ...
    OPED Screen-based Option Editor
        Display Menus and Options ...
        Menu Rebuild Menu ...
        Out-Of-Order Set Management ...
        See if a User Has Access to a Particular Option
        Show Users with a Selected primary Menu

Select Menu Management Option: DISPLAY <Enter> Menus and Options

    Abbreviated Menu Diagrams
    Diagram Menus
    Menu Diagrams (with Entry/Exit Actions)
    Option Function Inquiry
    Print Option File

Select Display Menus and Options Option: DIAGRAM <Enter> Menus

Select USER (U.xxxxx) or OPTION (O.xxxxx) name: O.XUMAIN <Enter> Menu Management
DEVICE: HOME// <Enter> HOME (CRT) Right Margin: 80// <Enter>

Menu Management (XUMAIN)
|
|
----- Edit options
                                         [XUEDITOPT]

----- Key Management ----- Allocation of
[XUKEYMGMT]                               Security Keys
                                         [XUKEYALL]
|
|----- De-allocation of
|                               Security Keys
|                               [XUKEYDEALL]

```


	-----	Enter/Edit of Security Keys [XUKEYEDIT]
	-----	All the Keys a User Needs [XQLOCK1]
	-----	Allocate/De-Allo cate Exclusive Key(s) [XUEXKEY] **LOCKED: XUEXKEY**
	-----	Change user's allocated keys to delegated keys [XQKEYALTODEL]
	-----	Delegate keys [XQKEYDEL]
	-----	Keys For a Given Menu Tree [XQLOCK2]
	-----	List users holding a certain key [XQSHOKEY]
	-----	Remove delegated keys [XQKEYRDEL]
	-----	Show the keys of a particular user [XQLISTKEY]
.		
.		
.		

5.2.2 Systems Manager Menu [EVE]

The Systems Manager Menu EVE contains the following menu trees:

- [XUCORE](#)
- [XUTIO](#)
- [XUMAINT](#)
- [XUSITEMGR](#)
- [XUPROG](#)
- [XU-SPL-MGR](#)
- [XUSPY](#)
- [XUTM MGR](#)
- [XUSER](#)
- [Parent of Queuable Options \[ZTMQUEUEABLE OPTIONS\]](#)
- [SYSTEM COMMAND OPTIONS \[XUCOMMAND\]](#)



REF: Each of these menu trees is listed individually in the sections that follow.

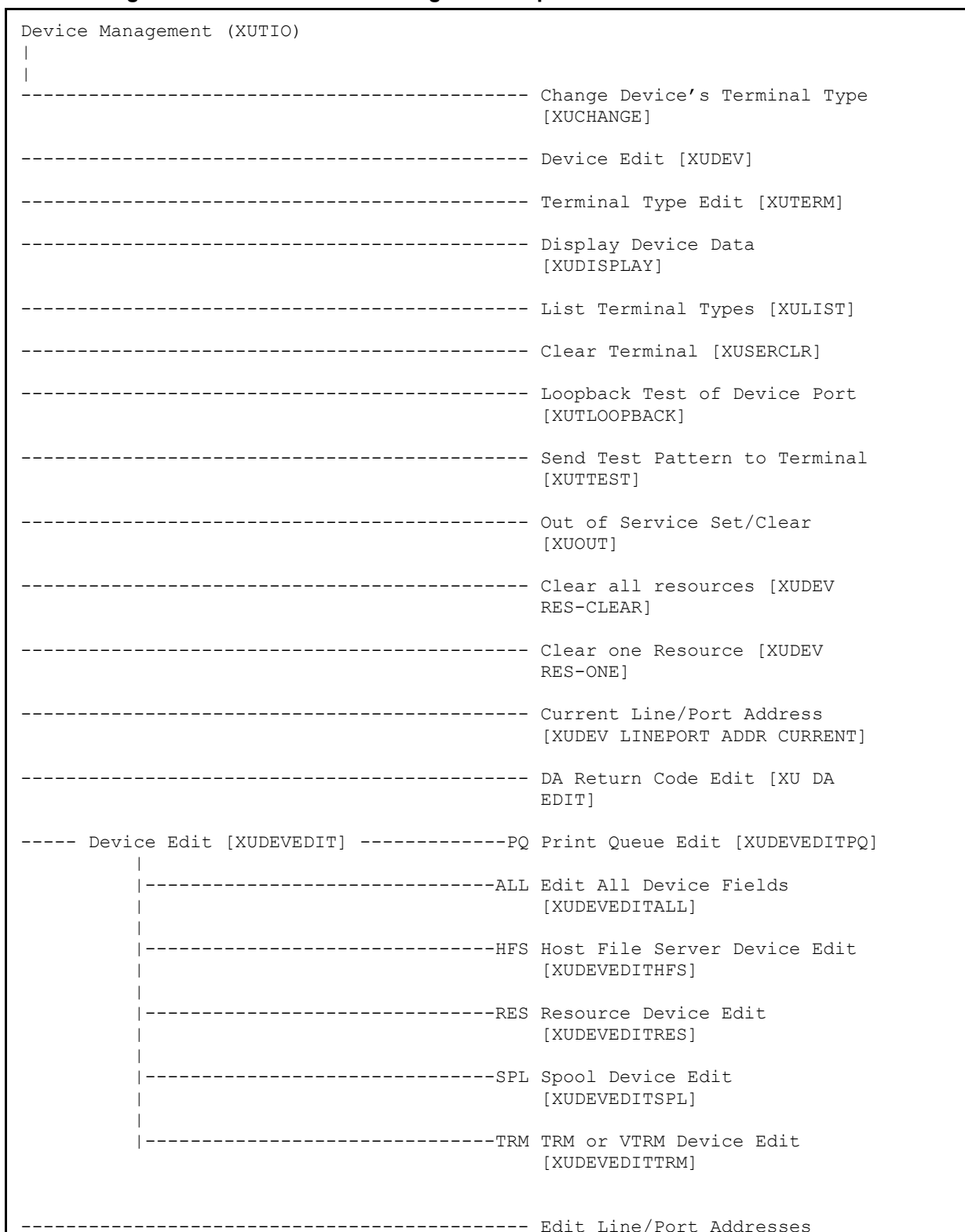
5.2.3 XUCORE

Figure 7: XUCORE—Menu Tree Diagram: Sample from OAKTST “Gold” Account

```
Core Applications (XUCORE)
|
|
```

5.2.4 XUTIO

Figure 8: XUTIO—Menu Tree Diagram: Sample from OAKTST “Gold” Account

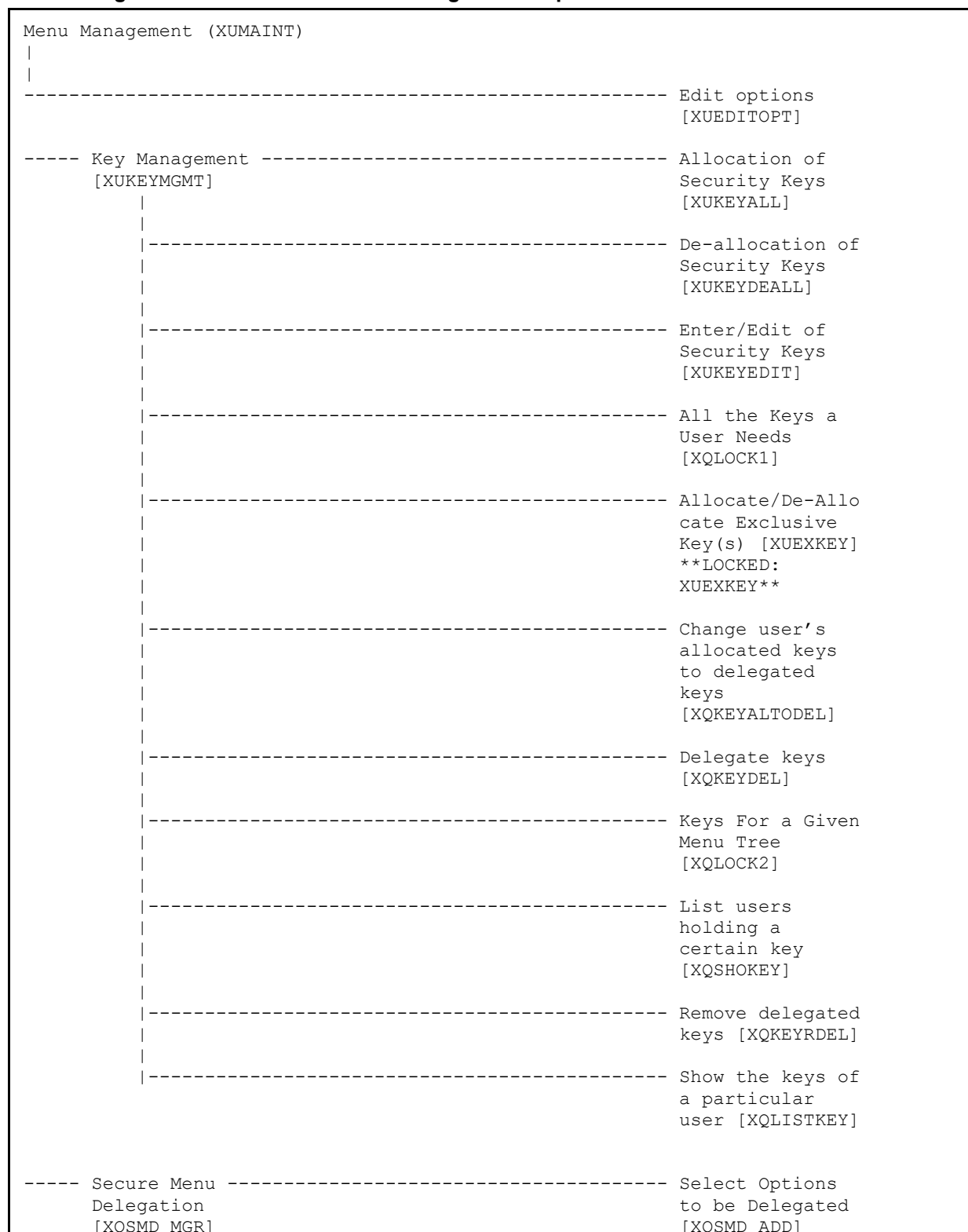


[XUDEV LINEPORT ADDR EDIT]

----- Line/Port Address report
[XUDEV LINEPORT ADDR RPT]

5.2.5 XUMAINT

Figure 9: XUMAINT—Menu Tree Diagram: Sample from OAKTST “Gold” Account



	-----	List Delegated Options and their Users [XQSMD BY OPTION]
	-----	Print All Delegates and their Options [XQSMD BY USER]
	-----	Remove Options Previously Delegated [XQSMD REMOVE]
	-----	Replicate or Replace a Delegate [XQSMD REPLICATE]
	-----	Show a Delegate's Options [XQSMD SHOW]
	-----	Delegate's Menu -----
		Build a New Menu Management [XQSMD USER MENU]
		Edit a User's Options [XQSMD EDIT OPTIONS]
		Copy Everything About an Option to a New Option [XQCOPYOP]
		Copy One Users Menus and Keys to others [XQSMD COPY USER]
		Limited File Manager Options (Build) [XQSMD LIMITED FM OPTIONS] **LOCKED: XQSMDFM**
	-----	Specify Allowable New Menu Prefix [XQSMD SET PREFIX]
	-----	Restrict

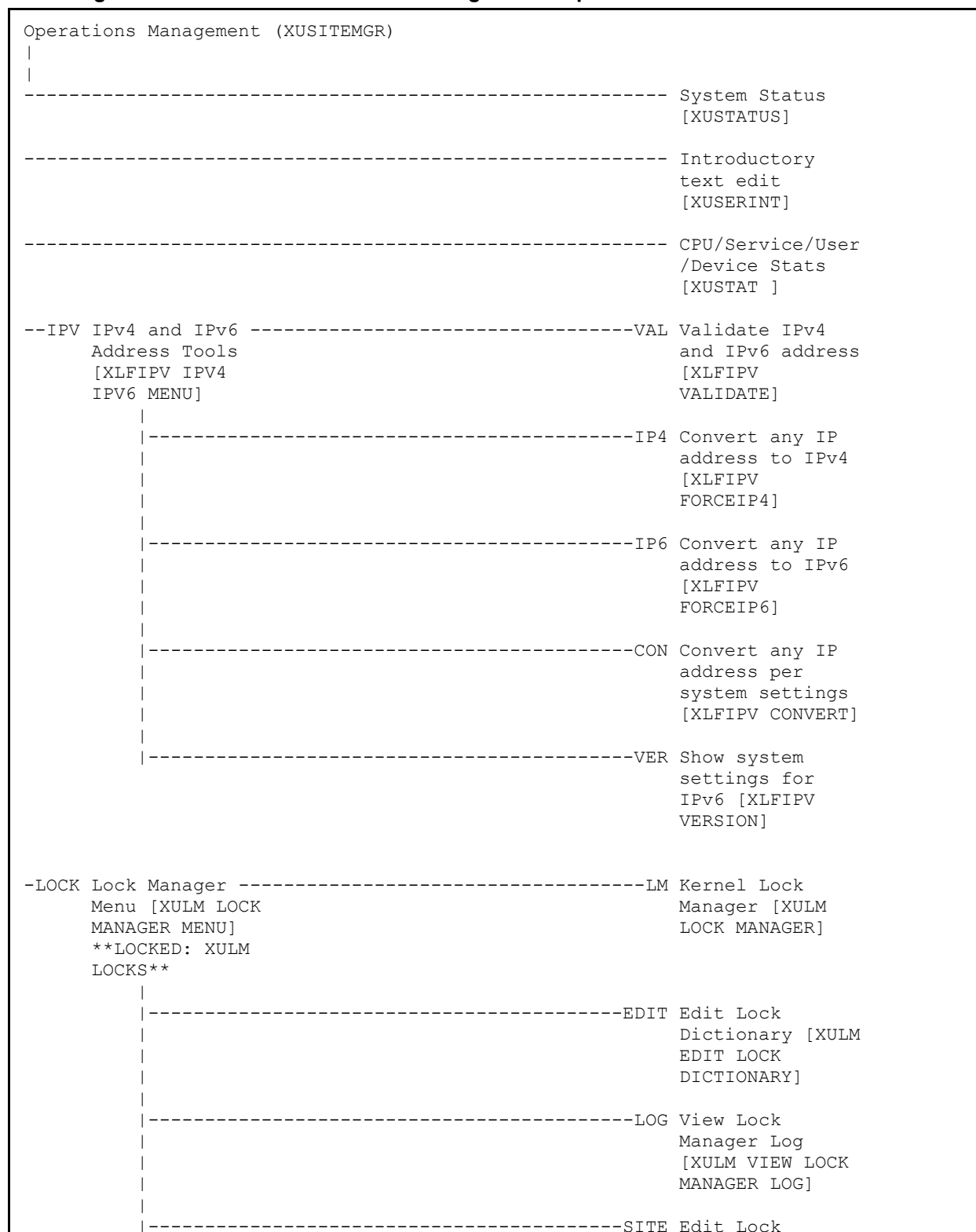
	Availability of Options [XQRESTRICT]
-----	Option Access By User [XUOPTWHO]
-----	List Options by Parents and Use [XUXREF]
-----	Fix Option File Pointers [XQOPTFIX]
----- Help Processor ----- [XQHELP-MENU]	Display/Edit Help Frames [XQHELP-DISPLAY]
	List Help Frames [XQHELP-LIST]
	New/Revised Help Frames [XQHELP-UPDATE]
	Cross Reference Help Frames [XQHELP-XREF]
	Assign Editors [XQHELP-ASSIGN]
	Unassign Editors [XQHELP-DEASSIGN]
	Fix Help Frame File Pointers [XQHELPFIX]
-----	-----OPED Screen-based Option Editor [XQOPED]
----- Display Menus ----- and Options [XQDISPLAY OPTIONS]	Abbreviated Menu Diagrams [XUUSERACC2]
	Diagram Menus [XUUSERACC]
	List Unreferenced Menu Options [XQ LIST UNREFERENCED OPTIONS]
	Menu Diagrams (with Entry/Exit

		Actions) [XUUSERACC1]
		Option Function Inquiry [XUINQUIRE]
		Print Option File [XUPRINT]
----- Menu Rebuild -----		Build Primary Menu Trees [XQBUILDTREE]
Menu [XQBUILDMAIN]		Is there a menu rebuild running right now? [XQRIGHTNOW]
		Kick Off Micro Surgery [XQKICKMICRO]
		Most Recent Menu Rebuilds [XQSHOWBUILDS]
		Single User Menu Tree Rebuild [XQBUILDUSER]
----- Out-Of-Order Set -----		Create a Set of Options To Mark Out-Of-Order [XQOOMAKE]
Management [XQOOMAIN]		List Defined Option Sets [XQOOSHOW]
		Mark Option Set Out-Of-Order [XQOOFF]
		Options in the Option File that are Out-Of-Order [XQOOSHOFIL]
		Protocols Marked Out-Of-Order in Protocol File [XQOOSHOPRO]
		Recover deleted option set [XQOORED0]
		Remove Out-Of-Order Messages from a

	Set of Options [XQOON]
-----	Toggle options/protocols on and off [XQOOTOG]
-----	See if a User Has Access to a Particular Option [XQOPACCESS]
-----	Show Users with a Selected primary Menu [XUXREF-2]

5.2.6 XUSITEMGR

Figure 10: XUSITEMGR—Menu Tree Diagram: Sample from OAKTST “Gold” Account



		Manager Parameters [XULM EDIT PARAMETERS]
	-----PURG	Purge Lock Manager Log [XULM PURGE LOCK MANAGER LOG]
	-----RJD	Kill off a users' job [XURESJOB] **LOCKED: XUMGR**
----- Alert Management [XQALERT MGR]	-----SURO	Alerts - Set/Remove Surrogate for User [XQALERT SURROGATE SET/REMOVE]
	-----	Delete Old (>14 d) Alerts [XQALERT DELETE OLD]
	-----	Make an alert on the fly [XQALERT MAKE]
	-----	Purge Alerts for a User [XQALERT BY USER DELETE] **LOCKED: XQAL-DELETE**
	-----	Set Backup Reviewer for Alerts [XQAL SET BACKUP REVIEWER]
	-----	Surrogate for which Users? [XQAL SURROGATE FOR WHICH USERS]
----- Alpha/Beta Test Option Usage Menu [XQAB MENU]	-----	Actual Usage of Alpha/Beta Test Options [XQAB ACTUAL OPTION USAGE]
	-----	Low Usage Alpha/Beta Test Options [XQAB LIST LOW USAGE OPTS]
	-----	Print Alpha/Beta Errors

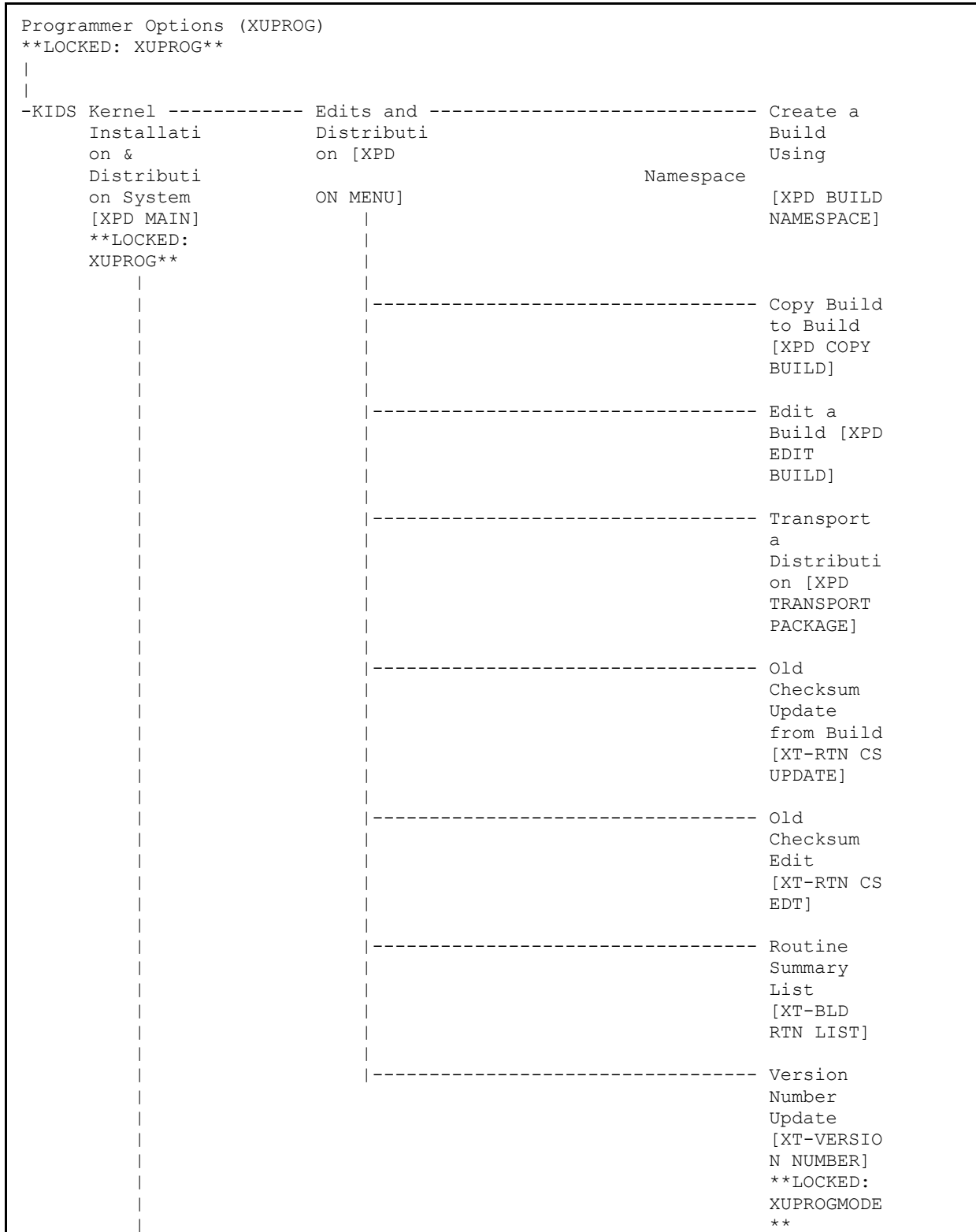
	(Date/Site/Num/R ou/Err) [XQAB ERR DATE/SITE/NUM/RO U/ERR]
	----- Send Alpha/Beta Usage to Developers [XQAB AUTO SEND]
	----- Clean old Job Nodes in XUTL [XQ XUTL \$J NODES]
	----- Delete Old (>14 d) Alerts [XQALERT DELETE OLD]
	----- Foundations Management [XOBU SITE SETUP MENU]
	----- Institution File Query / Update [XUMF INSTITUTION] **LOCKED: XUMF INSTITUTION**
----- Kernel ----- Management Menu [XUKERNEL]	----- Ask if Production Account [XU SID ASK] **LOCKED: XUMGR**
	----- Edit Logical/Physical Mapping [XU SID EDIT]
	----- Edit Site IP lockout [XU SITE LOCKOUT]
	----- Enter/Edit Kernel Site Parameters [XUSITEPARM]
	----- Error Trap Param Edit [XUER EDIT PARAMS]
	----- Institution DEA# edit [XU-INSTITUTION- DEA] **LOCKED:

		XUMGR**
		----- Institution Edit [XU-INSTITUTION- E]
		----- Kernel New Features Help [XUVERSIONEW-HEL P]
		----- Kernel Parameter File Edit [XU PARAM]
		----- Kernel PKI Parameter Edit [XUSSPKI EDIT]
		----- Load Institution NPI values [XUMF LOAD NPI] **UNAVAILABLE**
	NPF cleanup main	-----STA XUPS ASSESSMENT
	menu [XUPS NPF	STATS [XUPS
	CLEANUP MAIN	ASSESSMENT
	MENU]	STATS]
		-----DET XUPS ASSESSMENT
		DETAIL [XUPS
		ASSESSMENT
		DETAIL]
		-----PRE XUPS PREUPDATE
		NPF REPORTS
		[XUPS PREUPDATE
		NPF REPORTS]
		-----UPD XUPS UPDATE NEW
		PERSON FILE DATA
		[XUPS UPDATE NEW
		PERSON FILE]
		----- Release IP lock [XU IP RELEASE]
		----- Post sign-in Text Edit [XUSERPOST]
-----	RPC Broker	----- RPC Listener
	Management Menu	Edit [XWB
	[XWB MENU]	LISTENER EDIT]
		----- Start All RPC
		Broker Listeners
		[XWB LISTENER
		STARTER]
		----- Stop All RPC

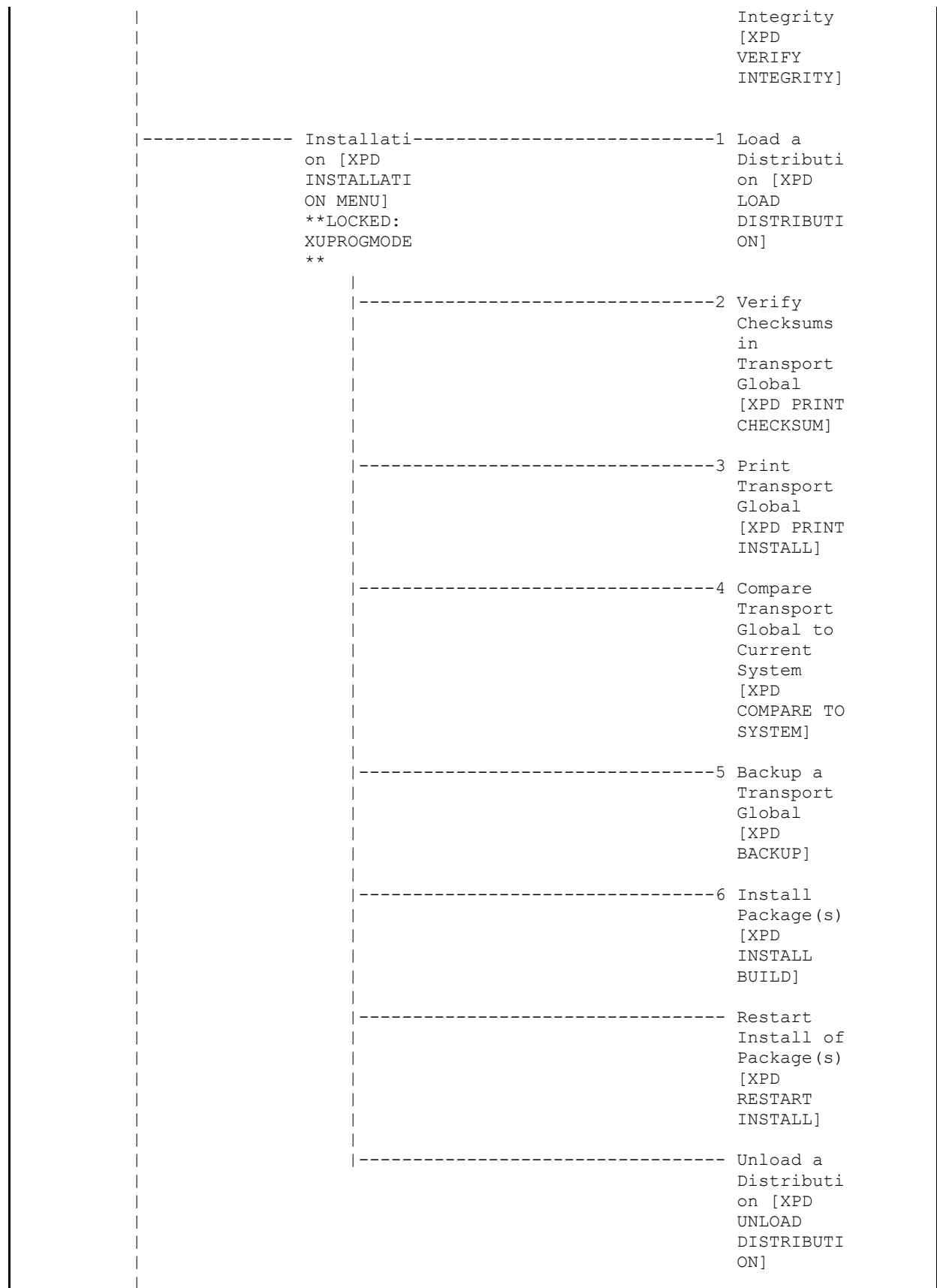
		Broker Listeners [XWB LISTENER STOP ALL]
		----- Clear XWB Log Files [XWB LOG CLEAR]
		----- Debug Parameter Edit [XWB DEBUG EDIT]
		----- View XWB Log [XWB LOG VIEW]
----- User Management Menu [XUOPTUSER]	-----FIND	Find a user [XU FINDUSER]
	-----PXY	Proxy User List [XUSAP PROXY LIST]
	-----	List users [XUSERLIST]
	-----	Print Sign-on Log [XUSC LIST]
	-----	Proxy (Connector) Detail Report [XUSAP PROXY CONN DETAIL ALL]
	-----	Proxy (Connector) Inquire [XUSAP PROXY CONN DETAIL INQ]
	-----	Release user [XUSERREL]
	-----	Remote Access User Sign-on Log [XUSEC REMOTE ACCESS]
	-----	User Inquiry [XUSERINQ]
	-----	User Status Report [XUUSERSTATUS]
	-----	Users with Foreign Visits [XUS VISIT USERS]

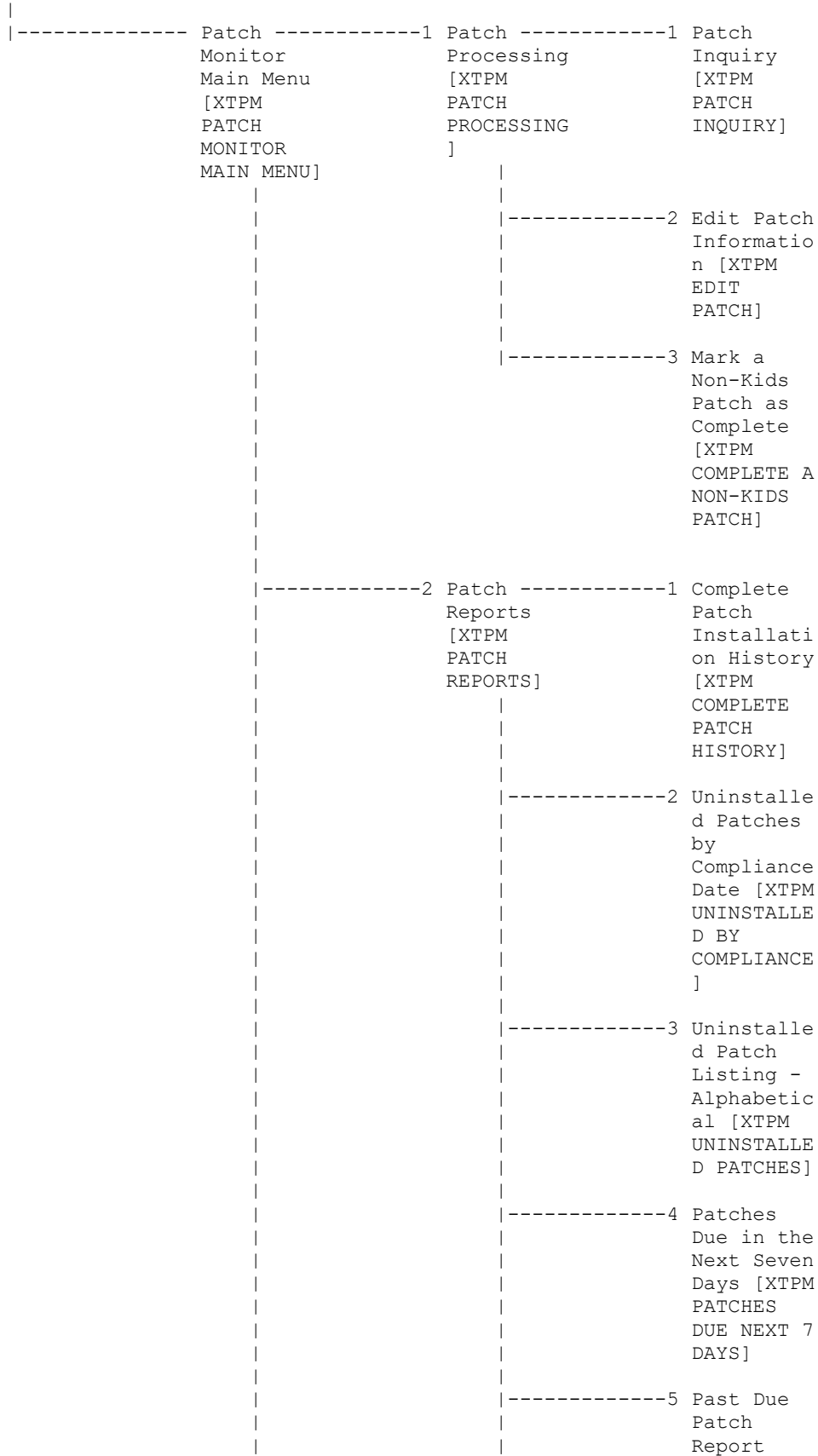
5.2.7 XUPROG

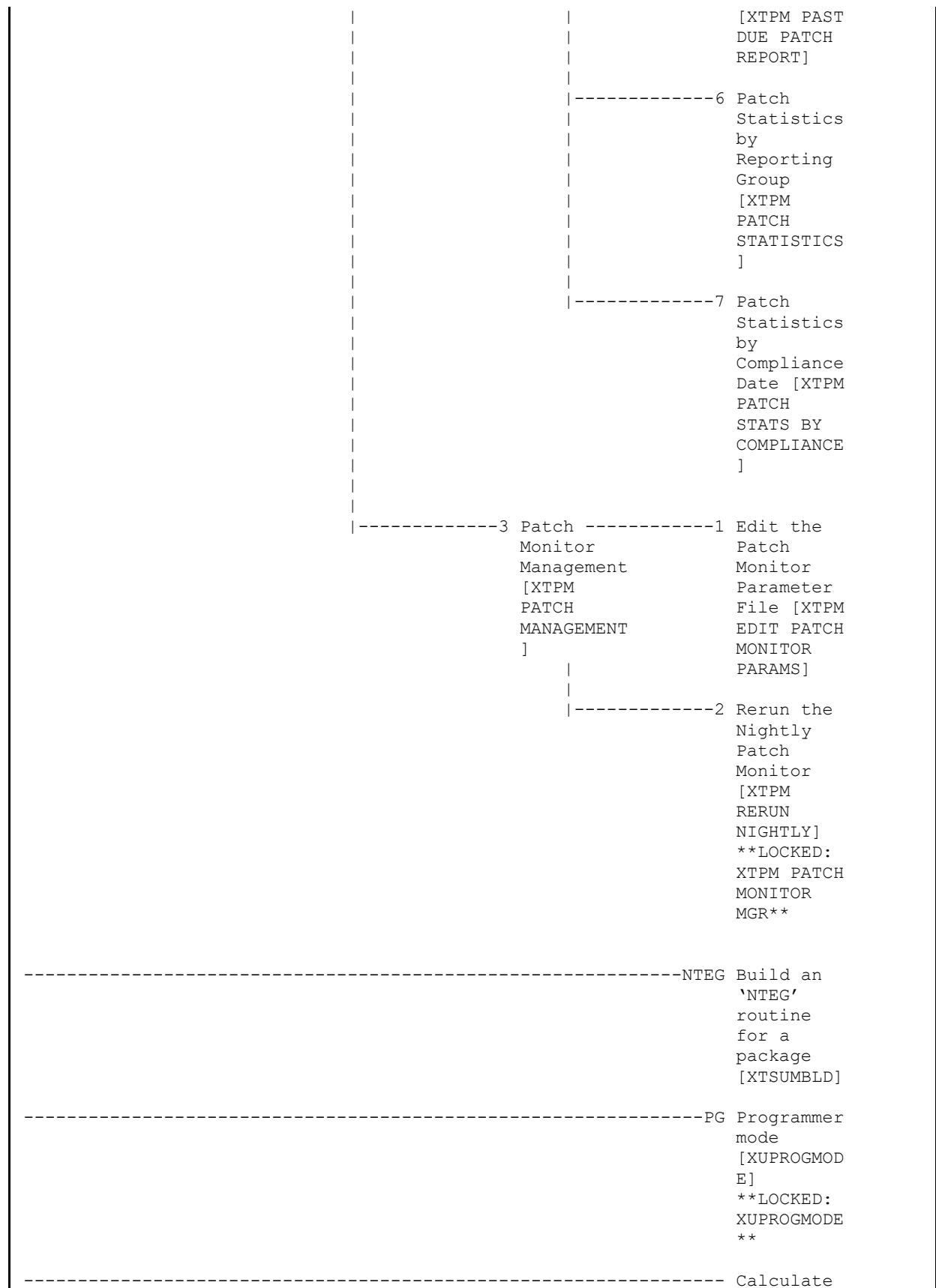
Figure 11: XUPROG—Menu Tree Diagram: Sample from OAKTST “Gold” Account

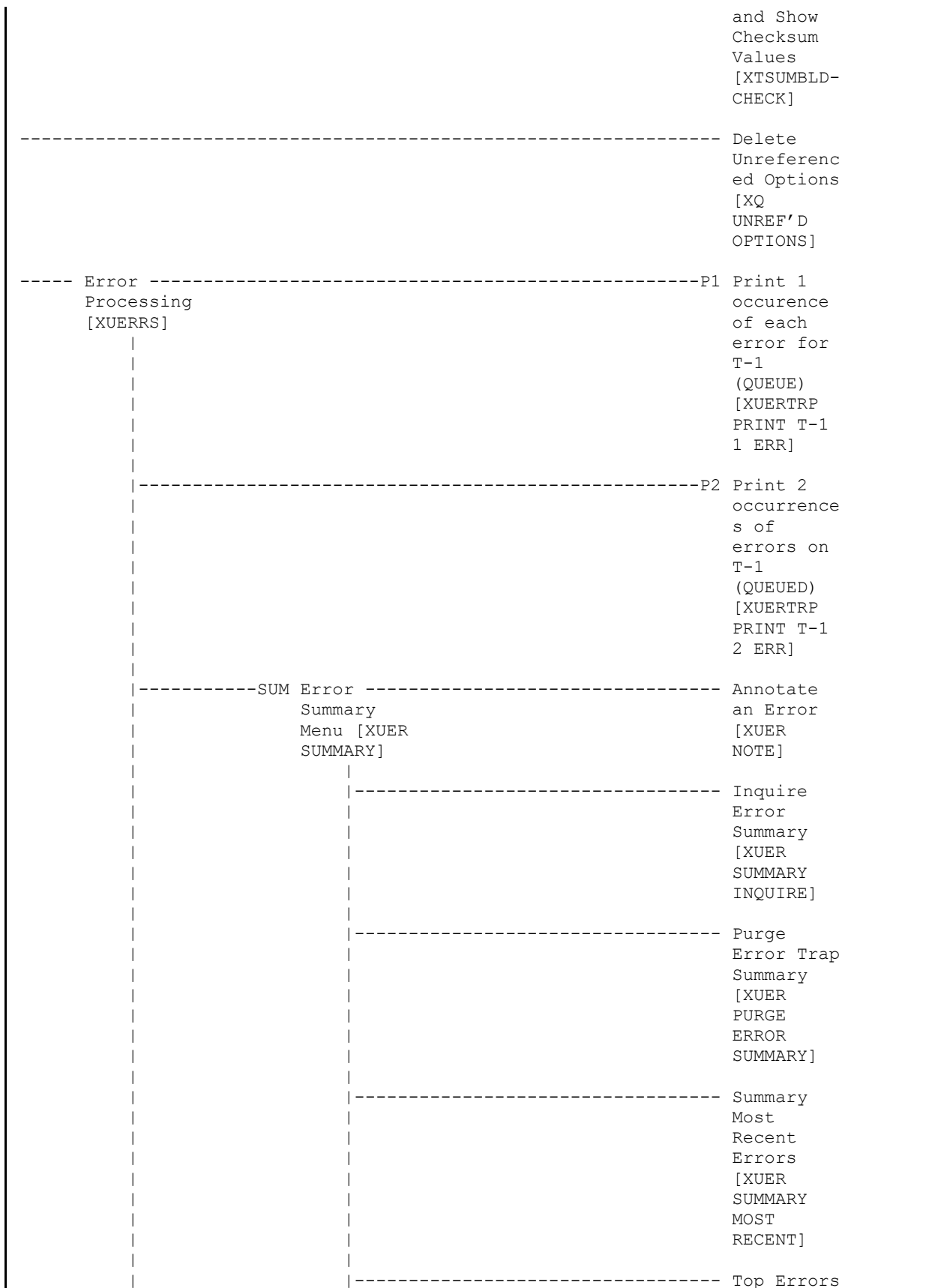


	<div>----- Utilities -----</div> <div>[XPD UTILITY]</div>	<div>Build File Print [XPD PRINT BUILD]</div> <div>Install File Print [XPD PRINT INSTALL FILE]</div> <div>Edit Install Status [XPD EDIT INSTALL]</div> <div>Convert Loaded Package for Redistribution [XPD CONVERT PACKAGE]</div> <div>Display Patches for a Package [XPD PRINT PACKAGE PATCHES]</div> <div>Purge Build or Install Files [XPD PURGE FILE]</div> <div>Rollup Patches into a Build [XPD ROLLUP PATCHES]</div> <div>Update Routine File [XPD ROUTINE UPDATE]</div> <div>Verify a Build [XPD VERIFY BUILD]</div> <div>Verify Package</div>
--	---	--









		[XUER SUMMARY TOP]
		----- Update Error Trap Summary [XUER UPDATE DEMAND/BAT CH]
		----- Clean Error Trap [XUERTRP CLEAN] **LOCKED: XUPROGMODE **
		----- Error Trap Display [XUERTRAP]
		----- Interactiv e Print of Error Messages [XUERTRP PRINT ERRS]
		----- Remove a TYPE of error [XUERTRP TYPE]
-----		Global Block Count [XU BLOCK COUNT]
-----		List Global [XUPRGL] **LOCKED: XUPROGMODE **
-----		Map Pointer Relations [DI DDMAP]
-----		Number base changer [XT-NUMBER BASE]

	CHANGER] **LOCKED: XUPROGMODE **
----- Routine ----- Tools [XUPR-ROUT INE-TOOLS]	%Index of Routines [XUINDEX]
-----	Check Routines on Other CPUs [XUPR RTN CHKSUM]
-----	Compare local/nati onal checksums report [XU CHECKSUM REPORT]
-----	Compare routines on tape to disk [XUPR-RTN- TAPE-CMP]
-----	Compare two routines [XT-ROUTIN E COMPARE]
-----	Delete Routines [XTRDEL] **LOCKED: XUPROGMODE **
-----	First Line Routine Print [XU FIRST LINE PRINT]
-----	Flow Chart Entire Routine [XTFCR]
-----	Flow Chart from Entry Point [XTFCE]
-----	Group Routine

	Edit [XTRGRPE] **LOCKED: XUPROGMODE **
	Input routines [XUROUTINE IN] **LOCKED: XUPROG**
	List Routines [XUPRROU]
	Load/refre sh checksum values into ROUTINE file [XU CHECKSUM LOAD]
	Output routines [XUROUTINE OUT]
	Routine Edit [XUPR RTN EDIT] **LOCKED: XUPROGMODE **
	Routines by Patch Number [XUPR RTN PATCH]
	Variable changer [XT-VARIAB LE CHANGER] **LOCKED: XUPROGMODE **
	Version Number Update [XT-VERSIO N NUMBER] **LOCKED: XUPROGMODE **

	-----	Test an option not in your menu [XT-OPTION TEST] **LOCKED: XUMGR**
----- Verifier ----- Tools Menu [XTV MENU]	-----	Update with current routines [XTVR UPDATE]
	-----	Routine Compare - Current with Previous [XTVR COMPARE]
	-----	Accumulate Globals for Package [XTVG UPDATE]
	-----	Edit Verification Package File [XTV EDIT VERIF PACKAGE]
	-----	Global Compare for selected package [XTVG COMPARE]
	-----	Last Routine Change Date Recorded [XTVR MOST RECENT CHANGE DATE]
	-----	UNDO Edits (Restore to Older Version of Routine) [XTVR

5.2.8 XU-SPL-MGR

Figure 12: XU-SPL-MGR—Menu Tree Diagram: Sample from OAKTST “Gold” Account

```
Spool Management (XU-SPL-MGR)
|
|
----- Delete A Spool Document
           [XU-SPL-DELETE]

----- Edit User's Spooler Access
           [XU-SPL-USER]

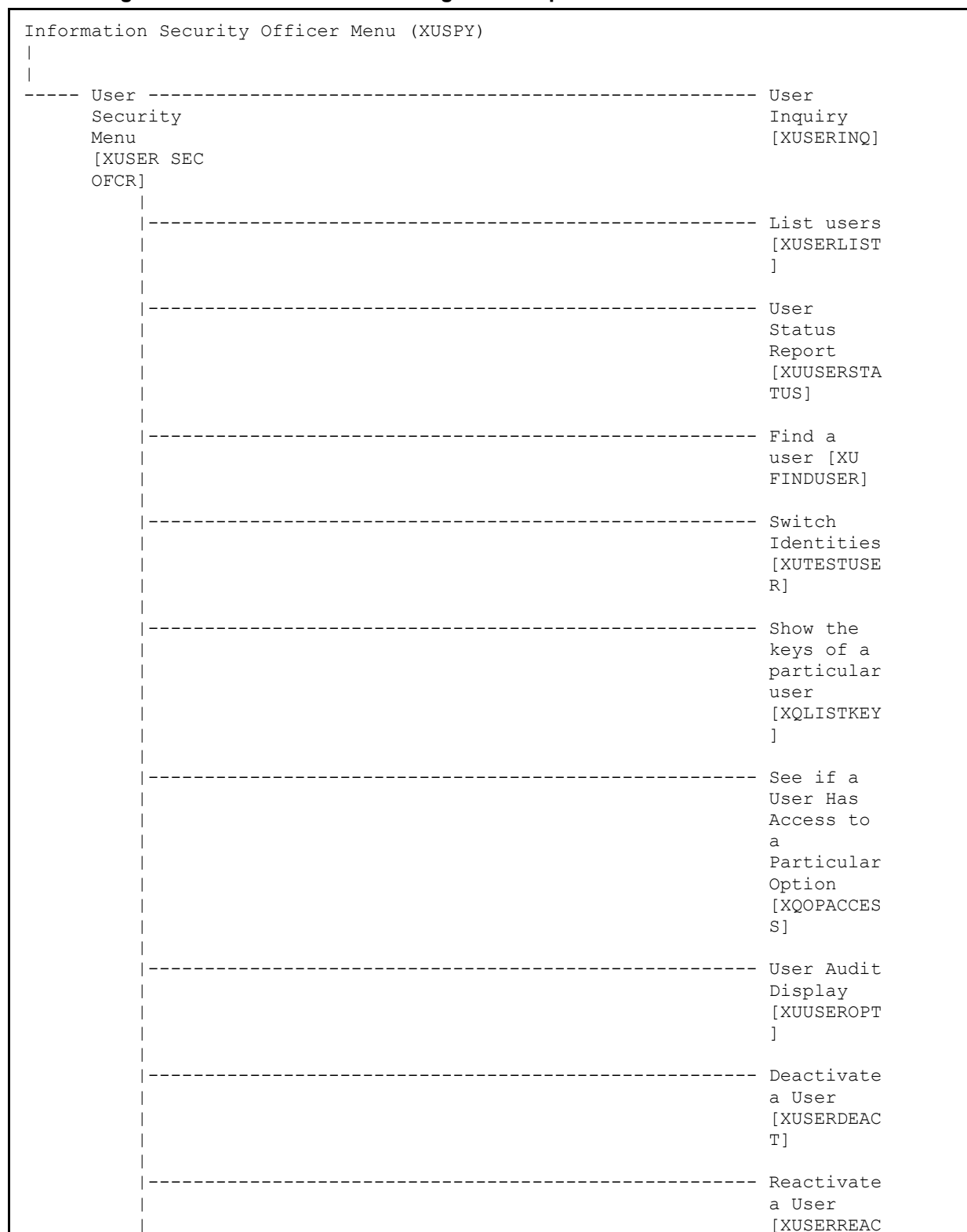
----- List Spool Documents
           [XU-SPL-LIST]

----- Print A Spool Document
           [XU-SPL-PRINT]

----- Spooler Site Parameters Edit
           [XU-SPL-SITE]
```

5.2.9 XUSPY

Figure 13: XUSPY—Menu Tree Diagram: Sample from OAKTST “Gold” Account



		T]
		ISO's Terminated User Report [XUSEC ISO TERMINATIO N REPORT]
		Up Arrow Delimited Terminatio n Report [XUSEC UP ARROW TERM REPORT]
----- Fileman -----		Inquiry to
Security		a User's
Menu		File
[XUFILEACC		Access
ESS SEC		[XUFILEINQ
OFCR]		UIRY]
		List
		Access to
		Files by
		File
		number
		[XUFILELIS
		T]
		Print
		Users
		Files
		[XUFILEPRI
		NT]
		Delete
		Users'
		Access to
		a Set of
		Files
		[XUFILESET
		DELETE]
		Single
		file
		add/delete
		for a user
		[XUFILESIN
		GLEADD]
----- Fileman -----		Print File
Access for		Entries
the ISO		[DIPRINT]
[XUDIACCES		
S FOR ISO]		
		Search
		File

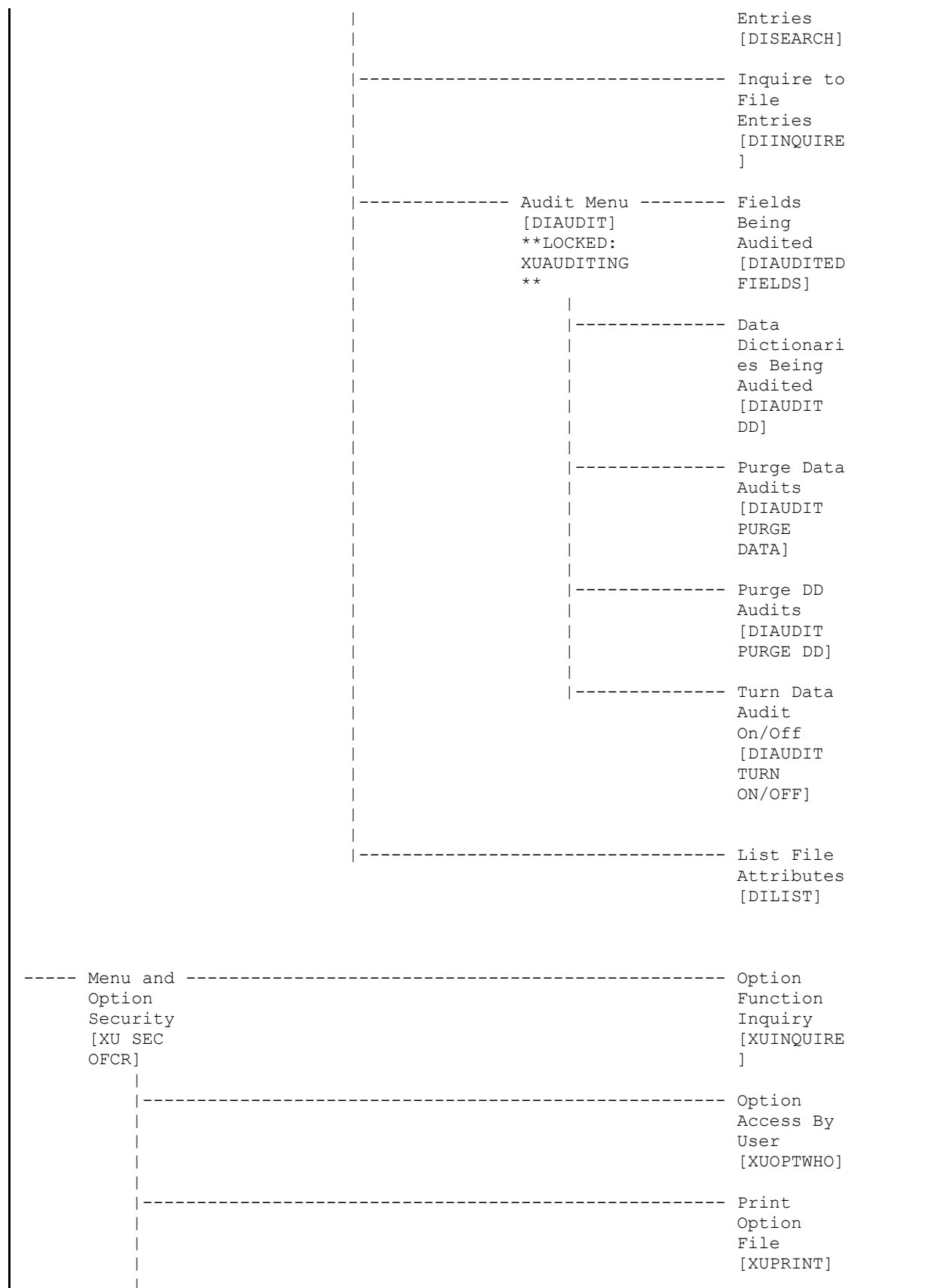


	Diagram Menus [XUUSERACC]
	Abbreviate d Menu Diagrams [XUUSERACC 2]
	Show Users with a Selected primary Menu [XUXREF-2]
	List users holding a certain key [XQSHOKEY]
	Keys For a Given Menu Tree [XQLOCK2]
Secure Menu Delegation [XQSMD SEC OFCR]	Show a Delegate's Options [XQSMD SHOW]
	List Delegated Options and their Users [XQSMD BY OPTION]
	Print All Delegates and their Options [XQSMD BY USER]
	Option Audit Display [XUOPTDISP]
	Audited Options Log [XUOPTLOG]
	Audited

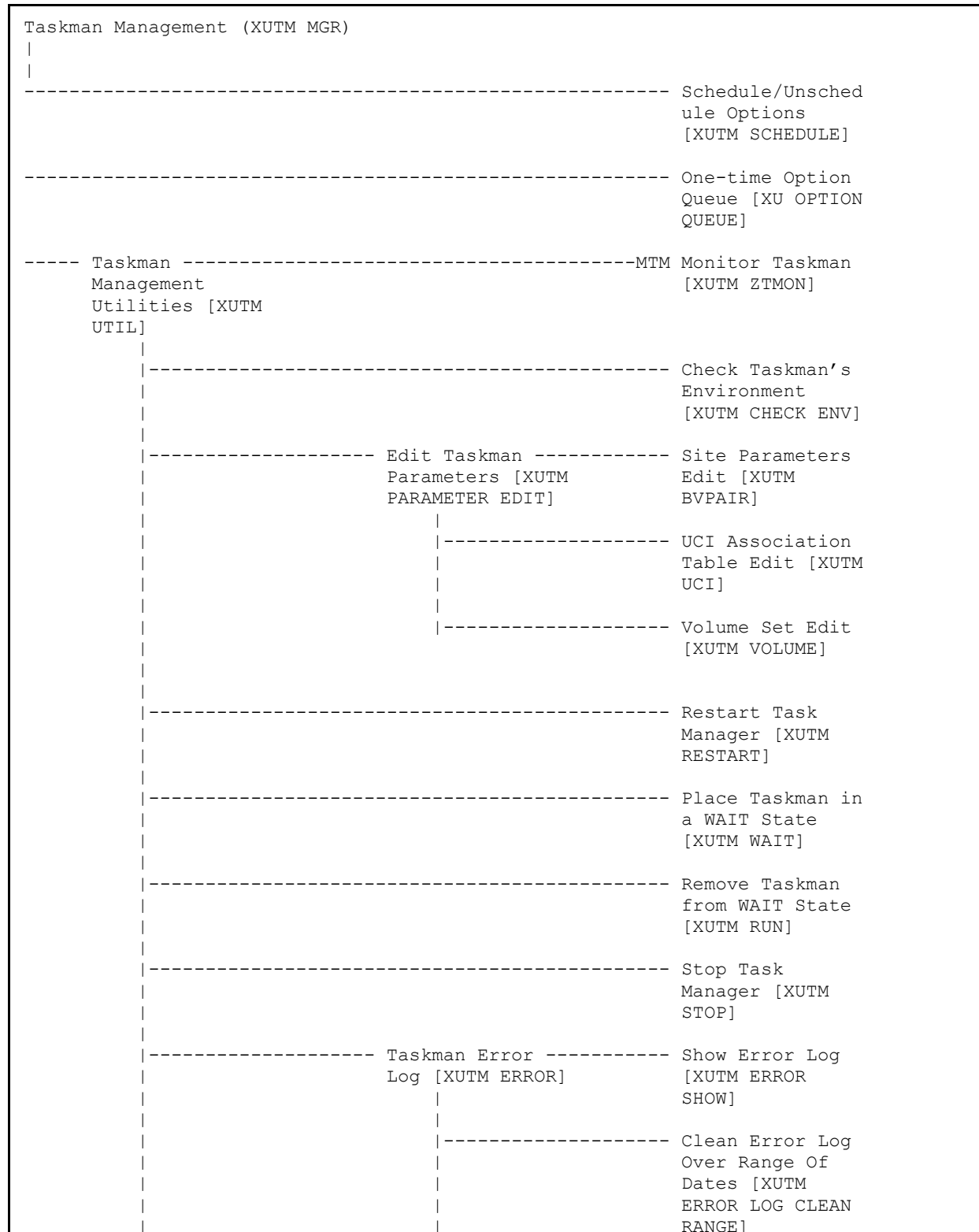
		Options Purge [XUOPTPURG E]
----- System -----		Establish
Audit Menu		System
[XUAUDIT		Audit
MAINT]		Parameters
		[XUAUDIT]
	-----	Display
		the Kernel
		Audit
		Parameters
		[XU-SPY-SH
		OW]
	-----	Server
		audit
		display
		[XUSERVDIS
		P]
	-----	Super
		Search
		Message
		File [XM
		SUPER
		SEARCH]
		**LOCKED:
		XM SUPER
		SEARCH**
	-----	Bulletin
		Selection
		[DG
		BULLETIN
		LOCAL]
	-----	Patient
		Inquiry
		[DG
		PATIENT
		INQUIRY]
	-----	MAS
		Parameter
		Entry/Edit
		[DG
		PARAMETER
		ENTRY]
----- Access -----		Display of
Monitor		Programmer
Menu		Mode Entry
[XUMNACCES		List
S]		[XUPMDISP]
	-----	Programmer
		Mode Entry

		Log Purge [XUPMPURGE]
	-----	Failed Access Attempts Log [XUFAIL]
	-----	Failed Access Attempts Log Purge [XUFPURGE]
	-----	Device Failed Access Attempts [XUFDEV]
	-----	User Failed Access Attempts [XUFDISP]
	-----	Print Sign-on Log [XUSC LIST]
	-----	Direct-mod e Programmer Access Audit [XUPROGAUD]
----- Security Officer Menu [DG SECURITY OFFICER MENU] **LOCKED: DG SECURITY OFFICER**	-----	Display User Access to Patient Record [DG SECURITY DISPLAY LOG] **LOCKED: DG SECURITY OFFICER**
	-----	Enter/Edit Patient Security Level [DG SECURITY ENTER/EDIT] **LOCKED:

	DG SENSITIVITY**
	Purge Non-sensitive Patients from Security Log [DG SECURITY PURGE PATIENTS] **LOCKED: DG SECURITY OFFICER**
	Purge Record of User Access from Security Log [DG SECURITY PURGE LOG] **LOCKED: DG SECURITY OFFICER**
	EXP ISO Sensitive Records Report-Export [DG SENSITIVE RCDS RPT-EXPORT]
	FMT ISO Sensitive Records Report-Formatted Report [DG SENSITIVE RCDS RPT-FORMAT]

5.2.10 XUTM MGR

Figure 14: XUTM MGR—Menu Tree Diagram: Sample from OAKTST “Gold” Account

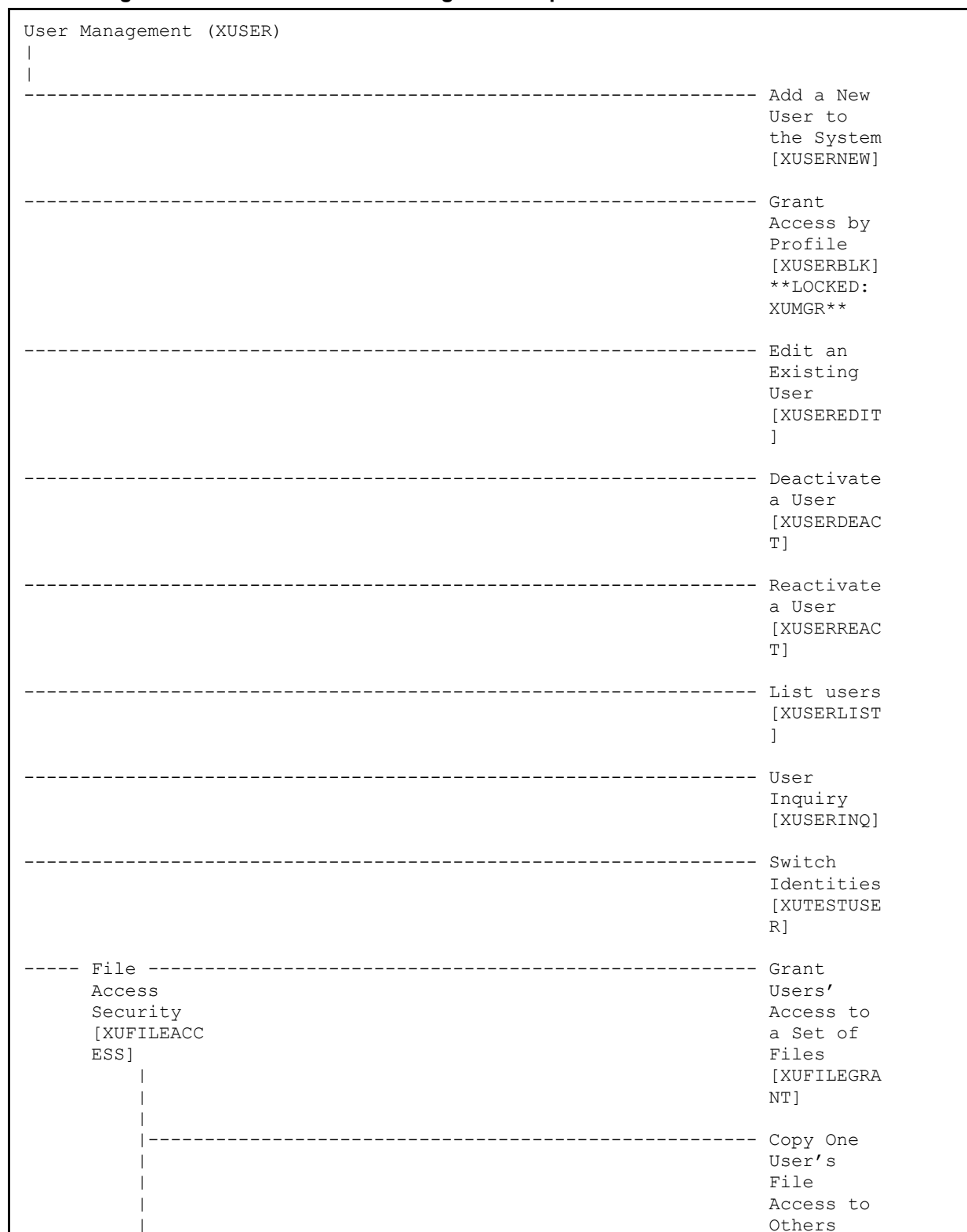


	-----	Purge Error Log Of Type Of Error [XUTM ERROR PURGE TYPE]
	-----	Delete Error Log [XUTM ERROR DELETE]
	-----	List Error Screens [XUTM ERROR SCREEN LIST]
	-----	Add Error Screens [XUTM ERROR SCREEN ADD]
	-----	Edit Error Screens [XUTM ERROR SCREEN EDIT]
	-----	Remove Error Screens [XUTM ERROR SCREEN REMOVE]
	-----	Clean Task File [XUTM CLEAN]
	-----	Change tasks device [XUTM RP]
	-----	Problem Device Clear [XUTM PROBLEM CLEAR]
	-----	Problem Device report. [XUTM PROBLEM DEVICES]
	-----	Repoint waiting tasks to a new port/device [XUTM REPNT]
	-----	SYNC flag file control [XUTM SYNC]
-----	-----	List Tasks [XUTM INQ]
-----	-----	Dequeue Tasks [XUTM DQ]
-----	-----	Requeue Tasks [XUTM REQ]

-----	Delete Tasks [XUTM DEL]
-----	Print Options that are Scheduled to run [XUTM BACKGROUND PRINT]
-----	Cleanup Task List [XUTM TL CLEAN]
-----	Print Options Recommended for Queueing [XUTM BACKGROUND RECOMMENDED]

5.2.11 XUSER

Figure 15: XUSER—Menu Tree Diagram: Sample from OAKTST “Gold” Account



	[XUFILECOPY]
-----	Single file add/delete for a user [XUFILESINGLEADD]
-----	Inquiry to a User's File Access [XUFILEINQUIRY]
-----	List Access to Files by File number [XUFILELIST]
-----	Print Users Files [XUFILEPRINT]
-----	Delete Users' Access to a Set of Files [XUFILESETDELETE]
-----	Remove All Access from a Single User [XUFILEREMOVEALL]
-----	Take away All access to a File [XUFILEDELETE]
-----	Assign/Delete a File Range [XUFILERANGEASSIGN]
-----	Clear Electronic signature

AL TRAINEE REPORTS]	[XU-CLINIC AL LOCAL REPORTS]	[XU-CLINIC AL ACTIVE TRAINEE]
		----- List of
		All
		Registered
		Trainees
		[XU-CLINIC
		AL TRAINEE
		LIST]
		----- List of
		Inactive
		Registered
		Trainees
		[XU-CLINIC
		AL
		INACTIVE
		TRAINEE]
		----- Total
		Count of
		Registered
		Trainees
		[XU-CLINIC
		AL TRAINEE
		DB COUNT]
	----- Trainee -----	Trainee
	Transmissi	Transmissi
	on Reports	on Report
	to OAA	by Date
	[XU-CLINIC	[XU-CLINIC
	AL TRANS	AL TRAINEE
	REPORTS]	TRANSA]
		----- Trainee
		Transmissi
		on Report
		by Range
		[XU-CLINIC
		AL TRAINEE
		TRANSC]
		----- Trainee
		Transmissi
		on Report
		Selectable
		Items
		[XU-CLINIC
		AL TRAINEE
		TRANSB]
-----		Person
		Class Edit
		[XU-PERSON
		CLASS
		EDIT]

-----	Reprint Access agreement letter [XUSERREPR INT]
-------	--

5.2.12 Parent of Queuable Options [ZTMQUEUABLE OPTIONS]

Figure 16: ZTMQUEUABLE OPTIONS—Menu Tree Diagram: Sample from OAKTST “Gold” Account

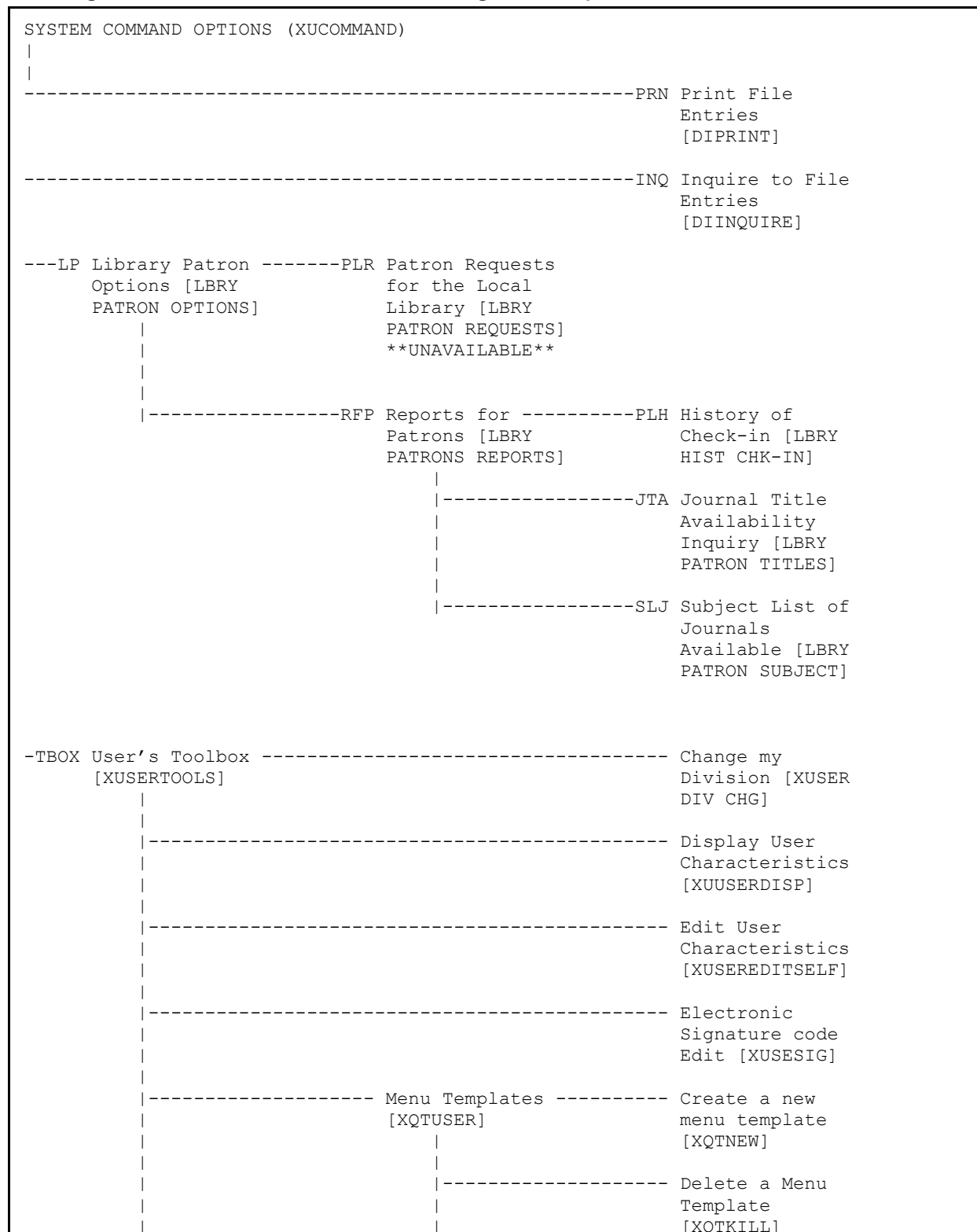
```
Parent of Queuable Options (ZTMQUEUABLE OPTIONS)
```

```
|  
|
```

```
----- Automatic Deactivation of Users  
          [XUAUTODEACTIVATE]  
  
----- Clear all users at startup  
          [XUSER-CLEAR-ALL]  
  
----- Copy the compiled menus from the  
          print server [XU-486 MENU COPY]  
  
----- Error trap Auto clean [XUERTRP  
          AUTO CLEAN]  
  
----- Errors Logged in Alpha/Beta Test  
          (QUEUED) [XQAB ERROR LOG XMIT]  
  
----- Monitor Routines for Changes  
          [XTRMONITOR]  
  
----- Non-interactive Build Primary  
          Menu Trees [XQBUILDTREEQUE]  
  
----- One-time Option Start (Internal  
          Use Only) [XU OPTION START]  
  
----- Print 1 occurrence of each error  
          for T-1 (QUEUE) [XUERTRP PRINT  
          T-1 1 ERR]  
  
----- Print 2 occurrences of errors on  
          T-1 (QUEUED) [XUERTRP PRINT T-1 2  
          ERR]  
  
----- Purge of the %ZUA global.  
          [XUSAZONK]  
  
----- Purge old spool documents  
          [XU-SPL-PURGE]  
  
----- Purge Sign-On log [XUSCZONK]  
  
----- Queuable Task Log Cleanup [XUTM  
          QCLEAN]  
  
----- Unlinked payers notification  
          [IBCNE EIV PAYER LINK NOTIFY]
```

5.2.13 SYSTEM COMMAND OPTIONS [XUCOMMAND]

Figure 17: XUCOMMAND—Menu Tree Diagram: Sample from OAKTST “Gold” Account



					--VA View Alerts [XQALERT]
					Continue [XUCONTINUE]
					Copy Routines to Another UCI [AICI MOVE ROUTINE]
					Dispense Drug Look-Up [PSJU INQ DRUG]
					Halt [XUHALT]
----- MailMan Menu -----					NML New Messages and Responses [XMNEW]
					RML Read/Manage Messages [XMREAD]
					SML Send a Message [XMSEND]
					Query/Search for Messages [XMSEARCH]
					AML Become a Surrogate (SHARED,MAIL or Other) [XMASSUME]
		----- Personal -----			User Options
		Preferences [XM			Edit
		PERSONAL MENU]			[XMEDITUSER]
					Banner Edit
					[XMBANNER]
					Surrogate Edit
					[XMEDITSURR]
					Message Filter
					Edit [XM FILTER
					EDIT]
					Delivery Basket
					Edit [XM
					DELIVERY BASKET
					EDIT]
					GML Enroll in (or
					Disenroll from)
					a Mail Group
					[XMENROLL]
					Personal Mail

		Group Edit [XMEDITPERSGROUP]
		----- Forwarding Address Edit [XMEDITFWD] **LOCKED: XMNET**
	----- Other MailMan Functions [XMOTHER]	----- Report on Later'd Messages [XMLATER-REPORT]
		----- Change/Delete Later'd Messages [XMLATER-EDIT]
		----- Mailbox Contents List [XMBASKLIST]
		-----LML Load PackMan Message [XMPACK] **LOCKED: XUPROGMODE**
	----- Help (User/Group Info., etc.) [XMHELP]	----- User Information [XMHELPUSER]
		----- Group Information [XMHELPGROUP]
		----- Remote User Information [XMHELPLNK]
		----- New Features in MailMan [XM-NEW-FEATURES]
		----- General MailMan Information [XMHELPALL]
		----- Questions and Answers on MailMan [XMHELPQUEST]
		----- Manual for MailMan Users [XMHELP-ON-LINE- USER_MANUAL]
----- NOIS [FSC MENU		----- New Call [FSC

NOIS]	NEW CALL]
-----	Edit Call [FSC EDIT CALL]
-----	Close Call [FSC CLOSE CALL]
-----	View Calls [FSC VIEW CALLS]
-----	List Calls [FSC LIST CALLS]
-----	Query Calls [FSC QUERY CALLS]
-----	Reports [FSC REPORTS]
-----	File Setup [FSC FILE SETUP]
-----	Schedules/Events [FSC EVENTS]
-----	Restart Session [XURELOG]
-----	Restore Other Jobs you Own [AICI RJD OWN JOBS]
-----	Swap to TST uci [AICI SUP UCI SWAP]
-----	Time [XUTIME]
-----	Where am I? [XUSERWHERE]

5.2.14 Extended-Action Options

Table 19: Protocols—Extended-Action Options

Option	Description
XU USER SIGN-ON	This is a protocol option to link other software applications that want to know about a user signon event. The protocols <i>must not</i> READ/WRITE to the screen because it may be doing a GUI signon. They can set text that is displayed to the user by calling SET^XUS1A(string) The first character should be a ! to cause the text to be placed on a new line. DUZ will be defined but other variables may <i>not</i> be. It is called from the XUS1A routine.
XU USER START-UP	Added with Kernel Patch XU*8.0*593, this is a protocol option used exclusively during a VistA user signon event. Items attached to this option are “ TYPE: action ” options in the OPTION (#19) file, which can be used for software-specific actions that prompt users for input upon VistA signon before their Primary Menu Option is displayed. Unlike the User sign-on event [XU USER SIGN-ON] option, it can provide interactive prompting to users. It is <i>not</i> used for GUI signon. It is called from the XQ12 routine.
XU USER TERMINATE	This is a protocol option to link other software applications that want to know about a USER TERMINATE event. Other software can attach to this protocol option and they will be called when a user is terminated. The call is just after the users Access and Verify codes have been removed. DUZ will be the person that is running the terminate option. XUIFN points to the NEW PERSON (#200) file entry that is being terminated. Returns selected File #200 data to XUSR(field name) array for NEW PERSON components. It is called in the XUSTERM routine from the XUSERP routine.

5.2.15 Protocols

Table 20: Protocols—Lock Manager Utility

Option	Description
XULM DISPLAY SYSTEM LOCKS	This List Template action protocol displays a list of the system locks. System locks are generally ignored within the Lock Manager. They are locks held by infrastructure packages, such as the Kernel or HL7 package.
XULM LOCK MANAGER MENU	This is the protocol menu for the Kernel Lock Manager List Manager screen.
XULM REFRESH LOCKS	This List Manager action protocol re-builds the list of locks by reading the lock table.

Option	Description
XULM SELECT LOCK	This action allows a user to select a lock from the list. It then displays a new screen with detailed information about the lock.
XULM GO TO	This List Manager action asks the user where he wants to go to on the list and then shifts the display to that location.
XULM SORT/SCREEN LOCKS	This action provides the user with several options for how the list locks should be displayed. The options include sorting the list by patient name, sorting the list by the user name, sorting the list by the lock string, or screening the entries by lock reference, which means that only locks that relate to a specific file will be included in the display.
XULM SELECT NODE	This action allows the user to select either a single computer node or all the computer nodes. If the user selects a single node then the display of locks will include only locks placed by processes running on that node.
XULM SINGLE LOCK MENU	This is the protocol menu for the XULM DISPLAY SINGLE LOCK List Template.
XULM TERMINATE PROCESS	This List Manager action protocol will terminate the process that is currently selected.

5.2.16 Server Options

Table 21: Options—Server Options

Option	Description
XQAB ERROR LOG SERVER	<p>This server option is used to store data sent by the Errors Logged in Alpha/Beta Test (QUEUED) [XQAB ERROR LOG XMIT] option back to the developing site (usually an OIFO). As a server request to which the mail messages containing data on the types and frequencies of errors associated with a software application in alpha or beta test, this option starts a routine that processes the message contents and stores the data in the XQAB ERRORS LOGGED (#8991.5) file (^XTV(8991.5,...)). The contents of the file can be processed using several options or by the use of VA FileMan directly. The file contains data on the:</p> <ul style="list-style-type: none">• Type of error.• Routine involved.• Option that was in use at the time of the error.• Date.• Number of errors for that date, by site (and if multiple Error Traps are used at a site, by the VOL,UCI).
XQSCHK	<p>This server option is used to test other server options by examining the host OPTION (#19) file and returning the data associated with the target server option. A message is sent to the host site with the name of the server option to be examined on the first line of the message.</p>
XQSPING	<p>This is a PING server option that works like PING under TCP/IP. If you send a message to this sever option it sends it back to you, thereby showing that the network mail channel is open.</p>
XU-PING-SERVER	<p>This is a PING server option that works like PING under TCP/IP. If you send a message to this server option, it sends it back to you.</p>

5.2.17 Options Attached to Menus for Other Software

Table 22: Options—Attached to Menus for Other Software

Option	Description
XT-KERMIT SPOOL DL	<p>“Download a Spool file entry”; attached to Kernel Toolkit’s Kermit menu [XT-KERMIT MENU] menu.</p>

5.2.18 DEA ePCS Utility

Kernel Patch XU*8.0*580 was created in support of the Drug Enforcement Agency (DEA) e-Prescribing of Controlled Substances (ePCS) Utility using Public Key Infrastructure (PKI). The DEA ePCS Utility consists of the following standalone menu and options:

Table 23: Options—DEA ePCS Utility

Option Name	Description
XU EPCS UTILITY FUNCTIONS	<p>The ePCS DEA Utility Functions [XU EPCS UTILITY FUNCTIONS] menu is the main menu for the DEA ePCS Utility. This menu includes the following options to print reports and utility functions:</p> <ul style="list-style-type: none"> • Print DEA Expiration Date Null [XU EPCS EXP DATE] • Print DISUSER DEA Expiration Date Null [XU EPCS DISUSER EXP DATE] • Print DEA Expiration Date Expires 30 days [XU EPCS XDATE EXPIRES] • Print DISUSER DEA Expiration Date Expires 30 days [XU EPCS DISUSER XDATE EXPIRES] • Print Prescribers with Privilege [XU EPCS PRIVS] • Print DISUSER Prescribers with Privileges [XU EPCS DISUSER PRIVS] • Print PSDRPH Key Holders [XU EPCS PSDRPH] • Print Setting Parameters Privileges [XU EPCS SET PARMS] • Print Audits for Prescriber Editing [XU EPCS PRINT EDIT AUDIT] • Task Changes to DEA Prescribing Privileges Report [XU EPCS LOGICAL ACCESS] • Task Allocation Audit of PSDRPH Key Report [XU EPCS PSDRPH AUDIT] • Allocate/De-Allocate of PSDRPH Key [XU EPCS PSDRPH KEY] • Edit Facility DEA# and Expiration Date [XU EPCS EDIT DEA# AND XDATE]
XU EPCS EXP DATE	<p>The Print DEA Expiration Date Null [XU EPCS EXP DATE] option prints all active users with an unpopulated DEA# and DEA EXPIRATION DATE. This option prints the following data:</p> <ul style="list-style-type: none"> • NAME • DEA# • DEA EXPIRATION DATE
XU EPCS DISUSER EXP DATE	<p>The Print DISUSER DEA Expiration Date Null [XU EPCS DISUSER EXP DATE] option prints all DISUSERed users with an unpopulated DEA# and DEA EXPIRATION DATE. This option</p>

Option Name	Description
	<p>prints the following data:</p> <ul style="list-style-type: none"> • NAME • DEA# • TERMINATION DATE • DEA EXPIRATION DATE
XU EPCS XDATE EXPIRES	<p>The Print DEA Expiration Date Expires 30 days [XU EPCS XDATE EXPIRES] option prints all active users with DEA # and where the DEA EXPIRATION DATE expires within 30 days. This option prints the following data:</p> <ul style="list-style-type: none"> • NAME • DEA# • DEA EXPIRATION DATE
XU EPCS DISUSER XDATE EXPIRES	<p>The Print DISUSER DEA Expiration Date Expires 30 days [XU EPCS DISUSER XDATE EXPIRES] option prints all DISUSERed users with DEA # and where the DEA EXPIRATION DATE expires within 30 days. This option prints the following data:</p> <ul style="list-style-type: none"> • NAME • DEA# • DEA EXPIRATION DATE
XU EPCS PRIVS	<p>The Print Prescribers with Privileges [XU EPCS PRIVS] option prints all active users who have privileges to any of the SCHEDULEs II through V and who have a DEA# or VA#. This option prints the following data:</p> <ul style="list-style-type: none"> • NAME • DUZ • DEA# • VA# • SCHEDULESs
XU EPCS DISUSER PRIVS	<p>The Print DISUSER Prescribers with Privileges [XU EPCS DISUSER PRIVS] option prints all DISUSERed users who have privileges to any of the SCHEDULEs II through V and who have a DEA# or VA#. This option prints the following data:</p> <ul style="list-style-type: none"> • NAME • DUZ • DEA# • TERMINATION DATE • VA# • SCHEDULESs
XU EPCS PSDRPH	<p>The Print PSDRPH Key Holders [XU EPCS PSDRPH] option prints all active users holding the PSDRPH security key. This</p>

Option Name	Description
	<p>report sorts by Division, and within DIVISION, it sorts by NAME. This option prints the following data:</p> <ul style="list-style-type: none"> • NAME • DUZ • GIVEN BY (Person Who Assigned Key) • DATE GIVEN (Date Assigned)
XU EPCS SET PARMS	The Print Setting Parameters Privileges [XU EPCS SET PARMS] option prints all active users holding the XUEPCSEDT security key. This option identifies individuals responsible for setting the parameters.
XU EPCS PRINT EDIT AUDIT	The Print Audits for Prescriber Editing [XU EPCS PRINT EDIT AUDIT] option prints information related to the editing of prescriber information.
XU EPCS LOGICAL ACCESS	<p>The Task Changes to DEA Prescribing Privileges Report [XU EPCS LOGICAL ACCESS] option prints the setting or change to DEA prescribing privileges related to issuance of a controlled substance prescription.</p> <p>This option only prints data from the previous day and with data that has been modified. The data is retrieved from the XUEPCS DATA (#8991.6) file.</p> <p>This option should be scheduled to run on a daily basis.</p>
XU EPCS PSDRPH AUDIT	<p>The Task Allocation Audit of PSDRPH Key Report [XU EPCS PSDRPH AUDIT] option prints the allocation of the PSDRPH security key.</p> <p>This option only prints data from the previous day and with data that has been modified. The report prints data for the archive XUEPCS PSDRPH AUDIT (#8991.7) file.</p> <p>This option should be scheduled to run on a daily basis.</p>
XU EPCS PSDRPH KEY	The Allocate/De-Allocate of PSDRPH Key [XU EPCS PSDRPH KEY] option allows users to allocate or de-allocate the PSDRPH security key.

5.3 Options—Listed Alphabetically by Name

Each option listed in this section includes the following information:

- Option Name
- Option Text
- Type
- Routine/Action
- Description (including any lock, entry action, and exit action information).

5.3.1 Kernel


The following option namespaces are distributed with Kernel and Kernel Toolkit: “XDR*,” “XI*,” “XPAR*,” “XPD*,” “XQ*,” and “XU*” (listed alphabetically by option name):

Table 24: Options—Exported Kernel Options

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XDR ADD VERIFIED DUPS	Add Verified Duplicate Pair	Run Routine	Routine: XDRMADD	This option adds a pair of records that are <i>not</i> already identified as potential or verified duplicates to the DUPLICATE RECORD (#15) file. The pair goes through comparisons (Duplicate Tests). The comparison results in a computed value based on similarity of one record to the other. The resulting value is measured against the Potential Duplicate Threshold Percentage. When the record pair scores evaluate above this percentage, they are considered to be potential duplicates and are placed in the DUPLICATE RECORD (#15) file. If the user has the XUMGR security key, the user has the option to bypass the Potential Duplicate Threshold Percentage thereby adding the pair directly to the DUPLICATE RECORD (#15) file.
XDR ANCILLARY REVIEW	Ancillary Data Review	Run Routine	Routine: XDRMRG0	This option is used by the ancillary services to verify potential duplicates. This option is used when a user is

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<i>not</i> notified by an alert.
XDR APPROVE FOR MERGE	Approve verified duplicates for merging	Run Routine	Routine: APPROVE^XDRMERGA	This option is used by the coordinator or team responsible for Duplicate Resolution to give final approval for selected duplicate pairs to be included in the next merge process.
XDR AUTO MERGE	Automatically Merge all Ready Verified Duplicates	Action	Entry Action: s XDRM("AUTO")="" D EN1^XDRMAIN K XDRM	This option is used to non-interactively merge all verified duplicate pairs that are ready to be merged. This option may take some time, depending on how many verified duplicate pairs there are to be merged.
XDR CHECK MERGE PROCESS STATUS	Check Merge Process Status (reverse order)	Run Routine	Routine: CHECK^XDRMERG2	This option indicates the status of a selected merge process (or all of them) displaying the information provided by the last checkpoint during its operation. This information includes the file that is being processed, which stage it is in, and the last internal entry processed. Kernel Toolkit Patch XT*7.3*46 reversed the order of printing from last to first.
XDR CHECK PAIR	Check Pair of Records to see if Duplicates	Run Routine	Routine: XDRDCOMP	This option allows the input of two records, and then run them through the Duplicate Resolution software to see what their Match Score would be. It does <i>not</i> add records to the DUPLICATE RECORD

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				(#15) file.
XDR DISPLAY SEARCH STATUS	Display Search Status	Run Routine	Routine: XDRDSTAT	<p>This option displays the status of a selected search for duplicates. It is locked with the XDR security key.</p> <p>The status can be any of the following:</p> <ul style="list-style-type: none"> • RUNNING • HALTED • ERROE(STOP) • COMPLETED <p>If you are checking the status to make sure the Duplicate Checking software is running you <i>must</i> make sure that <i>not</i> only is the STATUS stated to be RUNNING but also that the COUNT, which is the number of records that have been checked for duplicates, is also steadily increasing. If the COUNT is <i>not</i> increasing notify your site manager.</p>
XDR EDIT DUP RECORD STATUS	Edit Duplicate Record Status	Run Routine	Routine: XDRDEDT	<p>This option is used to edit the STATUS (#.03) field of the DUPLICATE RECORD (#15) file entry. It would be used when a pair was identified as Verified Duplicate or Verified Not A Duplicate and you want to change the status back to Potential Duplicate, Unverified.</p>
XDR EDIT DUP RESOLUTION	Edit Duplicate Resolution	ScreenMa n		<p>This option edits the values used by the Duplicate Resolution</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
FILE	File			software for determining whether to add an entry or <i>not</i> . Once you find the sequence of scores that best fit your facility, it is recommended that you do <i>not</i> change these values.
XDR FIND POTENTIAL DUPLICATES	Find Potential Duplicates for an Entry in a File	Run Routine	Routine: XDRDFPD	This option finds all potential duplicates for an entry in a file. Any potential duplicate pairs are then added to the DUPLICATE RECORD (#15) file. The user is prompted to enter the file and then to select an entry within that file.
XDR MAIN MENU	Duplicate Resolution System	Menu	Exit Action: W:\$D(IOF) @IOF K AUPNLK("ALL") Entry Action: W:\$D(IOF) @IOF W !,"Duplicate Resolution System Menu",! S AUPNLK("ALL")=""	This is the Duplicate Resolution System main menu. It is locked with the XDR security key. It includes the following options: <ul style="list-style-type: none"> • XDR OPERATIONS MENU • XDR UTILITIES MENU • XDR MANAGER UTILITIES  REF: For more information on the XDR* options, see the <i>Duplicate Record Merge: Patient Merge</i> documentation located on the VDL at: http://www.va.gov/vdl/application.as

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				p?appid=2
XDR MANAGER UTILITIES	Manager Utilities	Menu	Exit Action: W:\$D(IOF) @IOF W !,"Duplicate Resolution System Menu",! Entry Action: W:\$D(IOF) @IOF W !,"Duplicate Manager Utilities Menu",!	<p>This menu controls access to various manager utilities. These utilities include: Automatically merging ready to merge duplicates, Editing the DUPLICATE RESOLUTION (#15.1) file, and Purging the DUPLICATE RECORD (#15) File. This option is locked with the XDRMGR security key. It includes the following options:</p> <ul style="list-style-type: none"> • XDR EDIT DUP RESOLUTION FILE • XDR PRELIMINARY SCAN • XDR PRELIMINARY SCAN LIST • XDR SEARCH ALL • XDR MERGE READY DUPLICATES • XDR STOP MERGE PROCESS • XDR RESTART MERGE PROCESS • XDR PURGE • XDR PURGE2
XDR MERGE READY DUPLICATES	Schedule Process to Merge Verified Duplicates	Run Routine	Routine: QUE^XDRMERG0	This option merges all entries that currently are ready to merge verified duplicate pairs that are <i>not</i> included in another merge process.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XDR MERGE SELECTED PAIR	Merge Selected Verified Duplicate Pair	Run Routine	Routine: EN2^XDRMAIN	This option is used to select a certain ready to merge verified duplicate pair for merging.
XDR OPERATIONS MENU	Operations	Menu	Exit Action: W:\$D(IOF) @IOF W !,"Duplicate Resolution System Menu",! Entry Action: W:\$D(IOF) @IOF W !,"Duplicate Resolution Operations Menu",!	This menu contains options for running duplicate check searches and verifying and merging duplicate pairs. It includes the following options: <ul style="list-style-type: none"> • XDR DISPLAY SEARCH STATUS • XDR APPROVE FOR MERGE • XDR VERIFY ALL • XDR ANCILLARY REVIEW • XDR CHECK MERGE PROCESS STATUS • XDR STOP MERGE PROCESS
XDR PRELIMINARY SCAN	Preliminary Scan of File for errors	Run Routine	Routine: XDRDPREL	This option scans through a file selected for Duplicate Resolution to check for entries within the file that are missing identifiers (which are presumed to be significant data elements) or have other problems.
XDR PRELIMINARY SCAN LIST	List file entries identified in preliminary scan	Run Routine	Routine: XDRDPRE1	This option is used to generate a list of those entries in the file that were identified as lacking a zero node, having a bad SSN value, or missing one or more of the

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				identifiers in the file.
XDR PRINT LIST	Print List of File Duplicates	Run Routine	Routine: XDRDLIST	This option prints a list of file duplicates. You can choose to print potential duplicates, verified ready to merge duplicates, not ready to merge verified duplicates, and merged verified duplicates. You can also choose to print a brief listing or a captioned listing.
XDR PURGE	Purge Duplicate Record File	Run Routine	Routine: XDRDPERGE	This option is used to purge entries in the DUPLICATE RECORD (#15) file; you can purge just the Potential Duplicates, the Verified Non-Duplicates, or both. This option should only be used by the site manager.
XDR PURGE2	Purge Merge Process File	Run routine	Routine: XDRDPERG2	This option is used to purge selected entries in the XDR MERGE PROCESS (#15.2) file. This option should only be used by the site manager.
XDR RESTART MERGE PROCESS	Restart a merge process	Run routine	Routine: RESTART^XDRM ERGA	This option is used to schedule the restart of a merge process at the current time or at some point in the future.
XDR SCAN POSSIBLE DUPLICATES	Scan Possible Duplicates	Run routine	Routine: XDRDDATA	This option provides a rapid scan of possible duplicates by listing the zero node of the PATIENT (#2) file for each individual. If the output is <i>not</i> queued to a printer, then the data will be

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				sent to the VA FileMan Browser for examination.
XDR SEARCH ALL	Start/Halt Duplicate Search	Run routine	Routine: XDRDQUE	This utility searches a selected file for potential duplicates. It provides a choice of two methods. A Basic search starts at the beginning of a file and checks each record against a selected subgroup of potential duplicates. A new search takes records that have been edited and checks them against a select subgroup of records. This is a tasked job that can be started and halted until the entire file has been checked.
XDR STOP MERGE PROCESS	STOP an active merge process	Run routine	Routine: STOP^XDRMERG A	This option is used to stop a currently running merge process and any associated threads.
XDR TALLY STATUS FIELDS	Tally STATUS and MERGE STATUS fields	Run routine	Routine: XDRCNT	This option produces a summary report of how many records are Verified Duplicates, Verified Not Duplicates, or Potential Duplicates, Unverified. The total number of records merged and ready to be merged will be displayed.
XDR UTILITIES MENU	Utilities	Menu	Exit Action: W:\$D(IOF) @IOF W !, "Duplicate Resolution System Menu", ! Entry Action: W:\$D(IOF) @IOF W	This menu gives access to various Duplicate Resolution Utilities. It includes the following options: <ul style="list-style-type: none"> • XDR ADD


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
			!, "Duplicate Resolution Utilities Menu", !	VERIFIED DUPS <ul style="list-style-type: none"> • XDR CHECK MERGE PROCESS STATUS • XDR CHECK PAIR • XDR DISPLAY SEARCH STATUS • XDR EDIT DUP RECORD STATUS • XDR FIND POTENTIAL DUPLICATES • XDR PRINT LIST • XDR SCAN POSSIBLE DUPLICATES • XDR TALLY STATUS FIELDS • XDR VIEW DUPLICATE RECORD
XDR VALID CHECK	Identify Potential Merge Problems	Run Routine	Routine: EN^XDRDVAL1	This option identifies potential merge problems.
XDR VERIFY ALL	Verify Potential Duplicates	Run Routine	Routine: XDRDPICK	This option is used to mark a potential duplicate as an actual duplicate (or mark a potential duplicate pair as VERIFIED - NOT DUPLICATES). The "from" and "to" records are identified and all top-level PATIENT (#2) file fields resolved, and a bulletin generated informing the Verified Duplicate mail group of the actual duplicate. If there is no interactive package merge that needs to take place,

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				the merge process will also occur.
XDR VERIFY SELECTED PAIR	Verify Selected Potential Duplicate Pair	Run routine	Routine: EN3^XDRMAIN	This option is used to select a Potential Duplicate pair and verify as either Verified Non-Duplicate or Verified Duplicate. The merge process will then be initiated if there are no package interactive merges that need to occur.
XDR VIEW DUPLICATE RECORD	View Duplicate Record Entries	Inquire		This option is used to view Duplicate Record entries in a captioned format.
XIP SYNCHRONIZE COUNTY	Queueable Synchronize County Multiple With 5.13	Action	Entry Action: D DEQUE^XIPSYNC	This option synchronizes the master COUNTY CODE (#5.13) file and the STATE (#5) file's COUNTY Multiple. No output device is needed. It is recommended that this option have a scheduling frequency of every three months, at a time when little to no patient registration activity will be taking place.
XIP ZIP CODE LIST	ZIP Code List	Print		This option produces a report of selected ZIP codes so that they can be compared to the U.S. Postal Service's website located at: http://www.usps.com/zip4/citytown.htm
XIPMAILSERVE R	Check file 5.13 & file 5	Server	Routine: XIPMAIL	This is a server option that checks the COUNTY CODE


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				(#5.13) and STATE (#5) files. It also checks the STATE (#5) file for any states that are <i>not</i> recognized by the Corporate Franchise Data Center (CFD). Server Fields: <ul style="list-style-type: none"> • SERVER ACTION: RUN IMMEDIATELY • SERVER MAIL GROUP: XIP SERVER RESPONSE
XIPSRVR	Postal Code Update Server	Server	Routine: E1^XIPSRVR	This option takes the data contained within a message on FORUM and modifies the POSTAL CODE (#5.12) file as follows: <ul style="list-style-type: none"> • Adds a new postal code • Inactivates the postal code • Edits the postal code Server Fields: <ul style="list-style-type: none"> • SERVER ACTION: RUN IMMEDIATELY • SERVER AUDIT: NO • SERVER REPLY: NO REPLY • SUPRESS BULLETIN: YES • SAVE REQUEST: SAVE REQUEST IN POSTMASTER BASKET
XLFIPV	Convert any			(Released with Patch

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
CONVERT	IP address per system settings			XU*8.0*605)
XLFIPV FORCEIP4	Convert any IP address to IPv4			(Released with Patch XU*8.0*605)
XLFIPV FORCEIP6	Convert any IP address to IPv6			(Released with Patch XU*8.0*605)
XLFIPV IPV4 IPV6 MENU	IPV—IPv4 and IPv6 Address Tools	Menu		This option was released with Patch XU*8.0*605. It includes the following options: <ul style="list-style-type: none"> • XLFIPV CONVERT • XLFIPV FORCEIP4 • XLFIPV FORCEIP6 • XLFIPV VALIDATE • XLFIPV VERSION
XLFIPV VALIDATE	Validate IPv4 and IPv6 address			(Released with Patch XU*8.0*605)
XLFIPV VERSION	Show system settings for IPv6			(Released with Patch XU*8.0*605)
XPAR EDIT BY TEMPLATE	Edit Parameter Values with Template	Action	Entry Action: D SELTED^XPAREDT3	This option prompts for a Parameter template and then uses the selected template to edit parameter values.
XPAR EDIT KEYWORD	Edit Parameter Definition Keyword	Edit		This option edits the KEYWORD field in the PARAMETER DEFINITION (#8989.51) file.
XPAR EDIT PARAMETER	Edit Parameter Values	Action	Entry Action: D ^XPAREDT	This option calls the low-level parameter editor that allows you to edit the values for every parameter. Normally, VistA software applications

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				supply other means of editing parameters.
XPAR LIST BY ENTITY	List Values for a Selected Entity	Action	Entry Action: D ALLENTS^XPARLIST	This option prompts the user for the entry of an entity (e.g., location, user, etc.) and lists all value instances for that entity.
XPAR LIST BY PACKAGE	List Values for a Selected Package	Action	Entry Action: D ALLPKG^XPARLIST	This option prompts the user for a Vista software application and lists all parameter values for the selected application.
XPAR LIST BY PARAM	List Values for a Selected Parameter	Action	Entry Action: D ALLPARS^XPARLIST	This option prompts the user for a parameter (i.e., defined in the PARAMETER DEFINITION [#8989.51] file) and lists all value instances for that parameter.
XPAR LIST BY TEMPLATE	List Values for a Selected Template	Action	Entry Action: D TMPLT^XPARLIST()	This option prompts the user for a Parameter template. Depending on the definition of the template, additional information may be requested, and then the parameter values defined by the template are displayed.
XPAR MENU TOOLS	General Parameter Tools	Menu		This menu contains general purpose tools for managing parameters. It includes the following options: <ul style="list-style-type: none"> • XPAR LIST BY PARAM • XPAR LIST BY ENTITY • XPAR LIST BY PACKAGE

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> • XPAR LIST BY TEMPLATE • XPAR EDIT PARAMETER • XPAR EDIT BY TEMPLATE • XPAR EDIT KEYWORD  REF: For more information on the XPAR* APIs, see the <i>Parameter Tools Supplement to Patch Description: XT*7.3*26</i> documentation located on the VDL at: http://www.va.gov/vdl/application.asp?appid=12
XPD BACKUP	Backup a Transport Global	Run Routine	Routine: EN^XPDIB	This option creates a MailMan message that will back up all current routines on your system that would be replaced by the packages (VistA M-based software applications) in this Transport Global. Those components that are <i>not</i> routines <i>must</i> be backed up separately if they need to be preserved.
XPD BUILD NAMESPACE	Create a Build Using Namespace	Run Routine	Routine: BUILD^XPDE	This option creates a new entry in the BUILD (#9.6) file, and populates the entry using a namespace.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XPD COMPARE TO SYSTEM	Compare Transport Global to Current System	Run Routine	Routine: XPDCOM	This option lets you compare the components of a transport global, which is currently loaded in the XTMP global, to your current system.
XPD CONVERT PACKAGE	Convert Loaded Package for Redistribution	Run Routine	Routine: EN2^XPDIU	This option changes a package (VistA M-based software application) that was loaded on your system, to a package that can be transported in a distribution. The loaded package will be unloaded from your system and deleted from the INSTALL (#9.7) file. A BUILD (#9.6) file entry will be created for this package. You can use the Transport a Distribution option [XPD TRANSPORT PACKAGE] to create a new distribution with this package.
XPD COPY BUILD	Copy Build to Build	Run Routine	Routine: COPY^XPDE	This option copies one entry in the BUILD (#9.6) file to another.
XPD DISTRIBUTION MENU	Edits and Distribution	Menu		This menu contains options to create, edit, and transport a package (VistA M-based software application). It includes the following options: <ul style="list-style-type: none"> • XPD BUILD NAMESPACE • XPD COPY BUILD • XPD EDIT BUILD • XPD TRANSPORT

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				PACKAGE <ul style="list-style-type: none"> • XT-BLD RTN LIST • XT-VERSION NUMBER • XT-RTN CS EDT • XT-RTN CS UPDATE
XPD EDIT BUILD	Edit a Build	Run Routine	Routine: EDIT^XPDE	This option lets you edit BUILD (#9.6) file entries.
XPD EDIT INSTALL	Edit Install Status	Edit		This option edits the STATUS and the INSTALL COMPLETE TIME fields in the INSTALL (#9.7) file.
XPD INSTALL BUILD	Install Package(s)	Run Routine	Routine: EN^XPDI	<p>This option starts the install process for all packages (VistA M-based software applications) in a Transport Global that are part of a distribution.</p> <p> NOTE: You <i>must</i> load the distribution <i>before</i> you can use this option to install it.</p>
XPD INSTALLATION MENU	Installation	Menu		<p>This menu contains options to load, install, and restart the install of a KIDS Distribution. It includes the following options:</p> <ul style="list-style-type: none"> • XPD LOAD DISTRIBUTION • XPD PRINT CHECKSUM • XPD PRINT INSTALL • XPD COMPARE

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				TO SYSTEM <ul style="list-style-type: none"> • XPD BACKUP • XPD INSTALL BUILD • XPD RESTART INSTALL • XPD UNLOAD DISTRIBUTION
XPD LOAD DISTRIBUTION	Load a Distribution	Run Routine	Routine: EN1^XPDIL	This option loads a KIDS distribution. A distribution is a Host File Server (HFS) file that contains one or more transport globals.
XPD MAIN	Kernel Installation & Distribution System	Menu		This menu contains options to prepare a VistA M-based module for distribution and install the module at a site. It includes the following options: <ul style="list-style-type: none"> • XPD DISTRIBUTION MENU • XPD UTILITY • XPD INSTALLATION MENU • XPD AUTOMATIC PATCHING MENU
XPD PRINT BUILD	Build File Print	Run Routine	Routine: EN1^XPDDP	This option prints the contents of an entry in the BUILD (#9.6) file.
XPD PRINT CHECKSUM	Verify Checksums in Transport Global	Run Routine	Routine: EN1^XPDDCS	This option verifies the checksums for the components of a Transport Global and reports any checksums that are incorrect.
XPD PRINT INSTALL	Print Transport Global	Run Routine	Routine: EN2^XPDDP	This option lets you print the contents of a Transport Global that is

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				currently loaded in the ^XTMP global.
XPD PRINT INSTALL FILE	Install File Print	Run Routine	Routine: EN1^XPDDI	This option prints the contents of an entry in the INSTALL (#9.7) file.
XPD PRINT PACKAGE PATCHES	Display Patches for a Package	Run Routine	Routine: EN1^XPDDPCK	This option prints all patches installed for a package (VistA M-based software application). It displays the Date Installed and who installed the patches. It optionally prints the description of the patch. All information comes from the PACKAGE (#9.4) file.
XPD PURGE FILE	Purge Build or Install Files	Run Routine	Routine: PURGE^XPDR	This option purges entries in the BUILD (#9.6) or INSTALL (#9.7) files. You are prompted for the version numbers to retain.
XPD RESTART INSTALL	Restart Install of Package(s)	Run Routine	Routine: EN^XPDIR	This option restarts the install process for packages (VistA M-based software applications) in a transport global.
XPD ROLLUP PATCHES	Rollup Patches into a Build	Run Routine	Routine: EN1^XPDER	This option finds all the patches for a package (VistA M-based software application) and adds their BUILD (#9.6) file definition to the package BUILD (#9.6) file definition. This enables you to create a single BUILD (#9.6) file entry that contains the definition for a patched package.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XPD ROUTINE UPDATE	Update Routine File	Run Routine	Routine: UPDT^XPDR	This option lets you update the ROUTINE (#9.8) file by adding existing routine names from the current system. You enter the namespaces for the routines being updated and the namespaces of the routines to be excluded from the update. Optionally, this option goes through the ROUTINE (#9.8) file and deletes any local routine names that no longer exist on the system. Any routine listed as national will <i>not</i> be removed from the file.
XPD TRANSPORT PACKAGE	Transport a Distribution	Run Routine	Routine: XPDT	This option uses entries in the BUILD (#9.6) file to create a Transport Global to export packages (VistA M-based software applications). If you choose a Host File Server (HFS) file as an output device, the Transport Global is written to the HFS file, creating a distribution. If you do <i>not</i> choose a device, the Transport Global is written to the ^XTMP global on your system.
XPD UNLOAD DISTRIBUTION	Unload a Distribution	Run Routine	Routine: EN1^XPDIU	This option removes the Transport Global and packages (VistA M-based software applications) in the INSTALL (#9.7) file for a loaded distribution. It

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				also removes any dangling packages in the Transport Global. You can only select the starting package.
XPD UTILITY	Utilities	Menu		<p>This menu contains options to print and verify a BUILD (#9.6) file \ entry. It also contains options to maintain the ROUTINE (#9.8) file.</p> <p>This menu contains the following options:</p> <ul style="list-style-type: none"> • XPD PRINT BUILD • XPD PRINT INSTALL FILE • XPD CONVERT PACKAGE • XPD PRINT PACKAGE PATCHES • XPD PURGE FILE • XPD ROLLUP PATCHES • XPD ROUTINE UPDATE • XPD VERIFY BUILD • XPD VERIFY INTEGRITY
XPD VERIFY BUILD	Verify a Build	Run Routine	Routine: VER^XPDE	This option verifies the contents of a build. It checks that every component that is listed in the build still exists on your system. You should use it before you export a package (VistA M-based software application).

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XPD VERIFY INTEGRITY	Verify Package Integrity	Run Routine	Routine: EN2^XPDDCS	This option checks the integrity of a package (VistA M-based software application) on your system. It compares the current checksums with the checksums sent with the distribution.
XQ LIST UNREFERENCED OPTIONS	List Unreferenced Menu Options	Run Routine	Routine: LIST^XQ33	(Released with Patch XU*8.0*614) This option runs a report listing unreferenced options in the OPTION (#19) file. It lists entries that are <i>not</i> assigned to any user or attached to any other menu option. It does <i>not</i> include options that are assigned in TaskMan or have the KEEP FROM DELETING (#209.2) field set to "Yes".
XQ UNREF'D OPTIONS	Delete Unreferenced Options	Run Routine	Routine: XQ33	This option can be used to examine those options that are <i>not</i> on any menu, are <i>not</i> used as primary or secondary options, and are <i>not</i> tasked to run. The user may then decide in each case whether to delete the unreferenced option.
XQ XUTL \$J NODES	Clean old Job Nodes in XUTL	Run Routine	Routine: XQ82	This option should be scheduled to run once a day after midnight. It can be run from a host system script to get non-global files like ^TMP. This option cleans up several temporary

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>globals that applications may have left behind or got left because of trapping and error or other abnormal job termination.</p> <p>This option causes old job-related nodes that may remain in the following globals to be removed:</p> <ul style="list-style-type: none"> • ^XUTL("XQ",\$J, • ^UTILITY(\$J, • ^TMP(\$J, <p>An old job node is one that was started seven days prior to the current day, irrespective of the time of day. Does <i>not</i> have a</p> <p>^XUTL("XQ",\$J,"KEE PALIVE") node with a more current date in \$H format. If it has a ^XUTL("XQ",\$J,"ZTS KNUM") node and a lock of ^%ZTSCH("TASK",tasknumber) is in place it will <i>not</i> be purged.</p> <p>It looks at ^UTILITY(\$J) and ^TMP(\$J) for entries without a ^XUTL("XQ",\$J) to kill. It looks at ^UTILITY(namespace,\$J) and ^TMP(namespace,\$J) for entries without a ^XUTL("XQ",\$J) to kill.</p> <p>It looks for</p>


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>^XTMP(namespace) entries without a zero node or the zero node date is less than today. It looks for signon log "CUR", "AS1" and "AS2" cross-reference entries more than seven days old and sets the current date as the signoff value and sets the FORCE CLOSE field to "Yes". It clears Menu build nodes in ^XUTL("XQO",n,"^BUILD"). It clears any ^DISV data for terminated users.</p>
XQAB ACTUAL OPTION USAGE	Actual Usage of Alpha/Beta Test Options	Run Routine	Routine: ACTUAL^XQABL IST	This option is available for listing actual usage of options within a package that is in alpha or beta testing. It lists only those options that have been accessed one or more times since the last installation of the package.
XQAB AUTO SEND	Send Alpha/Beta Usage to Developers	Run Routine	Routine: DOMAIL^XQABLI ST	This option is set up to automatically send to the developing OIFO information on the usage of options in those packages currently in test status. If it is selected manually, it sends similar messages as well.
XQAB ERR DATE/SITE/NU	Print Alpha/Beta	Print		This option is used to print a listing of

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
M/ROU/ERR	Errors (Date/Site/Num/Rou/Err)			<p>alpha/beta test errors reported from the test sites. The print is for a range of dates and lists the sites, the number of the errors reported by a site, the routine involved, and the error text. The range of dates, sites, and routine names are user selectable. The output format includes:</p> <ul style="list-style-type: none"> • Date of Errors • Site.name • Number.of.errors • Routine • Error.text <p>The subtotals and totals are given for number of errors.</p>
XQAB ERROR LOG SERVER	Handle Alpha/Beta Errors Logged at Sites	Server	<p>Routine: XQABELOG</p> <ul style="list-style-type: none"> • Suppress Bulletin: YES, SUPPRESS IT • Server Action: RUN IMMEDIATELY • Server Reply: NO REPLY (DEFAULT) 	<p>This SERVER option is used to store data sent by the XQAB ERROR LOG XMIT option back to the developing site (usually an OIFO). As a server to which the mail messages containing data on the types and frequencies of errors associated with an application package in alpha or beta test, this option starts a routine that processes the message contents and stores the data in File #8991.5 (^XTV(8991.5,...)). The contents of the file can be processed using several options or by the use of VA FileMan</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>directly. The file contains data on the following:</p> <ul style="list-style-type: none"> • Type of error • Routine involved • Option that was in use at the time of the error • Date • Number of errors for that date, by site (and if multiple Error Traps are used at a site, by the VOL,UCI)
XQAB ERROR LOG XMIT	Errors Logged in Alpha/Beta Test (QUEUED)	Run Routine	Routine: XQABERR Scheduling Recommended: YES	<p>This option is used to identify any errors associated with an application package hat is in either alpha or beta test. The identified errors are combined in a mail message that includes the following:</p> <ul style="list-style-type: none"> • Type of error • Routine involved • Date (usually the previous day) • Option that was being used at the time of the error • Number of times the error was logged. • Volume and UCI are included so that stations with error logs being maintained on different CPUs can run the task on each different system.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>This option was designed to be tasked. It does <i>not</i> require a device and generates a mail message to the developing OIFO. An alpha or beta package is indicated by the presence of the package (and its namespaces in the ALPHA/BETA TEST PACKAGE (#32) Multiple field in the KERNEL SYSTEM PARAMETERS (#8989.3) file.</p> <p>The option should usually be scheduled to run after midnight and scheduled for re-queuing at a daily interval.</p>
XQAB LIST LOW USAGE OPTS	Low Usage Alpha/Beta Test Options	Run Routine	Routine: LOW^XQABLIST	<p>This option is available for obtaining a listing of options that are in a package under alpha or beta testing and have low levels of use since the last installation of the package. An option with low use is any option in the package namespaces with zero to five accesses.</p>
XQAB MENU	Alpha/Beta Test Option Usage Menu	Menu		<p>This menu option is available for accessing the following options related to usage of options in alpha or beta test packages:</p> <ul style="list-style-type: none"> • XQAB ACTUAL OPTION USAGE • XQAB LIST LOW


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				USAGE OPTS <ul style="list-style-type: none"> • XQAB AUTO SEND • XQAB ERR DATE/SITE/NUM/ROU/ERR
XQAL ALERT LIST FROM DATE	List Alerts for a user from a specified	Run Routine	Routine: EN^XQARPRT2	<p>This option reports all alerts from the ALERT TRACKING (#8992.1) file for a selected user within a specified date range. If an end date is <i>not</i> specified, the report does <i>not</i> run.</p> <p>The listing includes the following:</p> <ul style="list-style-type: none"> • Internal Entry Number (IEN) for the alert in the ALERT TRACKING (#8992.1) file. • Date and time the alert was generated. • Message text of the alert. • Information about any option or routine to be executed for processing the alert.
XQAL CRITICAL ALERT COUNT	Critical Alerts Count Report	Run Routine	Routine: CRITICAL^XQARPRT1	<p>This option is used to generate a report of users who have alerts defined as Critical based upon inclusion of text entries from the ALERT CRITICAL TEXT (#8992.3) file between the specified start and end dates. For example, Critical-type alerts contain the</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>following words:</p> <ul style="list-style-type: none"> ABNL IMA <p> NOTE: This entry was added with Kernel Patch XU*8.0*690.</p> <ul style="list-style-type: none"> ABNORMAL IMA CRITICAL POSSIBLE MALIG <p>How the report is presented depends on the order by which method the user selects:</p> <ul style="list-style-type: none"> Name—Report lists items alphabetized by name. Number—Report list items in descending order for the number of Critical-type alerts present. <p>Kernel Patch XU*8.0*690 modified the Critical Alerts Count Report output, so any Critical-type alerts preceded with the words "NOT" or "NON", the only two supported Critical-type alert negation indicators, are automatically screened from this report.</p> <p>For each user who has the specified number of Critical-type alerts or more, the report includes the following:</p> <ul style="list-style-type: none"> Name—User

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>name.</p> <ul style="list-style-type: none"> • Service/Section—Section/Service for the user. • Alerts—Number of alerts in the ALERT (#8992) file. • Last Sign-on—Last sign-on date. • CRIT—Number of alerts with Critical-type text. • Alert—Date of the oldest alert.
XQAL GUI ALERTS	Kernel GUI Alerts	Broker (Client / Server)		<p>This is the context option for the Kernel Alert components:</p> <ul style="list-style-type: none"> • RPC: XQAL GUI ALERTS • RPC: XUS KEY CHECK • RPC: DDR DELETE ENTRY • RPC: DDR FILER • RPC: DDR FIND1 • RPC: DDR FINDER • RPC: DDR GET DD HELP • RPC: DDR GETS ENTRY DATA • RPC: DDR KEY VALIDATOR • RPC: DDR LISTER • RPC: DDR LOCK/UNLOCK NODE • RPC: DDR VALIDATOR
XQAL NO BACKUP REVIEWER	No Alert Backup Reviewer	Run Routine	Routine: RPT1^XUP468	This option runs the report that generates a list of active

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				users/providers that hold the ORES security key and backup reviewers for alerts.
XQAL PATIENT ALERT LIST	Patient Alert List for specified date	Run Routine	Routine: DTPT^XQARPRT 2	<p>This option is used to obtain a list of alerts for a specified patient from the ALERT TRACKING (#8992.1) file for a selected date.</p> <p>A prompt is provided to obtain a quick scan listing of dates with at least some alerts for the patient on it based on OR and DVB alerts (other patient-related alerts need to be identified by looking at each alert's message text and are included in the full list, but <i>not</i> the quick scan).</p> <p>The listing includes:</p> <ul style="list-style-type: none"> • Internal entry number for the alert in the ALERT TRACKING (#8992.1) file • Date and time the alert was generated • Message text of the alert • Information about any option or routine to be executed for processing the alert
XQAL REPORTS MENU	Report Menu for Alerts	Menu		This menu provides several options for generating reports on alerts for users or patients. It includes the following options:

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> • XQAL USER ALERTS COUNT • XQAL CRITICAL ALERT COUNT • XQAL ALERT LIST FROM DATE • XQAL PATIENT ALERT LIST • XQAL VIEW ALERT TRACKING ENTRY
XQAL SET BACKUP REVIEWER	Set Backup Reviewer for Alerts	Run Routine	Routine: BKUPREVIEW^XQ ALDEL	This option provides a mechanism for a user to set entries into the PARAMETERS (#8989.5) file that will assign an individual as Backup Reviewer for alerts if there is a date specified for Days For Backup Reviewer in the Alert. If this is the case, an alert that remains unread for the indicated number of days will be forwarded to the Backup Reviewer found for the lowest level for the user in the PARAMETERS (#8989.5) file starting with User, and progressing through OERR Team, Service, Division, up to System.
XQAL SURROGATE FOR WHICH USERS	Surrogate for which Users?	Run Routine	Routine: GETFOR^XQALS URO	This option provides a view of which users have specified a selected user as surrogates for themselves.
XQAL USER	User Alerts	Run	Routine:	This option is used to


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
ALERTS COUNT	Count Report	Routine	EN1^XQARPRT1	<p>generate a report on users who have more than a specified number of alerts in the ALERT (#8992) file. This report also includes users who have alerts defined as Critical based upon inclusion of text entries from the ALERT CRITICAL TEXT (#8992.3) file. For example, Critical-type alerts containing the following words:</p> <ul style="list-style-type: none"> • ABNL IMA <p> NOTE: This entry was added with Kernel Patch XU*8.0*690.</p> <ul style="list-style-type: none"> • ABNORMAL IMA • CRITICAL • POSSIBLE MALIG <p>Kernel Patch XU*8.0*690 modified the User Alerts Count Report output, so any Critical-type alerts preceded with the words "NOT" or "NON", the only two supported Critical-type alert negation indicators, are automatically screened from this report.</p> <p>The report covers a specified range of dates, and can be sorted by any of the following data:</p> <ul style="list-style-type: none"> • User name.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> • Number of alerts. • Service/Section. <p>In addition, the report in each of these formats may be generated by Divisions if desired.</p> <p>For each user who has the specified number of alerts or more, the report includes the following:</p> <ul style="list-style-type: none"> • Name—User name. • Service/Section—Section/Service for the user. • Alerts—Number of alerts in the ALERTS (#8992) file. • Last Sign-on—Last sign-on date. • CRIT—Number of alerts with Critical-type text. • Alert—Date of the oldest alert.
XQAL VIEW ALERT TRACKING ENTRY	View data for Alert Tracking file entry	Run Routine	Routine: VIEWTRAK^XQA RPRT2	This option can be used to view data for one or more entries in the ALERT TRACKING (#8992.1) file in captioned format. The internal entry numbers for the entries to be displayed <i>must</i> be entered individually.
XQALERT	View Alerts	Run Routine	Routine: DOIT^XQALERT Exit Action: K: \$D (ORVP) ORVP	This option is used to select alerts or notifications produced by application packages for viewing

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				or to perform any actions associated with the alert or notification received.
XQALERT BY USER DELETE	Purge Alerts for a User	Run Routine	Routine: USERDEL^XQAL ERT	This option permits users holding the XQAL-DELETE security key to delete alerts for another user. This is intended for when a user has been inactive for a period of time (e.g., vacation, etc.) and has accumulated a number of alerts which should <i>not</i> need processing.
XQALERT DELETE OLD	Delete Old (>14 d) Alerts	Run Routine	Routine: OLDDEL^XQALE RT	This option is used to remove alerts that remain in the ALERT (#8992) file. Applications can set a retention date (or even keep indefinitely for some clinical alerts). The >14d is the default if a retention date is <i>not</i> set.
XQALERT MAKE	Make an alert on the fly	Run Routine	Routine: XQALMAKE	This option creates an alert and sends it to users or mail groups on-the-fly.
XQALERT MGR	Alert Management	Menu		This menu provides a menu of options for managing alerts. These options include the ability to delete options based on time or a particular user, to generate a new alert, etc. It includes the following options: <ul style="list-style-type: none"> • XQALERT BY USER DELETE

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> • XQALERT DELETE OLD • XQALERT MAKE • XQALERT SURROGATE SET/REMOVE • XQAL SURROGATE FOR WHICH USERS • XQAL SET BACKUP REVIEWER • XQAL REPORTS MENU
XQALERT SURROGATE SET/REMOVE	Alerts - Set/Remove Surrogate for User	Run Routine	Routine: OTHRSURO^XQ ALSURO	<p>System administrators or ADPACs can use this option to set or remove a surrogate for receiving alerts for a user. The option prompts for a user to be selected, then is ready to specify a new surrogate for the selected user, or to remove the current surrogate for that user.</p> <p>This option is <i>not</i> needed by the individual users who may select to name or remove a surrogate as one of the options while processing alerts (or, if no alerts are present for the user, as his only option on selecting alert processing).</p>
XQBUILDMAIN	Menu Rebuild Menu	Menu		<p>This is the main menu for all menu rebuild options. It includes the following options:</p> <ul style="list-style-type: none"> • XQSHOWBUILDS

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> • XQKICKMICRO • XQRIGHTNOW • XQBUILDTREE • XQBUILDUSER <p>This option is locked with the XUPROGMODE security key.</p>
XQBUILDTREE	Build Primary Menu Trees	Run Routine	Routine: BUILD^XQ81	This option can be used to force the rebuilding of the tree structures used for the ^JUMP . Whenever an item in a menu is modified, the tree <i>must</i> get rebuilt. This happens automatically the first time it is referenced but forcing the rebuild can often save time. The rebuilding of all trees can be queued.
XQBUILDTREE QUE	Non-interactive Build Primary Menu Trees	Run Routine	Routine: QUE^XQ81 Exit Action: ;S XQSTOP=\$\$HTE^XLFD T(\$H),^FINN(DT,"S TOP")=XQSTOP K XQSTOP	<p>This option may be queued to run at a given frequency (e.g., daily) and does <i>not</i> require interaction with a user at the time it is run.</p> <p>Other than being non-interactive it does the same job as XQBUILDTREE with specification of no verification and queue the job.</p>
XQBILDUSER	Single User Menu Tree Rebuild	Run Routine	Routine: USER^XQ84	(Released with Patch XU*8.0*614) This option collects the menus that a user has in the primary and secondary fields of the OPTION (#19) file and

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>then rebuilds the menu tree. It is attached to the Menu Rebuild Menu [XQBUILDMAIN] option.</p> <p> NOTE: Other users might have the same menu tree, but this will only rebuild the menu tree for the selected user.</p>
XQCOPYOP	Copy Everything About an Option to a New Option	Run Routine	Routine: XQ11	This option does a %RCR copy of one option's fields into a new option. It also tries to enforce namespacing rules when the new option is named.
XQDIAGMENU	Menu Diagrams	Menu		<p>This menu contains the various methods of diagramming menus. It includes the following methods:</p> <ul style="list-style-type: none"> • XUUSERACC • XUUSERACC2 • XUUSERACC1
XQDISPLAY OPTIONS	Display Menus and Options	Menu		<p>This is a menu of options that help the user display menus and their options. It includes the following options:</p> <ul style="list-style-type: none"> • XUINQUIRE • XUPRINT • XUUSERACC1 • XUUSERACC2 • XUUSERACC • XQ LIST UNREFERENCED

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				OPTIONS
XQHELP-ASSIGN	Assign Editors	Run Routine	Routine: EN1^XQ61	This option allows the author of a help frame to assign editors. A help frame is editable thru ^E by the author, the editors, and anyone holding the XUAUTHOR security key.
XQHELP-DEASSIGN	Unassign Editors	Run Routine	Routine: EN2^XQ61	This option allows the author of a help frame to take away edit privileges previously assigned.
XQHELP-DISPLAY	Display/Edit Help Frames	Run Routine	Routine: XQH	This option displays the text of a help frame, and allows for the edit of the name, header, text, or related frames.
XQHELP-LIST	List Help Frames	Run Routine	Routine: XQH4	This option lists the help frames, progressing through the tree. Several different formats are available.
XQHELP-MENU	Help Processor	Menu		This menu option contains several functions for entering help text, displaying it, and listing it. It includes the following options (listed in display order): <ul style="list-style-type: none"> • XQHELP-DISPLAY (1) • XQHELP-LIST (2) • XQHELP-UPDATE (3) • XQHELP-XREF (4) • XQHELP-ASSIGN (5) • XQHELP-

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				DEASSIGN (6) • XQHELPPFIX (7)
XQHELP- UPDATE	New/Revised Help Frames	Print		This option produces a VA FileMan listing of help frames sorted by DATE LAST UPDATED. It allows you to view any recently created or revised frames. You can also sort by package prefix.
XQHELP-XREF	Cross Reference Help Frames	Run Routine	Routine: XQH3	Lists all the help frames for a specified package, showing parent frames, linked to menu options, and invoked routines.
XQHELPPFIX	Fix Help Frame File Pointers	Action	Entry Action: S %=0 D ENASK^XQ3	This option scans through the HELP FRAME (#9.2) file for dangling pointers. It deletes keywords that point to help frames that no longer exist.
XQKEYALTOD EL	Change user's allocated keys to delegated keys	Run Routine	Routine: ATOD^XQ6	<p>This option prompts for a user and uses %XY^%RCR to make all security keys the user holds delegated security keys, so that the user can give them to others.</p> <p>This option is locked with the ADP security key.</p>
XQKEYDEL	Delegate keys	Run Routine	Routine: EN3^XQ6	This option delegates security keys to a user, so that user can then give them out to other users. It also allows other users to delegate them in return.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				This option is locked with the ADP security key.
XQKEYRDEL	Remove delegated keys	Run Routine	Routine: EN4^XQ6	This option removes security keys previously delegated to a user.
XQKICKMICRO	Kick Off Micro Surgery	Run Routine	Routine: CHEK^XQ83 Entry Action: W !! , ?5, \$S (\$D (^DIC (19, "AT"))) : "Done." , 1: "Nothing to rebuild.")	When certain changes are made to the OPTION (#19) file those changes are recorded in the ^DIC(19, "AT") cross-reference. Micro surgery is the software in ^XQ83* that uses this data to rebuild the compiled menu trees in ^DIC(19, "AXQ") . Micro surgery is normally triggered when a user logs into a system, but this option allows the programmer to start it manually if minor changes are made to the OPTION (#19) file, which do <i>not</i> merit a complete rebuild. If there is nothing in the "AT" cross-reference to work on, the option responds with: "Nothing to rebuild." If there is work to do, then the option responds with: "Done," which means that Micro surgery has been started.
XQLISTKEY	Show the keys of a particular user	Run Routine	Routine: LIST^XQ6	This option lists the security keys held by a particular user.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XQLOCK1	All the Keys a User Needs	Run Routine	Routine: EN1^XQLOCK	This option invokes a routine that follows the menu trees of a user and collects all of the security keys into a list that are needed to effectively use a menu.
XQLOCK2	Keys For a Given Menu Tree	Run Routine	Routine: EN2^XQLOCK	This option runs a routine that searches the children of a given parent option and compiles a list of the security keys needed for that menu tree.
XQOOFF	Mark Option Set Out-Of-Order	Run Routine	Routine: OFFOP^XQOO1	This option marks an option set Out-Of-Order.
XQOOMAIN	Out-Of-Order Set Management	Menu		<p>This menu includes the following options:</p> <ul style="list-style-type: none"> • XQOOMAKE • XQOOFF • XQOON • XQOOSHO FIL • XQOOSHOW • XQOOSHOPRO • XQOOREDO • XQOOTOG <p>This option is locked with the ADP security key.</p>
XQOOMAKE	Create a Set of Options To Mark Out-Of-Order	Run Routine	Routine: EN^XQOO	This option creates a set of options to mark Out-Of-Order.
XQOON	Remove Out-Of-Order Messages from a Set of Options	Run Routine	Routine: ONOP^XQOO1	This option removes Out-Of-Order messages from a set of options.
XQOOREDO	Recover deleted	Run Routine	Routine:	This option recovers an option set that has

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
	option set		REBLD^XQOO1	been deleted from the ^XTMP global by looping through the OPTION (#19) and PROTOCOL (#101) files to find all that have a particular Out-Of-Order message. It rebuilds the option set in the ^XTMP global.
XQOOSHOFIL	Options in the Option File that are Out-Of-Order	Run Routine	Routine: LALL^XQOO3	This option presents a list of options in the OPTION (#19) file that are currently marked Out-Of-Order.
XQOOSHOPRO	Protocols Marked Out-Of-Order in Protocol File	Run Routine	Routine: LAPR^XQOO3	This option presents a list of protocols in the PROTOCOL (#101) file that are currently marked as Out-Of-Order.
XQOOSHOW	List Defined Option Sets	Run Routine	Routine: EN^XQOO2	This option lists the option sets that have been created in ^XUTL by their names.
XQOOTOG	Toggle options/protocols on and off	Run Routine	Routine: TOG^XQOO1	This option is used to write or remove Out-Of-Order messages from individual options or protocols.
XQOPACCESS	See if a User Has Access to a Particular Option	Run Routine	Routine: OPACCES^XQCHK	This option prompts for an option name and the name of a user and then searches the user's menu trees to see if the user has access to the option. It also checks to see if the user has the security key for a locked option.
XQOPED	Screen-based Option	ScreenMan	Entry Action: D EA^XQOPED	This option runs the ScreenMan option editor form

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
	Editor		Exit Action: D XA^XQOPED	XQEDTOPT. This option is locked with the ADP security key.
XQOPTFIX	Fix Option File Pointers	Action	Entry Action: S %=1 D ENASK^XQ3	This option scans through the OPTION (#19) file for dangling pointers. It deletes menu items that point to options that no longer exist.
XQORPHANOPTIONS	Non-queueable options with no parents	Menu		The options on this menu should <i>not</i> be assigned to a user's menu. They are also <i>not</i> queueable, so they do <i>not</i> appear on the ZTQUEUEABLE OPTIONS menu. They are collected on this menu, so that they are <i>not</i> accidentally deleted from the system.
XQRESTRICT	Restrict Availability of Options	Run Routine	Routine: XQ9	This option is used to assign various sorts of restrictions to options. The following fields can be set, for individual options or groups of options: <ul style="list-style-type: none"> • LOCK • PROHIBITED TIMES • SPECIFY DEVICES • PRIORITY • OUT OF ORDER This option is locked with the ADP security key.
XQRIGHTNOW	Is there a menu rebuild running right	Run Routine	Routine: NOW^XQ84	This option checks the various flags set in ^DIC(19,"AXQ","P0")

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
	now?			to determine if there is menu rebuild activity on your system right now.
XQSCHK	Server-type Option Test Server	Server	Routine: XQSRV5 Server Action: RUN IMMEDIATELY	This server-type option is used to test other servers by examining the host OPTION (#19) file and returning the data associated with the target server. A message is sent to the host site with the name of the server option to be examined on the first line of the message.
XQSHOKEY	List users holding a certain key	Run Routine	Routine: SHOW^XQ6	This option displays all the holders of a certain security key.
XQSMD ADD	Select Options to be Delegated	Run Routine	Routine: XQSMD	This option is used to delegate the management of a set of options (or remove options already delegated) to a particular user or set of users.
XQSMD BUILD MENU	Build a New Menu	Run Routine	Routine: BUILD^XQSMD4	This option allows the delegated menu manager to build (create) new menus from the ones that are allowed.
XQSMD BY OPTION	List Delegated Options and their Users	Print		This option prints the Secure Menu Delegation (SMD) options and the users that can delegate them.
XQSMD BY USER	Print All Delegates and their Options	Print		This option prints the users that have SMD and the options that they can delegate.


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XQSMD COPY USER	Copy One Users Menus and Keys to others	Run Routine	Routine: XQSMDCPY	<p>This option is used to copy the primary menu and secondary menu options from one user to one or more others. The only options transferred will be those that have been delegated to the current user. Likewise, keys that are held by the selected user can be copied to the recipient users if the current user has been delegated this capacity as well.</p> <p>This option provides an application coordinator the ability to produce users that have the capabilities of a current user (e.g., a ward clerk, scheduling clerk, etc.).</p>
XQSMD EDIT OPTIONS	Edit a User's Options	Run Routine	Routine: ENTRY^XQSMD5	Allows user to edit primary and secondary user options.
XQSMD LIMITED FM OPTIONS	Limited File Manager Options (Build)	Run Routine	Routine: XQSMDFM	<p>This option permits a user to build limited PRINT, EDIT, or INQUIRE options. The user <i>must</i> have one or more ALLOWABLE MENU PREFIX and the XQSMDFM security keys.</p> <ul style="list-style-type: none"> • Edit Option—To build an edit option, the user <i>must</i> have an edit template to use. • Print Option—To build a print option, the user <i>must</i> have both a sort

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>template and a print template.</p> <ul style="list-style-type: none"> • Inquire Option—To build an inquire option the user can have a print template or can specify the file to use. <p>The option is entered among the user's delegated options, so that they can be included on a menu built under the Secure Menu Delegation or given to other users as secondary options. The name of the option is restricted to the namespace designated in the ALLOWABLE MENU PREFIX followed by a Z, and then identifying text.</p>
XQSMD MGR	Secure Menu Delegation	Menu		<p>This menu manages the Secure Menu Delegation system. For those who are allowed to add and remove options from delegated sets of options. It includes the following options:</p> <ul style="list-style-type: none"> • XQSMD ADD • XQSMD REMOVE • XQSMD BY OPTION • XQSMD BY USER • XQSMD USER MENU • XQSMD SHOW • XQSMD REPLICATE



Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> XQSMD SET PREFIX
XQSMD REMOVE	Remove Options Previously Delegated	Run Routine	Routine: EN2^XQSMD Help Frame: XQSMD-OPTION	Removes options from already established delegates.
XQSMD REPLICATE	Replicate or Replace a Delegate	Run Routine	Routine: XQSMD3 Help Frame: XQSMD-REPLICATE	This option transfers the set of options delegated to a particular user to another user; optionally, allowing the original user's delegated options to be removed.
XQSMD SEC OFCR	Secure Menu Delegation	Menu		This menu includes Secure Menu Delegation options for reviewing the delegates and the options which they may delegate. It includes the following options: <ul style="list-style-type: none"> XQSMD SHOW XQSMD BY OPTION XQSMD BY USER
XQSMD SET PREFIX	Specify Allowable New Menu Prefix	Edit		Permits the user to give another user an Allowable New Menu Prefix for purposes of Secure Menu Delegation (SMD), so that the delegate can build new menus from the options that have been delegated.
XQSMD SHOW	Show a Delegate's Options	Run Routine	Routine: SHOW^XQSMD2 1	This option shows you who created a delegate, when, and what delegation level they are; as well as all of the options



Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				delegated to that person, when each was delegated, and by whom.
XQSMD USER MENU	Delegate's Menu Management	Menu		<p>This is the Secure Menu Delegation (SMD) menu that is given to individuals who can modify other's primary or secondary menus. It includes the following options:</p> <ul style="list-style-type: none"> • XQSMD BUILD MENU • XQSMD EDIT OPTIONS • XQSMD LIMITED FM OPTIONS • XQSMD COPY USER • XQCOPYOP
XQSPING	TCP/IP Type Ping Server	Server	<ul style="list-style-type: none"> • Server Action: RUN IMMEDIATELY • Server Audit: NO • Suppress Bulletin: YES, SUPPRESS IT • Server Reply: REPLY ON ERROR ONLY 	This is a PING server that works like PING under TCP/IP. If you send a message to this sever it sends it back to you, thereby showing that the network mail channel is open.
XQTKILL	Delete a Menu Template	Run Routine	Routine: KILL^XQT4	Removes a menu template from the NEW PERSON (#200) file.
XQTLIST	Show all options in a Menu Template	Run Routine	Routine: LIST^XQT4	List out all of the options in a particular menu template.
XQTNEW	Create a new menu	Run Routine	Routine:	This option invokes a routine that walks the




Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
	template		XQT2	user through the menu trees creating a new menu template.
XQTRNAM	Rename a menu template	Run Routine	Routine: RNAM^XQT4	This option renames a particular menu template.
XQTSHO	List all Menu Templates	Run Routine	Routine: SHO^XQT4	This option lists all of the menu templates for the invoking user along with the first two options in that template.
XQTUSER	Menu Templates	Menu		This is the user's menu of menu template utilities. It includes the following options: <ul style="list-style-type: none"> • XQTSHO • XQTLIST • XQTKILL • XQTRNAM • XQTNEW
XU BLOCK COUNT	Global Block Count	Run Routine	Routine: %ZTBKC	This option counts the number of data blocks in a global.
XU CHECKSUM LOAD	Load/refresh checksum values into ROUTINE file	Run Routine	Routine: LOAD^XUGOT	This option updates the ROUTINE (#9.8) file with the latest checksum values from FORUM.
XU CHECKSUM REPORT	Compare local/national checksums report	Run Routine	Routine: REPORT^XUGOT 1	This option compares checksums for routines to the values in the ROUTINE (#9.8) file. It provides a report listing routines that differ by patch or version, version or patch is correct, but checksums are off, local routines being tracked and information <i>not</i> on record for a patch



Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				(e.g., test patches). Nationally released routines' checksums are sent by Master File Updates to the local ROUTINE (#9.8) file automatically. Local sites may also record checksums in the CHECKSUM VALUE field in the ROUTINE (#9.8) file. To compare local routines which are being tracked, the CHECKSUM REPORT field should be set to " Local report ".
XU DA EDIT	DA Return Code Edit	Run Routine	Routine: XUS11	This option runs a routine to allow the setup and editing of the DA RETURNS CODE (#3.22) file.
XU EPCS	User start-up event	Extended Action		Released with Kernel Patch XU*8.0*580, this option is used exclusively during a VistA user signon event. Items listed in this option are "TYPE:action" options in the OPTION (#19) file that can be used to prompt users for input upon VistA signon and before their Primary Menu Option is displayed. It will <i>not</i> be used for GUI signons. It is called from XQ12 routine.  REF: For instructions on how to use this option, see




Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				Kernel Patch XU*8.0*593 and the Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide.
XU EPCS DISUSER EXP DATE	Print DISUSER DEA Expiration Date Null	Print		Released with Kernel Patch XU*8.0*580, this option prints all DISUSERed users with an unpopulated DEA# and DEA EXPIRATION DATE. This option prints the following data: <ul style="list-style-type: none"> • NAME • DEA# • TERMINATION DATE • DEA EXPIRATION DATE
XU EPCS DISUSER PRIVS	Print DISUSER Prescribers with Privileges	Print		Released with Kernel Patch XU*8.0*580, this option prints all DISUSERed users who have privileges to any of the SCHEDULEs II through V and who have a DEA# or VA#. This option prints the following data: <ul style="list-style-type: none"> • NAME • DUZ • DEA# • TERMINATION DATE • VA# • SCHEDULESs
XU EPCS DISUSER XDATE EXPIRES	Print DISUSER DEA Expiration	Print		This option prints all DISUSERed users with a DEA# and where the DEA EXPIRATION




Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
	Date Expires 30 days			<p>DATE expires within 30 days. This option prints the following data:</p> <ul style="list-style-type: none"> • NAME • DEA# • DEA EXPIRATION DATE <p> NOTE: This option was released with Kernel Patch XU*8.0*580.</p>
XU EPCS EDIT DATA	ePCS Edit Prescriber Data	Broker (Client/Server)	<p>RPCs:</p> <ul style="list-style-type: none"> • XU EPCS EDIT • XUS KEY CHECK • DDR DELETE ENTRY • DDR FILER • DDR FIND1 • DDR FINDER • DDR GET DD HELP • DDR GETS ENTRY DATA • DDR KEY VALIDATOR • DDR LISTER • DDR LOCK/UNLOCK NODE • DDR VALIDATOR • XWB GET VARIABLE VALUE • XUS PKI SET UPN • XUS PKI GET 	<p>This is a Broker-type context option that is given to those individuals who are permitted to edit the data related to e-prescribing of controlled substances. It includes the XQAL GUI ALERTS option.</p> <p>This option is locked with the XUEPCSEDIT security key.</p> <p> NOTE: This option was released with Kernel Patch XU*8.0*580.</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
			UPN	
XU EPCS EDIT DEA# AND XDATE	Edit Facility DEA# and Expiration Date	Edit		<p>This option edits the FACILITY DEA NUMBER (#52) and FACILITY DEA EXPIRATION DATE (#52.1) fields in the INSTITUTION (#4) file.</p> <p> NOTE: This option was released with Kernel Patch XU*8.0*580.</p>
XU EPCS EXP DATE	Print DEA Expiration Date Null	Print		<p>This option prints all active users with an unpopulated DEA# and DEA EXPIRATION DATE. This option prints the following data:</p> <ul style="list-style-type: none"> • NAME • DEA# • DEA EXPIRATION DATE <p> NOTE: This option was released with Kernel Patch XU*8.0*580.</p>
XU EPCS LOGICAL ACCESS	Task Changes to DEA Prescribing Privileges Report	Run Routine	Routine: RPT1^XUEPCSR T	<p>This tasked option prints the setting or change to DEA prescribing privileges related to issuance of a controlled substance prescription.</p> <p>This option only prints data from the previous day and with data that has been modified. The data is retrieved from the XUEPCS DATA</p>


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>(#8991.6) file.</p> <p>This option should be scheduled to run on a daily basis.</p> <p> NOTE: No data is displayed to the screen; the data is printed to the device indicated by the XUEPCS REPORT DEVICE parameter.</p> <p> CAUTION: Verify that the XUEPCS REPORT DEVICE parameter has been set <i>before</i> using this option.</p> <p>To set the parameter, see the “Set the XUEPCS REPORT DEVICE Parameter” section in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>.</p> <p> NOTE: This option was released with Kernel Patch XU*8.0*580.</p>



Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XU EPCS PRINT EDIT AUDIT	Print Audits for Prescriber Editing	Run Routine	Routine: PRINT^XUEPCSE D	<p>This option prints information related to the editing of prescriber information.</p> <p> NOTE: This option was released with Kernel Patch XU*8.0*580.</p>
XU EPCS PRIVS	Print Prescribers with Privileges	Print		<p>This option prints all active users who have privileges to any of the SCHEDULEs II through V and who have a DEA# or VA#. This option prints the following data:</p> <ul style="list-style-type: none"> • NAME • DUZ • DEA# • VA# • SCHEDULEs <p> NOTE: This option was released with Kernel Patch XU*8.0*580.</p>
XU EPCS PSDRPH	Print PSDRPH Key Holders	Print		<p>This option prints all active users holding the PSDRPH security key. This report sorts by Division, and within DIVISION, it sorts by NAME. This option prints the following data:</p> <ul style="list-style-type: none"> • NAME • DUZ • GIVEN BY (Person Who Assigned Key)

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> DATE GIVEN (Date Assigned)  NOTE: This option was released with Kernel Patch XU*8.0*580.
XU EPCS PSDRPH AUDIT	Task Allocation Audit of PSDRPH Key Report	Run Routine	Routine: RPT2^XUEPCSR T	<p>This tasked option prints the allocation of the PSDRPH security key.</p> <p>This option only prints data from the previous day and with data that has been modified. The report prints data for the archive XUEPCS PSDRPH AUDIT (#8991.7) file.</p> <p>This option should be scheduled to run on a daily basis.</p>  NOTE: No data is displayed to the screen; the data is printed to the device indicated by the XUEPCS REPORT DEVICE parameter.  CAUTION: Verify that the XUEPCS REPORT DEVICE parameter has been set <i>before</i> using this option.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>To set the parameter, see the “Set the XUEPCS REPORT DEVICE Parameter” section in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>.</p> <p> NOTE: This option was released with Kernel Patch XU*8.0*580.</p>
XU EPCS PSDRPH KEY	Allocate/De- Allocate of PSDRPH Key	Run Routine	Routine: PSDKEY^XUEPC SRT	<p>This option allows users to allocate or de-allocate the PSDRPH security key.</p> <p> NOTE: This option was released with Kernel Patch XU*8.0*580.</p>
XU EPCS SET PARMS	Print Setting Parameters Privileges	Print		<p>This option prints all active users holding the XUEPCSEDT security key. This option identifies individuals responsible for setting the parameters.</p> <p> NOTE: This option was released with Kernel Patch XU*8.0*580.</p>
XU EPCS	ePCS DEA	Menu		This is DEA ePCS

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
UTILITY FUNCTIONS	Utility Functions			<p>Utility main menu. It includes the following options (listed in display order):</p> <ul style="list-style-type: none"> • XU EPCS EXP DATE (1; SYNONYM: 1) • XU EPCS DISUSER EXP DATE (2; SYNONYM: 2) • XU EPCS XDATE EXPIRES (3; SYNONYM: 3) • XU EPCS DISUSER XDATE EXPIRES (4; SYNONYM: 4) • XU EPCS PRIVS (5; SYNONYM: 5) • XU EPCS DISUSER PRIVS (6; SYNONYM: 6) • XU EPCS PSDRPH (7; SYNONYM: 7) • XU EPCS SET PARMS (8; SYNONYM: 8) • XU EPCS PRINT EDIT AUDIT (9; SYNONYM: 9) • XU EPCS LOGICAL ACCESS (10; SYNONYM: 10) • XU EPCS PSDRPH AUDIT (11; SYNONYM: 11) • XU EPCS PSDRPH KEY (12; SYNONYM: 12)

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				12) • XU EPCS EDIT DEA# AND XDATE (13; SYNONYM: 13)
XU EPCS XDATE EXPIRES	Print DEA Expiration Date Expires 30 days	Print		This option prints all active users with a DEA# and where the DEA EXPIRATION DATE expires within 30 days. This option prints the following data: <ul style="list-style-type: none"> NAME DEA# DEA EXPIRATION DATE  NOTE: This option was released with Kernel Patch XU*8.0*580.
XU FINDUSER	Find a user	Run Routine	Routine: XUS9	This option finds a user that is currently signed on to the system in this UCI group. If the user is on this CPU it also shows the menu path. It uses the “CUR” cross-reference on the SIGN-ON LOG (#3.081) file.
XU FIRST LINE PRINT	First Line Routine Print	Run Routine	Routine: %ZTP1	This option uses the %ZTP1 utility to print the first line of routines.
XU IP RELEASE	Release IP lock	Run Routine	Routine: X6IP^XUSTZIP	This option releases the lock on an IP address caused by too many invalid signon attempts.
XU NOP MENU	Do nothing menu	Menu		This menu is just a placeholder for some special access


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>methods.</p>  <p>CAUTION: Do <i>not</i> place any new items in the menu multiple.</p>
XU OPTION QUEUE	One-time Option Queue	Run Routine	Routine: XUTMOPT	This option allows any option that is in the OPTION (#19) file with the SCHEDULING RECOMMENDED field set to Yes , to be set up for one-time queuing.
XU OPTION START	One-time Option Start (Internal Use Only)	Action	Entry Action: <pre> N XQY,XQY0 S XQY0=\$G(^DIC(19,X UXQM,0)),XQT=\$P(X QY0,U,4) I \$L(XQT),"APR"[XQT S XQY=XUXQM D ZTSK2^XQ1 Q </pre>	<p>This option works with XU OPTION QUEUE (One-time Option Queue) to allow site managers to schedule an option that usually runs on a cycle without disrupting that cycle.</p>  <p>This option should <i>not</i> be used directly, either from a menu or through the Schedule/Unschedule Options [XUTM SCHEDULE] option; it is used internally by XU OPTION QUEUE to make that option work correctly.</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XU PROC CNT CLUP	XUS Process count cleanup	Run Routine	Routine: CLEAR^XUSCNT (0)	This option is only needed for GT.M sites. This is the Kernel process count cleanup routine. It checks the entries in XUTL("XUSYS",\$J) to see if they are still active, and if <i>not</i> , removes the entry. For GT.M sites only, schedule this option to run between every 1 to 8 hours.
XU SEC OFCR	Menu and Option Security	Menu		This menu includes options to allow the user to review options. It includes the following options: <ul style="list-style-type: none"> • XUINQUIRE • XUOPTWHO • XUPRINT • XUUSERACC • XUUSERACC2 • XUXREF-2 • XQSHOKEY • XQLOCK2 • XQSMD SEC OFCR • XUOPTDISP • XUOPTLOG • XUOPTPURGE
XU SID ASK	Ask if Production Account	Run Routine	Routine: ASK^XUPROD	This option allows the user to claim that the current account is the Production account and set the SID into the KERNEL SYSTEM PARAMETERS (#8989.3) file. This option is locked with the XUMGR

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				security key.
XU SID EDIT	Edit Logical/Physical Mapping	Run Routine	Routine: EDIT^XUPROD	This option lets you edit the two fields that are used in the SID code to map a logical name in the Cache cpf file to the Physical name that is returned by a \$ZU(12,"") call.
XU SID STARTUP	Startup PROD check	Run Routine	Routine: CHECK^XUPROD	This option should run at every startup to check if the current SID matches the stored SID. To do this, the option needs to be in the OPTION SCHEDULING (#19.2) file with the SPECIAL QUEUEING field set to Startup Persistent.
XU SITE LOCKOUT	Edit Site IP lockout	Action	Entry Action: N DA,DR,DIE S DA=1,DR="[XUSITEIP]",DIE=8989.3 D XUDIE^XUS5	This option edits the KERNEL SYSTEM PARAMETERS (#8989.3) file for IP lockout, User lockout, and Terminal server list entry.
XU SWITCH UCI	Switch UCI	Run Routine	Routine: SWITCH^XUS3A	This option switches UCIs.
XU USER ADD	New User Event	Extended Action	Entry Action: D GET^XUSERP (XUIEN, .XUSR)	This is a protocol to link other software applications that want to know about a USER ADD event. Other packages can attach to this protocol option, and they are called when a new USER is Added. At the end of editing, the user data XU USER CHANGE protocol is called. DUZ is the person that is running the add user

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>option. XUIFN points to the NEW PERSON (#200) file entry that has been added. It returns selected File #200 data to XUSR(field name) array for NEW PERSON components. It is called from XUSERNEW by XUSERP. It includes the following option:</p> <ul style="list-style-type: none"> • PSB BCBU PMU MESSAGE BUILDER
XU USER CHANGE	User Change Event	Extended Action	Entry Action: <code>D GET^XUSERP (XUIEN, .XUSR)</code>	<p>This is a protocol to link other software applications that want to know about a USER CHANGE event. Other packages can attach to this protocol option, and they are called when a user is Edited. DUZ is the person that is running the edit user option. XUIFN points to the NEW PERSON (#200) file entry that has been changed. It returns selected File #200 data to XUSR(field name) array for NEW PERSON components. It includes the following option:</p> <ul style="list-style-type: none"> • PSB BCBU PMU MESSAGE BUILDER
XU USER SIGN-ON	User sign-on event	Extended Action		<p>This is a protocol option to link other software applications that want to know</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>about a user signon event. The protocols <i>must not</i> READ/WRITE to the screen, because it may be doing a GUI signon. They can set text that is displayed to the user by calling SET^XUS1A(string) The first character should be a ! to cause the text to be placed on a new line. DUZ is defined but other variables may <i>not</i> be. It is called from XUS1A. It includes the following options:</p> <ul style="list-style-type: none"> • PRSAZ SUP ALERTS • RA SIGN-ON MSG • VAFC EXCEPTION NOTIFIER • RG EXCEPTION NOTIFIER • ASL ESIG ACCESS AGREEMENT • ADR PURCHASE CARD ACTIONS • AEA CMR TURN IN ALERT • AEA PPM TURN IN ALERT • AEA WHSE TURN IN ALERT • ENIT RESP NOTIFY
XU USER START-UP	User start-up event	Extended Action	Routine: XQ12	This is a protocol option that is used exclusively during a VistA user signon event. Items attached to this option are

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>"TYPE:action" options in the OPTION (#19) file, which can be used to prompt users for input upon VistA signon and before their Primary Menu Option is displayed. Unlike the XU USER SIGN-ON option, it can provide interactive prompting to users. It is <i>not</i> used for GUI signon.</p> <p>For example, The KEEP FROM DELETING (#209.2) field has been set to Yes on the User start-up event [XU USER START-UP] option.</p> <p>This option is called from the XQ12 routine.</p> <p> NOTE: This option was released with Kernel Patch XU*8.0*593.</p>
XU USER TERMINATE	User terminate event	Extended Action	Entry Action: D GET^XUSERP (XUIEN, .XUSR)	<p>This is a protocol to link other software applications that want to know about a USER TERMINATE event. Other applications can attach to this protocol option and they will be called when a USER is terminated. The call is just after the user's Access and Verify codes have been removed. DUZ is the person that is running the terminate option. XUIFN points to the NEW PERSON (#200)</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>file entry that is being terminated. It returns selected File #200 data to XUSR(field name) array for NEW PERSON components. It is called in XUSTERM from XUSERP. It includes the following options:</p> <ul style="list-style-type: none"> • USR USER TERMINATE • GMRC TERMINATE CLEANUP • OR TERMINATE CLEANUP • PRCS TERMINATE • AEA XU TERMINATE REMOTE • TIU TEMPLATE USER DELETE • PSB BCBU PMU MESSAGE BUILDER • ENIT USER ACCOUNT TERMINATED
XU-486 MENU COPY	Copy the compiled menus from the print server	Action	<p>Entry Action:</p> <pre>s SYS="CS" F s SYS=\$O(^%ZIS(14.5 ,"B",SYS)) Q:SYS'["CS" s UCI="VAH",%X="^XU TL("XQO","",,%Y=" ^[UCI,SYS]XUTL(" XQO","",,%=\$E(%Y,1 ,\$L(%Y)-1)_" " X "K @% D %XY^%RCR"</pre>	<p>(Obsolete) This option is just for the MSM 486 site that run TaskMan only on the print server and need to get updated compiled menus to the Compute servers.</p> <p>It should be scheduled to run after the menu tree rebuild has finished on the print server. As distributed, it only copies the</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				compiled menus to a UCI named VAH on compute servers named CSA,CSB,... It uses %RCR to copy the data.
XU-CLINICAL ACTIVE TRAINEE	List of Active Registered Trainees	Print		This option prints a report of active Registered Trainees. The SCHEDULING RECOMMENDED (#209) field has been set to YES in case the site decides they want to schedule this report at regular intervals. When manually launching this report, it is recommended that it be QUEUED.
XU-CLINICAL INACTIVE TRAINEE	List of Inactive Registered Trainees	Print		This option prints a report of inactive Registered Trainees. The SCHEDULING RECOMMENDED (#209) field has been set to YES in case the site decides they want to schedule this report at regular intervals. When manually launching this report, it is recommended that it be QUEUED.
XU-CLINICAL LOCAL REPORTS	Local Trainee Registration Reports	Menu		This menu option provides various Trainee Registration reports that look at the local database. It includes the following options: <ul style="list-style-type: none"> • XU-CLINICAL TRAINEE DB COUNT • XU-CLINICAL

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				ACTIVE TRAINEE <ul style="list-style-type: none"> XU-CLINICAL INACTIVE TRAINEE XU-CLINICAL TRAINEE LIST
XU-CLINICAL TRAINEE COUNT	Count of Clinical Trainee's	Print		This option prints a reports of the total number of Clinical Trainee's that have been entered into the NEW PERSON (#200) file.
XU-CLINICAL TRAINEE DB COUNT	Total Count of Registered Trainees	Print		This option prints a report of the total number of Clinical Trainee's that have been entered into the NEW PERSON (#200) file.
XU-CLINICAL TRAINEE EDIT DB COUNT	Edit Trainee Registration Data	Action	Entry Action: S DIC="^VA(200," ,DI C(0)="AEMQ",DIC("S")="I \$S(\$P(^ (0),U,11): \$P(^ (0),U,11)'<\$ FMADD^XLFD(T,DT,"" -1096""),1:1)" D ^DIC K DIC Q:Y=-1 S DA=+Y,DR="[XU- CLINICAL TRAINEE]" ,DIE="^V A(200," D XUDIE^XUS5 K D0,DA,DIE,DR	This option is used to edit the Registered Trainee data.
XU-CLINICAL TRAINEE INQUIRY	Trainee Registration Inquiry	Inquire		This option displays various attributes of Registered Trainees.
XU-CLINICAL TRAINEE LIST	List of All Registered Trainees	Print		This option reports both active and inactive Registered Trainees. The SCHEDULING RECOMMENDED (#209) field has been set to YES in case the

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				site decides they want to schedule this report at regular intervals. When manually launching this report, it is <i>recommended</i> that it be QUEUED.
XU-CLINICAL TRAINEE MENU	OAA Trainee Registration Menu	Menu		This is the primary menu for managing Trainee Registration. It includes the following options: <ul style="list-style-type: none"> • XU-CLINICAL TRAINEE EDIT • XU-CLINICAL TRAINEE INQUIRY • XU-CLINICAL TRAINEE REPORTS
XU-CLINICAL TRAINEE REPORTS	Trainee Reports Menu	Menu		This is the Trainee Registration main reports menu. It includes the following options: <ul style="list-style-type: none"> • XU-CLINICAL LOCAL REPORTS • XU-CLINICAL TRANS REPORTS
XU-CLINICAL TRAINEE TRANSA	Trainee Transmission Report by Date	Print		This option produces a report of transmitted trainees by date transmitted to the OAA.
XU-CLINICAL TRAINEE TRANSB	Trainee Transmission Report Selectable Items	Print		This option selects a range for date transmitted and a range for the VHA training facility.
XU-CLINICAL TRAINEE TRANSC	Trainee Transmission Report by Range	Print		This report displays/prints the Registered Trainee transmission counts for a selected period of time.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XU-CLINICAL TRANS REPORTS	Trainee Transmission Reports to OAA	Menu		<p>This is the menu for the Various Trainee Registration transmission reports to the OAA. It includes the following options:</p> <ul style="list-style-type: none"> • XU-CLINICAL TRAINEE TRANSA • XU-CLINICAL TRAINEE TRANSB • XU-CLINICAL TRAINEE TRANSC
XU-INACTIVE PERSON CLASS USERS	List Inactive Person Class Users	Run Routine	Routine: PR^XUBA	This option lists users who currently have inactive Person Classes and need to be assigned new Person Classes.
XU-INSTITUTION-DEA	Institution DEA# edit	Edit		This option edits the Facility DEA number in the INSTITUTION (#4) file.
XU-INSTITUTION-E	Institution Edit	ScreenMa n		This option edits a subset of the fields in the INSTITUTION (#4) file.
XU-PERSON CLASS EDIT	Person Class Edit	Action	Entry Action: S DIC="^VA(200," ,DI C(0)="AEMQ",DIC("S")="I \$\$(\$P(^ (0),U,11): \$P(^ (0),U,11)'<DT ,1:1)" D ^DIC K DIC Q:Y=-1 S DA=+Y,DR=" [XU- PERSON CLASS]" ,DIE="^VA(200," D XUDIE^XUS5 K D0,DA,DIE,DR	<p>This option is used to edit Person Class data. This option is located under the User Management menu [XUSER].</p> <p>This option can be given to any user who needs to edit this data. Users that have been terminated <i>cannot</i> be edited.</p>
XU-PERSON CLASS REMOVE	Remove a person class entry	Run Routine	Routine: REMOVE^XUA4A72	This option should be given only to those persons that the site trusts to remove entries from the Person Class

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				multiple of the NEW PERSON (#200) file. The PERSON CLASS Multiple holds a history, and under normal use, entries should <i>not</i> be removed. This option is to fix real messes.
XU-PING-SERVER	TCP/IP type PING server	Server	Routine: XTSPING	This is a PING server that works like PING under TCP/IP. If you send a message to this server it will send it back to you.
XU-SPL-ALLOW	Allow other users access to spool documents	Edit		This option edits the OTHER AUTHORIZED USERS field in the SPOOL DOCUMENT file to allow other users access to a spool document.
XU-SPL-BROWSE	Browse a Spool Document	Run Routine	Routine: BROWSE^ZISPL	This option uses the VA FileMan Browser tool on a Spool Document.
XU-SPL-DELETE	Delete A Spool Document	Run Routine	Routine: DELETE^ZISPL	Delete a spool document from the SPOOL DOCUMENT file and delete the associated message if they are still linked.
XU-SPL-LIST	List Spool Documents	Print		This option lists entries in the SPOOL DOCUMENT file.
XU-SPL-MAIL	Make spool document into a mail message	Run Routine	Routine: MAIL^ZISPL	This option takes a spool document and posts it as a MailMan message to the user's IN basket. This does <i>not</i> move the data at all but does decrease the number of lines charged to the user.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XU-SPL-MENU	Spooler Menu	Menu		<p>This is the menu of options to work with spooled documents after they have been created. It includes the following options:</p> <ul style="list-style-type: none"> • XU-SPL-LIST • XU-SPL-PRINT • XU-SPL-DELETE • XU-SPL-MAIL • XU-SPL-ALLOW • XU-SPL-BROWSE
XU-SPL-MGR	Spool Management	Menu		<p>This is the menu for the system administrators to manage the spooler access. It includes the following options (listed in display order):</p> <ul style="list-style-type: none"> • XU-SPL-DELETE (1) • XU-SPL-USER (2) • XU-SPL-LIST (3) • XU-SPL-PRINT (4) • XU-SPL-SITE (5) <p>This menu is locked with the XUMGR security key.</p>
XU-SPL-PRINT	Print A Spool Document	Run Routine	Routine: PRINT^ZISPL	This option prints a document that has been spooled.
XU-SPL- PURGE	Purge old spool documents	Run Routine	Routine: 1^ZISPL2	This option should be tasked to run at least once a week to delete spool documents that are older than the number of days in the KERNEL SYSTEM PARAMETERS (#8989.3) file.
XU-SPL-SITE	Spooler Site Parameters	Edit		Edit the site parameters for the


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
	Edit			Spooler.
XU-SPL-USER	Edit User's Spooler Access	Edit		This option allows the system administrators to edit the spooler fields in the NEW PERSON (#200) file.
XU-SPY-SHOW	Display the Kernel Audit Parameters	Print		This is an inquire to the KERNEL SYSTEM PARAMETERS (#8989.3) file to show the current AUDIT parameters that are set up.
XUADISP	Audit Display	Menu		This is the Audit Display menu. It includes the following options (listed in display order): <ul style="list-style-type: none"> • XUOPTDISP (1) • XUUSEROPT (2) • XUFDEV (3) • XUFDISP (4) • XUPMDISP (5)
XUAUDIT	Establish System Audit Parameters	Action	Entry Action: S DA=1,DIE="^XTV(89 89.3,"DR="[XUAUD IT]" D XUDIE^XUS5 K DA,DIE,DR	This option establishes the audit parameters for which option, namespace, user, device, and failed access attempt to audit. Includes date to initiate and terminate this audit function.
XUAUDIT MAINT	System Audit Menu	Menu		This menu establishes and maintains audit functions. It includes the following options (listed in display order; no #5): <ul style="list-style-type: none"> • XUAUDIT (1) • XU-SPY-SHOW (2) • XUSERVDISP (3) • XM SUPER

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				SEARCH (4) <ul style="list-style-type: none"> • DG BULLETIN LOCAL (6) • DG PATIENT INQUIRY (7) • DG PARAMETER ENTRY (8)
XUAUDIT MENU	Audit Features	Menu		This menu includes options to establish Kernel Audit Parameters and to print/display audit data. It includes the following options (listed in display order): <ul style="list-style-type: none"> • XUAUDIT MAINT (1) • XUAUDIT RPT (2) • XUADISP (3)
XUAUDIT RPT	System Audit Reports	Menu		This is a menu of reports pertaining to the audit of options, users, and the system. It includes the following options (listed in display order): <ul style="list-style-type: none"> • XUFAIL (1) • XUOPTLOG (2) • XUSC LIST (3)
XUAUTODEACTIVATE	Automatic Deactivation of Users	Run Routine	Routine: CHECK^XUSTER M1	This option will go thru the NEW PERSON (#200) file, and search for users with a termination date in the past who still have an access code. It deletes their Access code and security keys. It calls the XU USER TERMINATE protocol in the OPTION (#19) file, so other applications can take

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>any action needed. If the DELETE ALL MAIL ACCESS field is set, then the user is removed from the MailMan system. This deletes their mail boxes and deletes them from any mail groups.</p> <p>Patch XU*8*514 implements the Logical Access Controls section of VA Handbook 6500. Item d states that accounts are automatically disabled if inactive for 30 days.</p> <p>The routine checks for users that have an access code and a LAST SIGNON DATE (#202) where the LAST SIGNON DATE is more than 30 days old and sets the DISUSER (#7) field flag for the user. If the site has set the ACADEMIC AFFILIATION WAIVER (#13) field to YES in the KERNEL SYSTEM PARAMETERS (#8989.3) file then a 90-day limit is used in place of 30 days.</p>
XUCHANGE	Change Device's Terminal Type	Edit		This option changes the TERMINAL TYPE associated with a given device.
XUCOMMAND	SYSTEM COMMAND OPTIONS	Menu		This is the basic command menu that holds commands executable from

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>anywhere in the menu processor. It includes the following options:</p> <ul style="list-style-type: none"> • XUHALT • XUTIME • XUCONTINUE • XURELOG • XMUSER • XUSERTOOLS (SYNONYM: TBOX) • XQALERT (SYNONYM: VA) • ENWOWARD (SYNONYM: WOR) • PRSA EMP MENU (SYNONYM: LEAV) • ZPBOOK (SYNONYM: PB) • ZPSOMD DRUG LOOK-UP (SYNONYM: FORM) • 452 VA STATION INQ (SYNONYM: PB) • RTZ USER MENU (SYNONYM: RTZ) • OOPS GUI EMPLOYEE • XUS SIGNON • XUS KAAJEE WEB LOGON • XOBE ESIG USER • ENIT OWNER MENU (SYNONYM: IT O) • EC GUI CONTEXT • VEJDWPB CORE RPCS

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XUCONTINUE	Continue	Action	Entry Action: s XQUR="CON", ^ ("T") =^XUTL ("XQ", \$J, "T")-1 G CON^XQ12	This option halts processing, allowing for the user to directly proceed to the last option accessed on the next login.
XUCORE	Core Applications	Menu	Entry Action: D ^ASTR2,XM^ABOC	This menu branches to each of the CORE application packages. It includes the following options: <ul style="list-style-type: none"> • PSMENU (DISPLAY ORDER: 10) • DIUSER (SYNONYM: FM DISPLAY ORDER: 17) • MRMENU (DISPLAY ORDER: 7) • FHMGR (DISPLAY ORDER: 2) • YSUSER (DISPLAY ORDER: 6) • RADIOLOGY SYSTEM (DISPLAY ORDER: 13) • CRMGR (DISPLAY ORDER: 1) • LRZMENU (DISPLAY ORDER: 4) • VOLMENU (DISPLAY ORDER: 18) • SOWK (DISPLAY ORDER: 15)

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> • DGZMGR (SYNONYM: PIMS DISPLAY ORDER: 5) • FHDMP (DISPLAY ORDER: 9) • NURS-SYS-MGR (SYNONYM: NS) • ENMGR (SYNONYM: EN) • ABSV VAVS MASTER MENU (SYNONYM: VOL) • HL MAIN MENU (SYNONYM: HL7) • MAG WINDOWS • RDP1 UTIL MENU (SYNONYM: RDP)
XUDEV	Device Edit	Edit		This option changes the device characteristics for a given device.
XUDEV LINEPORT ADDR CURRENT	Current Line/Port Address	Action	Entry Action: W !,"Your current Line/Port address is " _ \$\$LNPRTNAM^%ZIS UTL	This option identifies your current Line/Port address.
XUDEV LINEPORT ADDR EDIT	Edit Line/Port Addresses	Edit		This option edits the Line/Port addresses.
XUDEV LINEPORT ADDR RPT	Line/Port Address report	Print		This option prints a report listing Line/Port Addresses.
XUDEV RES- CLEAR	Clear all resources	Run Routine	Routine: RELALL^XUDHR ES	<p>This option loops through all entries in the RESOURCE file (3.54) and removes any slot in use entries.</p> <div>  CAUTION: </div>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				This option should only be used as a TaskMan Startup option or by a knowledgeable site person.
XUDEV RES-ONE	Clear one Resource	Run Routine	Routine: RELONE^XUDHR ES	This option clears/resets one entry of one resource. System administrators use this option to clear problems.
XUDEVEDIT	Edit Devices by Specific Types	Menu		This menu edits specific types of devices using ScreenMan or edits all device fields. It includes the following options: <ul style="list-style-type: none"> • XUDEVEDIT SPL (SYNONYM: SPL) • XUDEVEDIT HFS (SYNONYM: HFS) • XUDEVEDIT RES (SYNONYM: RES) • XUDEVEDIT TRM (SYNONYM: TRM) • XUDEVEDIT ALL (SYNONYM: ALL)
XUDEVEDIT ALL	Edit All Device Fields	Edit		This option will allow the editing of all the fields in the DEVICE (#3.5) file.
XUDEVEDIT CHAN	Network Channel Device Edit	Run Routine	Routine: CHAN^ZISEDIT	This is a ScreenMan-oriented edit option for editing synchronous devices.
XUDEVEDIT HFS	Host File Server Device Edit	Run Routine	Routine: HFS^ZISEDIT	This is a ScreenMan-oriented edit option for editing Host file devices.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XUDEVEDITLP D	LPD/VMS Device Edit	ScreenMa n		This option calls a ScreenMan form to edit a VMS LPD device.
XUDEVEDITMT	Magtape Device Edit	Run Routine	Routine: MT^ZISEDIT	This is a ScreenMan oriented edit option for editing magtape devices.
XUDEVEDITRE S	Resource Device Edit	Run Routine	Routine: RES^ZISEDIT	This is a ScreenMan-oriented edit option for editing resource devices.
XUDEVEDITSP L	Spool Device Edit	Run Routine	Routine: SPL^ZISEDIT	This is a ScreenMan-oriented edit option for editing spool devices.
XUDEVEDITSY NC	Network Channel Device Edit	Run Routine	Routine: CHAN^ZISEDIT	This is a ScreenMan oriented edit option for editing synchronous devices.
XUDEVEDITTR M	TRM or VTRM Device Edit	Run Routine	Routine: TRM^ZISEDIT	This option calls a ScreenMan form to edit a TRM or VTRM device.
XUDIACCESS FOR ISO	Fileman Access for the ISO	Menu		This menu contains VA FileMan options. VA FileMan access is basically required until such time as all necessary reports can be generated by standardized menu options. It includes the following options (listed in display order): <ul style="list-style-type: none"> • DIPRINT (1) • DISEARCH (2) • DIINQUIRE (3) • DIAUDIT (4) • DILIST (5)
XUDISPLAY	Display Device Data	Print		This option prints a list of all the devices in the DEVICE file.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XUEDITOPT	Edit options	Edit	Entry Action: S DLAYGO=19 Exit Action: K DLAYGO D KICK^XQ7	This option creates the building blocks of the menu system. Each option should have an internal name, menu text, a description, and a type. Depending on its type, other fields are filled in.
XUER EDIT PARAMS	Error Trap Param Edit	ScreenMa n		This option allows the editing of Error Trap parameters in the KERNEL SYSTEM PARAMETERS (#8989.3) file.
XUER NOTE	Annotate an Error	Edit		This option provides a means of letting a programmer annotate an error that has been logged automatically.
XUER PURGE ERROR SUMMARY	Purge Error Trap Summary	Run Routine	Routine: PURGE^XTERSU M1	This option should be scheduled weekly or monthly to purge the error summary of old errors. It only purges entries where the last error was over 90 days ago.
XUER SUMMARY	Error Summary Menu	Menu		This menu holds the Error Summary options. It includes the following options: <ul style="list-style-type: none"> • XUER SUMMARY MOST RECENT • XUER NOTE • XUER PURGE ERROR SUMMARY • XUER UPDATE DEMAND/BATCH • XUER SUMMARY INQUIRE • XUER SUMMARY


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				TOP
XUER SUMMARY INQUIRE	Inquire Error Summary	Inquire		This option inquires into the ERROR TRAP SUMMARY (#3.077) file.
XUER SUMMARY MOST RECENT	Summary Most Recent Errors	Print		This option displays the most recent errors in the ERROR TRAP SUMMARY (#3.077) file.
XUER SUMMARY TOP	Top Errors	Run Routine	Routine: SHOW^XTERSU M4	This option runs a report of the top errors and prints a graph of when they occurred.
XUER UPDATE DEMAND/BATC H	Update Error Trap Summary	Run Routine	Routine: TODAY^XTERSU M	This option is run on demand or by batch to update the ERROR TRAP SUMMARY (#3.077) file from the current Error Trap. This only processes the errors for the current day. DO ADD^XTERSUM to add error from the last 30 days. See the code to reach back even further.
XUERRS	Error Processing	Menu		This menu provides access to options pertaining to the Error Trap: displaying, printing, and purging errors. It includes the following options: <ul style="list-style-type: none"> • XUERTRAP • XUERTRP PRINT ERRS • XUERTRP PRINT T-1 1 ERR (SYNONYM: P1) • XUERTRP PRINT T-1 2 ERR

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				(SYNONYM: P2) <ul style="list-style-type: none"> • XUERTRP CLEAN • XUERTRP TYPE • XUER SUMMARY (SYNONYM: SUM)
XUERTRAP	Error Trap Display	Run Routine	Routine: XTER	This option displays programmer error messages (operating-system dependent).
XUERTRP AUTO CLEAN	Error trap Auto clean	Run Routine	Routine: AUTO^XTERPUR	This is a queueable option to clean up the Error Trap. By default, this option cleans up any errors that were recorded more than 7 days ago. If in the TaskMan Schedule/Unschedule Options [XUTM SCHEDULE] option the TASK PARAMETERS field has another numeric value that is used instead.
XUERTRP CLEAN	Clean Error Trap	Run Routine	Routine: XTERPUR	This option is available to delete old errors from the Error Trap. This option is locked with the XUPROGMODE security key.
XUERTRP PRINT ERRS	Interactive Print of Error Messages	Run Routine	Routine: INTRACT^XTER1A	This option provides an interactive print of the first <i>n</i> occurrences of an error (where <i>n</i> is user-selectable) over the specified date range.
XUERTRP PRINT T-1 1 ERR	Print 1 occurrence of each error for T-1 (QUEUE)	Run Routine	Routine: ONE^XTER1A	This option obtains a listing of the first occurrence of each error recorded on the previous day. It can be

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				queued to run shortly after midnight. If a device is specified, the output is sent to the specified device. If a device is <i>not</i> specified, the output is sent in a mail message to the individual who queued the option to run. It should be set to automatically requeue at a 1D (every day) interval.
XUERTRP PRINT T-1 2 ERR	Print 2 occurrences of errors on T-1 (QUEUED)	Run Routine	Routine: TWO^XTER1A	This option obtains a listing of the first two occurrences of each error recorded on the previous day. It can be queued to run shortly after midnight. If a device is specified, the output is sent to the specified device. If a device is <i>not</i> specified, the output is sent in a mail message to the individual who queued the option to run. It should be set to automatically requeue at a 1D (every day) interval.
XUERTRP TYPE	Remove a TYPE of error	Run Routine	Routine: TYPE^XTERPUR	This option removes a type of error.
XUEXKEY	Allocate/De- Allocate Exclusive Key(s)	Run Routine	Routine: EXCLUDE^XQ6B	This option can be used to just edit the MUTUALLY EXCLUSIVE KEYS Multiple in the SECURITY KEY file. This option is locked with the XUEXKEY security key.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XUFAIL	Failed Access Attempts Log	Print		This option prints a list by date/time of those users who have failed access into the system.
XUFDEV	Device Failed Access Attempts	Print		This option displays failed access attempts; it sorts on device then date/time. It gives a subtotal of attempts for each device and a total of all those attempts requested in the sort. It prompts for a print device to generate a hard copy if desired.
XUFDISP	User Failed Access Attempts	Print		This option displays the user failed access attempts; it sorts on name then date/time of attempt. It prompts for device. It gives subtotals by user; total for all failed access attempts.
XUFILEACCESS	File Access Security	Menu		<p>This menu gives and takes away files from any user; as long as you have the same access and the same files as the user you are granting or taking away the files. It includes the following options:</p> <ul style="list-style-type: none"> • XUFILEGRANT (DISPLAY ORDER: 1) • XUFILESETDELETE (DISPLAY ORDER: 40) • XUFILEPRINT (DISPLAY ORDER: 30)

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> • XUFILELIST (DISPLAY ORDER: 25) • XUFILECOPY (DISPLAY ORDER: 5) • XUFILEREMOVEA LL (DISPLAY ORDER: 45) • XUFILESINGLEAD D (DISPLAY ORDER: 10) • XUFILEINQUIRY (DISPLAY ORDER: 20) • XUFILEDELETE (DISPLAY ORDER: 50) • XUFILERANGEAS SIGN
XUFILEACCESS SEC OFCR	Fileman Security Menu	Menu		<p>This menu includes options to display/print the VA FileMan files users can access. It includes the following options (listed in display order):</p> <ul style="list-style-type: none"> • XUFILEINQUIRY (1) • XUFILELIST (2) • XUFILEPRINT (3) • XUFILESETDELET E (4) • XUFILESINGLEAD D (5) • XUDIACCESS FOR OIG (6)
XUFILECOPY	Copy One User's File Access to	Run Routine	Routine: COPY^XUFILE	This option copies the file access that one user holds and give

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
	Others			that same access to others.
XUFILEDELETE	Take away All access to a File	Run Routine	Routine: DELF^XUFILE1	This option deletes the access all users hold to a particular file. This does <i>not</i> include those users with programmer access [i.e., DUZ(0)="@ "].
XUFILEGRANT	Grant Users' Access to a Set of Files	Run Routine	Routine: XUFILE	This option gives one or more users access to selected files. You can enter an individual file number, a range of numbers, and/or a list of file numbers.  NOTE: You can only give out access to files to which you have access.
XUFILEINQUIRY	Inquiry to a User's File Access	Inquire	Exit Action: K %ZISI,DISYS,DP,P, V,W,X1	This option shows what kind of file access a particular user has.
XUFILELIST	List Access to Files by File number	Run Routine	Routine: ACC^XUFILE1	This option lists, by file number, those users who have access to the range of files selected and what that access is.
XUFILEPRINT	Print Users Files	Print	Exit Action: K %ZISI,B,P,DIJ,DISYS	This option lists, by user, each file the user has access to, and what that access is. Users who have no access are <i>not</i> listed.
XUFILERANGE ASSIGN	Assign/Delet e a File Range	Edit	Exit Action: K %X,%Y,DI,DISYS,DQ ,V,W	This option assigns or deletes a file range for a user. This file range is used when creating a new file. If the range is present, then the

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				user can only create new files whose numbers are within the range.
XUFILEREMOV EALL	Remove All Access from a Single User	Run Routine	Routine: DELI^XUFILE1	This option removes all the file access a single user holds.
XUFILESETDEL ETE	Delete Users' Access to a Set of Files	Run Routine	Routine: XUDEL^XUFILE	This option deletes the access to files held by one or more users. You can enter an individual file number, a range of numbers, and/or a list of file numbers.
XUFILESINGLE ADD	Single file add/delete for a user	Edit	Exit Action: K V,W,C,DI,DISYS,DQ ,%X,%Y,DLAYGO	This option adds or deletes the access a user has for a single file.
XUFPURGE	Failed Access Attempts Log Purge	Run Routine	Routine: FAPURGE^XUAP URGE	This option asks for a beginning and ending date to purge all those entries in that range. Also, it asks for a date/time when this task will be queued to run.
XUHALT	Halt	Action	ENTRY ACTION: S: '\$D (XQCH) XQCH="HALT" G: \$L (XQCH) >2 HALT^XQ12 S XQUR="HALT" G XPRMP^XQ12	This is the command that is used to terminate processing in MenuMan.
XUINDEX	%Index of Routines	Run Routine	Routine: XINDEX	This option runs the %INDEX routine.
XUINDEX2	Structured Routine listing	Run Routine	Routine: XCR^%INDX8	This option allows the direct printing of %INDEX 's structured routine print.
XUINQUIRE	Option Function Inquiry	Inquire		This option displays the information known to MenuMan about a


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				given option.
XUKERNEL	Kernel Management Menu	Menu		<p>This menu contains Kernel management options. It includes the following options:</p> <ul style="list-style-type: none"> • XUSITEPARM • XUVERSIONEW-HELP • XU-INSTITUTION-E • XUMF INSTITUTION • XUMF IMF ADD EDIT • XUSSPKI EDIT • XU-INSTITUTION-DEA • XUPS NPF CLEANUP MAIN MENU • XU SID ASK • XU SITE LOCKOUT • XU IP RELEASE • XUMF LOAD NPI • XU SID EDIT • XUER EDIT PARAMS
XUKEYALL	Allocation of Security Keys	Run Routine	Routine: EN1^XQ6	This option assigns a set of security keys to an individual user or a single key to a set of users. To be eligible, a security key <i>must</i> be in existence and owned by the user of this option.
XUKEYDEALL	De-allocation of Security Keys	Run Routine	Routine: EN2^XQ6	This option is used to take away a set of security keys from an individual user or a

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				single key from a set of users. To be eligible, a key <i>must</i> be in existence and owned by the user of this option.
XUKEYEDIT	Enter/Edit of Security Keys	Edit		This option edits the descriptions of existing security keys and adds new keys to the system. Holders are specified through the Allocation of Security Keys [XUKEYALL] option.
XUKEYMGMT	Key Management	Menu		<p>This menu contains all of the options used to manage security keys. It includes the following options:</p> <ul style="list-style-type: none"> • ORLEASE (DISPLAY ORDER: 1) • XUKEYDEALL (DISPLAY ORDER: 2) • XUKEYEDIT (DISPLAY ORDER: 3) • XQSHOKEY • XQLISTKEY • XQKEYDEL • XQKEYRDEL • XQKEYALTODEL • XQLOCK1 • XQLOCK2 • XUEXKEY <p>This menu is locked with the XUSPY security key.</p>
XULIST	List Terminal Types	Print		This option prints a list of the various terminal

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				types known to the system.
XULM LOCK MANAGER MENU	Lock Manager Menu	Menu		<p>This menu holds all the options for the Kernel Lock Manager. It is located on Operations Management [XUSITEMGR] menu. It includes the following options:</p> <ul style="list-style-type: none"> • XULM LOCK MANAGER SYNONYM: LM DISPLAY ORDER: 1 • XULM EDIT LOCK DICTIONARY SYNONYM: EDIT DISPLAY ORDER: 4 • XULM PURGE LOCK MANAGER LOG SYNONYM: PURG DISPLAY ORDER: 6 • XULM VIEW LOCK MANAGER LOG SYNONYM: LOG DISPLAY ORDER: 5 • XULM EDIT PARAMETERS SYNONYM: SITE DISPLAY ORDER: 5 •
XULM LOCK MANAGER	Kernel Lock Manager	Action	ENTRY ACTION: D MAIN^XULM	This option allows the user to display the lock table and terminate processes that hold problem locks.
XULM VIEW LOCK	View Lock	Inquire		This option is used to view the Kernel Lock

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
MANAGER LOG	Manager Log			Manager Log.
XULM PURGE LOCK MANAGER LOG	Purge Lock Manager Log	Action	ENTRY ACTION: D PURGE^XULMLOG	This option is used to purge the Lock Manger Log of old entries.
XULM EDIT PARAMETERS	Edit Lock Manager Parameters	Action		This option is used to edit the site parameters for the Kernel Lock Manager.
XULM EDIT LOCK DICTIONARY	Edit Lock Dictionary	Action		This option allows users to add entries to the lock dictionary or edit existing entries.
XULM RPC BROKER CONTEXT	KERNEL LOCK MANAGER	Broker (Client /Server)	<ul style="list-style-type: none"> RPC: XULM GET LOCK TABLE RPCKEY: XULM LOCKS RPC: XULM KILL PROCESS RPCKEY: XULM LOCKS 	This is the "B" type option used by the Kernel Lock Manager.
XUMAINT	Menu Management	Menu		<p>This menu allows the systems manager or developer to maintain the menus, options, and security. It includes the following options:</p> <ul style="list-style-type: none"> XUEDITOPT (DISPLAY ORDER: 1) XUXREF (DISPLAY ORDER: 8) XQHELP-MENU (DISPLAY ORDER: 12) XQRESTRICT (DISPLAY ORDER: 12)

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				5) <ul style="list-style-type: none"> • XUOPTWHO (DISPLAY ORDER: 6) • XQOPTFIX (DISPLAY ORDER: 11) • XQSMD MGR (DISPLAY ORDER: 4) • XUKEYMGMT (DISPLAY ORDER: 3) • XUXREF-2 • XQOOMAIN • XQDISPLAY OPTIONS • XQOPED (SYNONYM: OPED) • XQBUILDMAN
XUMF DMIS ID LOAD	Load DMIS ID's	Run Routine	Routine: DMIS^XUMF04Q	<p>This option is used to queue a background job that will query the Institution Master File (IMF) and get the DoD DMIS ID facilities and populate the local INSTITUTION (#4) file with them.</p> <p>This option is locked with the XUMF INSTITUTION security key.</p>
XUMF IMF ADD EDIT	IMF edit	Run Routine	Out of Order Message: LOG REMEDY TICKET TO CHANGE NATIONAL ENTRY	<p>This option edits this facility's (or associated facility's) address information. The edits update your local INSTITUTION (#4) file <i>and</i> the Institution Master File (IMF) on FORUM.</p>


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				 <p>CAUTION: Use extreme care updating this information, because you will be updating not just your own database but the national database as well.</p> <p>This option is locked with the XUMF INSTITUTION security key.</p>
XUMF IMF EDIT STATUS	IMF Display Cleanup Status	Run Routine	Out of Order Message: DO NOT USE THIS OPTION	This option displays the facilities associated with the user and the status of the IMF data cleanup for each facility.
XUMF INSTITUTION	Institution File Query / Update	Run Routine	Routine: EN^XUMF4 Out of Order Message: Use XUMF LOAD INSTITUTION	<p>This option provides clean up utilities to check for duplicate station numbers and to get a copy of Institution Master File from FORUM for comparison and update purposes.</p> <p>The cleanup utilities provide several lists to compare the local INSTITUTION (#4) file with the Institution Master File (IMF) -- the "Gold" file of Institutions complete with all approved station numbers including inactive as well as active station numbers. Utilities will</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>be included to resolve duplicate station numbers and to automatically populate the local INSTITUTION (#4) file with national IMF data.</p> <p>The INSTITUTION (#4) file cleanup utilities use the query functionality provided by the Master File Server mechanism. An HL7 Master File Query (MFQ) message is sent to FORUM to get the IFM. The MFQ message is handled by the VistA HL7 package that invokes the Master File Server (MFS) message handler.</p> <p>The MFS handler interprets the query and builds/sends the appropriate response to the local site in an HL7 Master File Response (MFR) message. The VistA HL7 package invokes the MFS handler on the local site that stores the IMF data in a temporary global. The cleanup utilities use this information for the displays and to automatically update the local INSTITUTION (#4) file.</p> <p>This option is locked with the XUMF INSTITUTION security key.</p>
XUMF LOAD	Update/refre	Run	Routine:	This option queries the

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
INSTITUTION	sh Institution file with IMF data	Routine	EN^XUMF04Q	Institution Master File (IMF) to get the gold file of institutions and automatically updates the local INSTITUTION (#4) file. This option is locked with the XUMF INSTITUTION security key.
XUMF LOAD NPI	Load Institution NPI values	Run Routine	Routine: EN^XUMF416 Out of Order Message: USE XUMF LOAD INSTITUTION	This option will execute an HL7 query to FORUM to get the NPI values from the Institution Master File (IMF) and update the local INSTITUTION (#4) file.
XUMF335 clean 4.1 and 4	Patch XU*8*335 clean 4.1 and 4	Run Routine	Out of Order Message: USE XUMF LOAD INSTITUTION	This option removes existing entries from the FACILITY TYPE (#4.1) file and gets the "Gold" standard from FORUM. It updates the INSTITUTION (#4) file with IMF data. This option is locked with the XUMF INSTITUTION security key.
XUMNACCESS	Access Monitor Menu	Menu		This menu includes options to the Access Monitor Menu. It includes the following options (listed in display order): <ul style="list-style-type: none"> • XUPMDISP (1) • XUPMPURGE (2) • XUFAIL (3) • XUFPURGE (4) • XUFDEV (5) • XUFDISP (6)

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> XUSC LIST (7)
XUOAA SEND HL7 MESSAGE	Send HL7 PMU message	Run Routine	Routine: OAA^XUOAAHL7	This option sends an HL7 PMU message to the Office of Academic Affiliations (OAA).
XUOPTDISP	Option Audit Display	Print		This display sorts on option then date/time. Also prompts for print device to generate a hard copy of listing.
XUOPTLOG	Audited Options Log	Print		This report sorts on date/time then option; it prints all data elements of each entry requested.
XUOPTPURGE	Audited Options Purge	Run Routine	Routine: OPTPURGE^XUA PURGE	This option prompts for a beginning and ending date <i>and</i> time to purge the Option Audit entries. Also, it prompts for when the task will be run.
XUOPTUSER	User Management Menu	Menu		<p>This menu contains various Kernel options that have to do with managing individual users. It includes the following options:</p> <ul style="list-style-type: none"> XUSERSTATUS XU FINDUSER (SYNONYM: FIND) XUSERREL XUSC LIST XUSERLIST XUSERINQ XUSAP PROXY LIST (SYNONYM: PXY)
XUOPTWHO	Option Access By User	Run Routine	Routine: XQ55	This option prompts for a menu option, and then prints a list of which users can


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				access this option. The list can be printed with or without the menu paths to the option.
XUOUT	Out of Service Set/Clear	Edit		This option controls whether a device is out of order or <i>not</i> . If set Out of Order by this option, a device <i>cannot</i> be used for logon.
XUPMDISP	Display of Programmer Mode Entry List	Print		This displays which users entered into programmer mode, sorts by user name, and then date/time. It prompts for a print device to generate a hard copy if desired. It gives count of entries by user.
XUPMPURGE	Programmer Mode Entry Log Purge	Run Routine	Routine: PMPURGE^XUAPURGE	This option runs the XUPMPURG routine to purge the log of programmer mode entry.
XUPR RTN CHKSUM	Check Routines on Other CPUs	Run Routine	Routine: XTSUMCK	This option compares the checksum for routines on one system to the checksums for the same routines on another system. It is only for sites that have Compute and Print Servers with different routine directories.
XUPR RTN EDIT	Routine Edit	Action	Entry Action: R !,"ROUTINE: ",X:DTIME I X?1A1.7AN X ^%ZOSF("TEST") I X "ZL @X ^%Z"	This option allows developers on the site manager's staff to edit MUMPS routines. This option is locked with the security XUPROGMODE key.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				 CAUTION: This option is only for developers.
XUPR RTN PATCH	Routines by Patch Number	Run Routine	Routine: %ZTPTCH	This option prints routines associated with a patch. You <i>must</i> enter a list of routines and then the output will be by patch numbers.
XUPR- ROUTINE- TOOLS	Routine Tools	Menu		<p>This is the group of programmer options that deal with routines. It includes the following options:</p> <ul style="list-style-type: none"> • XUINDEX • XU FIRST LINE PRINT • XTFCR • XTFCE • XUROUTINE IN • XUPRROU • XUROUTINE OUT • XT-ROUTINE COMPARE • XUPR RTN EDIT • XT-VARIABLE CHANGER • XT-VERSION NUMBER • XTRGRPE • XUPR-RTN-TAPE-CMP • XTRDEL • XUPR RTN PATCH • XUPR RTN CHKSUM • XU CHECKSUM REPORT

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> XU CHECKSUM LOAD
XUPR-RTN- TAPE-CMP	Compare routines on tape to disk	Run Routine	Routine: TAPE^XTRCMP	This option reads a standard DSM %RS tape or disk file or M/11 tape and compares the routines on the tape with a routine with the same name in the current account.
XUPRGL	List Global	Action	Routine: %G Entry Action: <pre>D @ (\$S (^%ZOSF ("OS") ["MSM": "%GL", ^%Z OSF ("OS") ["DTM": " ^g", 1: "%G"])</pre>	This option runs the operating system routine to list specified globals. For MSM this is %GL for other systems it is %G. This option is locked with the XUPROGMODE security key.
XUPRINT	Print Option File	Print		This option produces a formatted listing of the OPTION (#19) file, showing each option and its associated information.
XUPROG	Programmer Options	Menu		This menu is used by developers. It includes the following options: <ul style="list-style-type: none"> XUPROGMODE (SYNONYM: PG) XUPRGL XUERRS XT-NUMBER BASE CHANGER XTSUMBLD (SYNONYM: NTEG) DI DDMAP XT-OPTION TEST XQ UNREF'D OPTIONS

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> • XUPR-ROUTINE-TOOLS • XTSUMBLD-CHECK • XTV MENU • XPD MAIN (SYNONYM: KIDS) • XUROUTINES
XUPROGMODE	Programmer mode	Run Routine	Routine: PRGMODE^%ZO SV	<p>This option drops the programmer into programmer direct mode.</p> <p>This option is locked with the XUPROGMODE security key.</p>
XUPROTOCOL EDIT	Edit a Protocol	Edit	Entry Action: S DLAYGO=101 Exit Action: K DLAYGO I \$D(NAME) S XQORM=\$O(^ORD(101,"B",NAME,0))_";O RD(101,"D XREF^XQORM K XQORM,NAME	This option creates or edits a protocol.
XUPRROU	List Routines	Run Routine	Routine: %ZTPP	This option uses the %ZTPP routine to print a listing of the routines.
XUPS ASSESSMENT DETAIL	XUPS ASSESSMENT DETAIL	Run Routine	Routine: DETAIL^XUPSCLR	List NEW PERSON (#200) file entries that have missing DOB, SSN, or SEX, and NEW PERSON (#200) file statistics.
XUPS ASSESSMENT STATS	XUPS ASSESSMENT STATS	Run Routine	Routine: STATS^XUPSCLR	List NEW PERSON (#200) file statistics for the cleanup.
XUPS NPF CLEANUP MAIN MENU	NPF cleanup main menu	Menu		This is the main menu for the NEW PERSON (#200) file cleanup. It includes the following options (listed in

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				display order): <ul style="list-style-type: none"> • XUPS ASSESSMENT STATS (SYNONYM: STA; DISPLAY ORDER: 1) • XUPS ASSESSMENT DETAIL (SYNONYM: DET; DISPLAY ORDER: 2) • XUPS PREUPDATE NPF REPORTS (SYNONYM: PRE; DISPLAY ORDER: 3) • XUPS UPDATE NEW PERSON FILE (SYNONYM: UPD; DISPLAY ORDER: 4)
XUPS PREUPDATE NPF REPORTS	XUPS PREUPDAT E NPF REPORTS	Run Routine	Routine: EN^XUPSPAID Entry Action: S XUPSACT="PRINT" Exit Action: K XUPSACT	This option reports on all of the NEW PERSON (#200) file entries whose Name, DOB, and/or Sex is different from their corresponding PAID EMPLOYEE file entries, as well as the NEW PERSON (#200) file entries that will be updated.
XUPS UPDATE NEW PERSON FILE	XUPS UPDATE NEW PERSON FILE DATA	Run Routine	Routine: EN^XUPSPAID Entry Action: S XUPSACT="UPDATE"	This option updates NEW PERSON (#200) file entries with data from the PAID EMPLOYEE file.
XUPS VISTALINK	XUPS VISTALINK	Broker (Client /	RPC: XUPS	This option is an RPC Broker Client / Server


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
		Server)	PERSONQUERY	option.
XURELOG	Restart Session	Action	Entry Action: S: '\$D(XQCH) XQCH="REST" G: '\$L(XQCH)>2 REST^XQ12 S XQUR="REST" G X PRMP^XQ12	This option returns a user to the signon logic, so that a session can be restarted without dropping a telecommunication line.
XURESJOB	Kill off a users' job Synonym: RJD	Action	Entry Action: W: '\$D(^%ZOSF("RESJOB")) !,*7,"NOT AVAILABLE" X: '\$D(^("RESJOB")) ^("RESJOB") Exit Action: D ^XUTMRJD ;call TaskMan utility to adjust the list of running tasks	This option uses the MUMPS vendor's exit forcing utility to allow the system manager to forcibly exit MUMPS jobs. An exit action on this option allows the system manager to adjust TaskMan's list of running tasks if some of the processes forcibly exited were tasks. This option is locked with the XUMGR security key.
XUROUTINE IN	Input routines	Action	Entry Action: N % S %=\$G(^%ZOSF("OS"))) D @\$S(%["OpenM": "^%RI", %["DTM": "^%rload", %["GT.M": "^%RI", 1: "%RR")	Loads routines from an external device, like a host file.  CAUTION: Do not use this option if you are not sure how to run it!
XUROUTINE OUT	Output routines	Action	Entry Action: N % S %=\$G(^%ZOSF("OS"))) D @\$S(%["GT.M": "^ZR O", %["OpenM": "^%RO", %["DTM": "^%rsave", 1: "%RS")	This routine outputs routines to an external device, such as a host file.
XUROUTINES	Routine Management Menu	Menu		This menu contains various Kernel options relating to the

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				management of routines on the system. It includes the following options: <ul style="list-style-type: none"> • XTMOVE • XTRDEL • XTMOVE-IN • XUPPROU • XU FIRST LINE PRINT
XUS KAAJEE PROXY LOGON	KAAJEE PROXY BROKER CONTEXT	Broker (Client/ Server)	RPC: XUS KAAJEE GET USER VIA PROXY	This is the KAAJEE Application User Broker Context option.
XUS KAAJEE WEB LOGON	KAAJEE BROKER CONTEXT	Broker (Client / Server)	RPCs: <ul style="list-style-type: none"> • XUS KAAJEE GET USER INFO • XUS KAAJEE LOGOUT • XUS ALLKEYS • XUS KAAJEE GET CCOW TOKEN 	This option is an RPC Broker Client/Server option.
XUS NPI CBO LIST	List of NPI data for CBO	Run Routine	Routine: CBOLIST^XUSNPIED	This option lists providers related to the NPI rollout. This list is sent to the CBO on a monthly basis for tracking status of the rollout.
XUS NPI ENTER NPI FOR PROVIDER	Add/Edit NPI values for Providers	Run Routine	Routine: CLEREDIT^XUSNPIED	This option is intended for support staff to be able to enter data related to an NPI value for providers.
XUS NPI EXEMPT PROVIDER	Mark/Unmark Provider Exempt from requiring an	Run Routine	Routine: CLERXMPT^XUSNPIED	This option is used by support staff to indicate that a provider who has a Person Class entry


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
	NPI			relating to a taxonomy value that would normally require and NPI value, as <i>not</i> needing one (e.g., if the provider were doing administrative work full time).
XUS NPI EXTRACT	XUS NPI EXTRACT REPORT	Run Routine	Routine: TASKMAN^XUSNPIX1	This option compiles the NPI Extract file and emails it to XXX@Q-NPS.VA.GOV
XUS NPI LOCAL REPORTS	Print Local NPI Reports	Run Routine	Routine: PRINTOPT^XUSNPIED	This option generates reports for the local facility on those who are expected to have NPI values entered.
XUS NPI MENU	NPI (National Provider ID) Menu	Menu		<p>This menu provides the ability to enter data for a provider related to the National Provider ID. It includes the following options:</p> <ul style="list-style-type: none"> • XUS NPI ENTER NPI FOR PROVIDER • XUS NPI EXEMPT PROVIDER • XUS NPI LOCAL REPORTS <p>This option is locked with the XUSNPIMTL security key.</p>
XUS NPI PROVIDER SELF ENTRY	PROVIDER NPI SELF ENTRY	Run Routine	Routine: USEREDIT^XUSNPIED	This option provides the ability for a provider to enter his/her own NPI value and effective date. It is intended to be attached to the XU COMMON menu and checks for whether the user selecting it has the need to enter an

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				NPI value.
XUS NPI SIGNON CHECK	NPI Signon Check	Action	Entry Action: D SIGNON^XUSNPID	This option checks a user's signon to see whether the user needs to enter an NPI value. If so, a message is displayed to the user.
XUS SIGNON	Kernel sign-on context	Broker (Client / Server)	RPCs: <ul style="list-style-type: none"> • XUS SIGNON SETUP • XUS AV CODE • XUS INTRO MSG • XUS CVC • XUS AV HELP • XUS DIVISION SET • XUS GET USER INFO • XUS DIVISION GET • XWB GET BROKER INFO • XUS GET TOKEN • XUS CCOW VAULT PARAM • XUS GET CCOW TOKEN 	This option is an RPC Broker Client/Server option.
XUSAP PROXY LIST	Proxy User List	Print		This option runs a VA FileMan (FM) print to show any users that have a USER CLASS of APPLICATION PROXY or CONNECTOR PROXY.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XUSAZONK	Purge of the %ZUA global	Run Routine	Routine: PURG^ZUA[MGR] Entry Action: S XUSLNT=1 Exit Action: K XUSLNT	This option purges the FAILED ACCESS ATTEMPTS and PROGRAMMER MODE ACCESS logs of all entries older than 30 days.
XUSC LIST	Print Sign-on Log	Print		This option prints the SIGN-ON LOG.
XUSCZONK	Purge Sign- On log	Run Routine	Routine: SCPURG^XUSPU RGE	This option purges the SIGN-ON LOG. All entries older than 30 days are removed permanently from the file.
XUSEC ISO ACTIVE USER EXTRACT	Special Active User Excel output	Print		This option produces a special Microsoft® Excel formatted output.
XUSEC ISO Q TERMINATION REPORT	Queueable ISO Terminated User Report	Print		This is a queueable version of the ISO's termination date report. The report dates are from the current date minus eight (8) days to the current date minus one (1) day.
XUSEC ISO TERMINATION REPORT	ISO's Terminated User Report	Run Routine	Routine: EP1^XUSECAD	This is the interactive option for the ISOs, where the user can select beginning and ending dates.
XUSEC UP ARROW TERM REPORT	Up Arrow Delimited Termination Report	Run Routine	Routine: EP1^XUSECAD Entry Action: S XUSECU=""	This option produces a report that is a caret (^ ; aka Up-Arrow) delimited termination report that can be used as a spread sheet. It is suggested that the report be sent to an HFS device. If the screen is used, it will require a 132 -column

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				width.
XUSEC ISO ACTIVE USER EXTRACT	Special Active User Excel Output	Print		<p>This option is used by the Information Security Officer (ISO) to extract information to Microsoft® Excel for the 2008 SMART Database.</p> <p> NOTE: This option was requested by OCIS and released with Kernel Patch XU*8.0*424.</p>
XUSER	User Management	Menu		<p>This menu is used to add, change, and delete users from the NEW PERSON (#200) file, as well as clear devices for signon purposes. It includes the following options:</p> <ul style="list-style-type: none"> • XUSERNEW (DISPLAY ORDER: 5) • XUSEREDIT (DISPLAY ORDER: 15) • XUSERREACT (DISPLAY ORDER: 25) • XUSERDEACT (DISPLAY ORDER: 20) • XUTESTUSER (DISPLAY ORDER: 40) • XUSERINQ (DISPLAY ORDER: 35) • XUFILEACCESS (DISPLAY ORDER: 30)

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				45) <ul style="list-style-type: none"> • XUSESIG CLEAR (DISPLAY ORDER: 60) • XUSERBLK (DISPLAY ORDER: 10) • XUSESIG BLOCK • XUSERREPRINT • XUSER FILE MGR • XU-PERSON CLASS EDIT • XU-CLINICAL TRAINEE MENU • XUOPTWHO (SYNONYM: WHO) • XU-INACTIVE PERSON CLASS USERS
XUSER DIV CHG	Change my Division	Run Routine	Routine: DIVCHG^XUSER 1	<p>This option changes the division to which you are currently assigned. It performs the same function as entering your current division at the "Select DIVISION: default division //" signon prompt.</p> <p>If you only have one division to select from, XUSER DIV CHG shows you your current division and indicates that you <i>cannot</i> change it.</p>
XUSER FILE MGR	Manage User File	Menu		<p>This menu manages the NEW PERSON (#200) file. It includes the following options:</p> <ul style="list-style-type: none"> • XUSERPURGEAT T

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> • XUSERAOLD • XUSER KEY RE-INDEX
XUSER KEY RE-INDEX	Reindex the users key's	Run Routine	Routine: IXKEY^XUSMGR	This option re-indexes the NEW PERSON (#200) file KEY subfield.
XUSER PC BUILD	User PC build Print	Print		<p>This option prints a list of users in the NEW PERSON (#200) file who hold the PROVIDER security key <i>and</i> have a Verify code.</p> <p>This option is <i>not</i> attached to a menu but can be added to the secondary menu of any user who will be working on this project and then removed when the project is complete.</p> <p>This option prints the following fields:</p> <ul style="list-style-type: none"> • NAME • PERSON CLASS (Free Text) • PROVIDER TYPE (Set of Codes). <p> NOTE: The last two fields can only contain data at sites that have implemented the Decision Support System (DSS).</p>
XUSER PC BUILD EDIT	User PC build Edit	Edit		<p>This option allows the rapid data entry (R/S) of Person Class data.</p> <p>This option is <i>not</i> attached to a menu but</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				can be added to the secondary menu of a user who will be performing data entry and then removed when the project is complete.
XUSER SEC OFCR	User Security Menu	Menu		<p>This menu contains options that allow the user to review users on the system. It includes the following options (listed in display order):</p> <ul style="list-style-type: none"> • XUSERINQ (1) • XUSERLIST (2) • XUUSERSTATUS (3) • XU FINDUSER (4) • XUTESTUSER (5) • XQLISTKEY (6) • XQOPACCESS (7) • XUUSEROPT (8) • XUSERDEACT (9) • XUSERREACT (10) • XUSEC ISO TERMINATION REPORT (11) • XUSEC UP ARROW TERM REPORT (12)
XUSER- CLEAR-ALL	Clear all users at startup	Run Routine	Routine: XUS6	This option is to be setup in the SPECIAL QUEUING to run whenever TaskMan starts up. It goes through and clears all users signed-on from the multiple signon restriction.
XUSERAOLD	Purge Log of Old Access	Run Routine	Routine: AOLD^XUSPURG	This option purges all inactive Access and

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
	and Verify Codes		E	Verify codes that are more than 270 to 400 days old. This allows for the recycling of codes after a minimum of 3 changes.
XUSERBLK	Grant Access by Profile	Run Routine	Routine: XUSERBLK	This option adds or edits one or more users according to an existing user profile. The complete profile of the actual or dummy user, menus, and security keys included, is copied to the other users. For new users, security forms are generated. (Use the Help Processor menu to edit the XUSER COMPUTER ACCOUNT help frame containing the text of the forms.) To route forms, be sure that the user profile has a service/section and that the corresponding entry in the SERVICE/SECTION file has a Coordinator. This option is locked with the XUMGR and XUADD security keys and is restricted for use by systems management staff.
XUSERCLR	Clear Terminal	Run Routine	Routine: X6^XUSMGR	This option clears a terminal that has been locked up due to too many errors during signon.
XUSERDEACT	Deactivate a User	Run Routine	Routine: XUSTERM	As of a specified TERMINATION DATE, user will <i>not</i> be allowed

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				to sign on to the computer.
XUSEREDIT	Edit an Existing User	Action	Entry Action: S DIC="^VA(200," ,DI C(0)="AEMQ",DIC("S")="I \$S(\$P(^ (0) ,U,11) : \$P(^ (0) ,U,11)' <DT ,1:1)" D ^DIC K DIC Q:Y=-1 S DA=+Y,DR="[XUEXIS TING USER]" ,DIE="^VA(2 00," D XUDIE^XUS5 K D0,DA,DIE,DR	This option edits a user's characteristics. Users that have been terminated <i>cannot</i> be edited.
XUSEREDITSE LF	Edit User Characteristi cs	Run Routine	Routine: EUC^XUS5	This option edits certain user attributes as defined by the KERNEL SYSTEM PARAMETERS (#8989.3) file. At most, the user can edit their own VERIFY CODE, AUTO-MENU, TYPE-AHEAD, and NICKNAME. This can vary at your site. A user can also edit the SUBTYPE of their device.
XUSERINQ	User Inquiry	Inquire	Routine: USERINQ^XUSM GR	This option displays various user attributes. If the user is currently signed on, it displays the job and device numbers, the signon time, and what option is being executed. Otherwise, it displays the last signon time. It also displays which security keys are held by this user.
XUSERINT	Introductory text edit	Action	Entry Action: W !!,"Enter introductory text	This option edits the introductory text that is displayed each time

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
			to be displayed at each logon",!! S DIE="^XTV(8989.3, ",DA=1,DR=240 D ^DIE	the user signs on.
XUSERLIST	List users	Print		This message lists users known to the system.
XUSERNEW	Add a New User to the System	Run Routine	Routine: XUSERNEW	This option adds a new user to the system.
XUSERPOST	Post sign-in Text Edit	Action	Entry Action: W !!,"Enter Post Logon Text to be displayed after each logon.",!! S DIE="^XTV(8989.3, ",DA=1,DR=245 D ^DIE	This option displays the logon text after a user signs onto the system.
XUSERPURGE ATT	Purge Inactive Users' Attributes	Run Routine	Routine: XUSTERM1	This utility cleans up files. It removes all mailboxes and messages, mail groups, and security keys for users who have been terminated. If any of these users still retain Access codes, these will be deleted.
XUSERREACT	Reactivate a User	Run Routine	Routine: REACT^XUSERN EW	This option reactivates a user who has a TERMINATION DATE. You are asked to enter their ACCESS CODE. If you give him/her an Access code (or if he/she still has one), their TERMINATION DATE is removed.
XUSERREL	Release user	Run Routine	Routine: X8^XUSMGR	This option clears the record that a user is signed on to another terminal. It may seem that a user is signed on


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				when there is an abnormal exit, such as an error or entry into Programmer Mode.
XUSERREPRINT	Reprint Access agreement letter	Run Routine	Routine: REPRINT^XUSER NEW	This option allows a site manager to reprint the computer access agreement letter. It will <i>not</i> reprint the Access code on the letter.
XUSERTOOLS	User's Toolbox	Menu		This menu provides several different utilities designed for the average user. It includes the following options: <ul style="list-style-type: none"> • XQTUSER • XU-SPL-MENU • XUSEREDITSELF • XUUSERDISP • XUUSERHELP • XUSESIG • XUTM USER • XUSER DIV CHG
XUSERVDISP	Server audit display	Print		This option displays the server-type option audit data.
XUSERWHERE	Where am I?	Action	Entry Action: D GETENV^%ZOSV W !!,"UCI: ", \$P(Y,U) , " VOLUME SET: ", \$P(Y,U,2) W : \$P(Y,U,3)] "" " NODE: ", \$P(Y,U,3) W !," DEVICE: ", \$I,\$S(\$D(IO("IP "))):" ("_IO("IP")_")",1:"")	This option shows a user their environment. Changed from showing IO("ZIO") to IO("IP").
XUSESIG	Electronic Signature code Edit	Run Routine	Routine: XUSESIG	This option edits a user's INITIALS, SIGNATURE BLOCK TITLE, ELECTRONIC

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				SIGNATURE CODE, and OFFICE PHONE.
XUSESIG BLOCK	Electronic Signature Block Edit	Run Routine	Routine: EN^XUSESIG2	This option gives access to the Signature Block of the Electronic Signature. This is automatically set by a cross-reference of the NAME field. If it is changed with this option, it <i>must</i> contain the last name from the NAME field. Also, if the NAME field is changed this field will be changed and may need to be re-edited.
XUSESIG CLEAR	Clear Electronic signature code	Run Routine	Routine: CLEAR^XUSESI G	This option allows the site manager to clear (delete) a user's electronic signature code, so they may enter a new one.
XUSESIG DEG	EDUCATION (Degree) File Edit	Edit	DIC(20.11,	This option is used to edit degree entries in the EDUCATION (#20.11) file. These entries define valid degrees that users can enter in the DEGREE (#10.6) field in the NEW PERSON (#200) file.
XUSFACHK	Check Failed Access Log	Run Routine	Routine: FAILED^XUSFAC HK	This option runs the Failed Access Check routine XUSFACHK . It looks to see if there have been a large number of failed access attempts, since the routine was last run. If it finds that the number of failed access attempts is greater than the limit in

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				the FAILED ATTEMPTS LIMIT - IRM field in the KERNEL SYSTEM PARAMETERS (#8989.3) file during normal business hours (8:00 a.m. to 4:30 p.m.) it sends a message to the mail group stored in the IRM MAIL GROUP field or the limit set in the FAILED ATTEMPTS LIMIT – AOD field in the KERNEL SYSTEM PARAMETERS (#8989.3) file after hours, it sends a message to the mail group in the AFTER HOURS MAIL GROUP.
XUSITEMGR	Operations Management	Menu		<p>This menu contains options of use to the site manager, such as options for managing Kernel site parameters, sign-on log, introductory text, etc. It includes the following options:</p> <ul style="list-style-type: none"> • XUSERINT (DISPLAY ORDER: 5) • XUSTATUS (DISPLAY ORDER: 1) • XUSTAT (DISPLAY ORDER: 6) • XQ XUTL \$J NODES • XQAB MENU • XURESJOB


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				(SYNONYM: RJD) <ul style="list-style-type: none"> • XUOPTUSER • XUKERNEL • XQALERT DELETE OLD • XUSERPOST • XQALERT MGR • XWB MENU • XOBU SITE SETUP MENU • XLFIPV IPV4 IPV6 MENU (SYNONYM: IPV) • XULM LOCK MANAGER MENU (SYNONYM: LOCK)
XUSITEPARM	Enter/Edit Kernel Site Parameters	Action	Entry Action: W !!, "Note: the TaskMan site parameters have been moved out of this file.", !, "Use the Edit TaskMan Parameters option to edit those values.", ! S DA=1, DR="" [XUSITEP ARM] ", DIE=8989.3 D XUDIE^XUS5 Exit Action: K DA, DIE, DR	This option edits the KERNEL SYSTEM PARAMETERS (#8989.3) file. It contains fields for default system values, lifetime of Verify code, auto-generation of Access codes, and name of user- characteristic edit template.
XUSPY	Information Security Officer Menu	Menu	Entry Action: D ^ASTR2	This menu is for the person serving as the Information Security Officer (ISO). It includes the following options: <ul style="list-style-type: none"> • XUSER SEC OFCR (DISPLAY ORDER: 1) • XUFILEACCESS SEC OFCR

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				(DISPLAY ORDER: 2) <ul style="list-style-type: none"> • XU SEC OFCR (DISPLAY ORDER: 3) • XUAUDIT MAINT (DISPLAY ORDER: 4) • XUMNACCESS (DISPLAY ORDER: 5) • DG SECURITY OFFICER MENU (DISPLAY ORDER: 6) • XUSEC ISO ACTIVE USER EXTRACT • 452 SECURITY LOG BY USER (SYNONYM: SL3)
XUSSPKI CRL UPLOAD	PKI CRL Upload	Run Routine	Routine: CRLUP^XUSSPKI	This option should be scheduled to run every hour to send any new URL for the CRLs to be collected by the PKI verification server.
XUSSPKI EDIT	Kernel PKI Parameter Edit	Action	Entry Action: N DA,DR,DDSFILE S DA=1,DR="" [XUSSPKI]" ,DDSFILE=8989.3 D ^DDS	This option runs the XUSSPKI form to edit the PKI server IP address.
XUSSPKI UPN SET	ePCS Set SAN from PIV Card	Broker (Client/ Server	RPCs: <ul style="list-style-type: none"> • XUS PKI GET UPN • XUS PKI SET UPN 	This is a Broker-type context option that sets the SUBJECT ALTERNATIVE NAME (#501.2) field (aka SAN field or USER PRINCIPLE NAME) in the NEW PERSON (#200) file from the Personal Identification Verification (PIV) Smart Card. This is used with


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>the DEA ePCS electronic signature (e-sig) to be sure the correct certificate is selected from the PIV card.</p> <p> NOTE: This option only needs to be run once for a user at a site.</p> <p>It was released with Kernel Patch XU*8.0*580.</p>
XUSTAT	CPU/Service /User/Device Stats	Run Routine	Routine: XUSTAT	This option gives you a system utilization report for CPUs, Services, or users.
XUSTATUS	System Status	Action	Entry Action: <code>W @IOF N DUZ,DT,DTIME X:\$D(^%ZOSF("SS"))#2 ^("SS") D HOME^%ZIS</code>	This option uses an operating system utility to show all current jobs signed onto the computer.
XUTERM	Terminal Type Edit	Edit		This option edits the TERMINAL TYPE (#3.2) file.
XUTESTUSER	Switch Identities	Run Routine	Routine: TESTM^XUS91	This option simulates signing on as another user, and thus, tests out a user's menus. It assigns all security keys but will <i>not</i> allow for the execution of any options.
XUTIME	Time	Action	Entry Action: <code>W !!,\$\$HTE^XLFD(\$H ,"P")</code>	This command displays the time and date.
XUTIO	Device Management	Menu		This menu maintains the DEVICE (#3.5) file, which defines the characteristics of each device attached to the

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>computer. It includes the following options:</p> <ul style="list-style-type: none"> • XUTERM (DISPLAY ORDER: 3) • XUDEV (DISPLAY ORDER: 2) • XUOUT (DISPLAY ORDER: 10) • XUDISPLAY (DISPLAY ORDER: 5) • XUCHANGE (DISPLAY ORDER: 1) • XULIST (DISPLAY ORDER: 6) • XUTTEST (DISPLAY ORDER: 9) • XUTLOOPBACK (DISPLAY ORDER: 8) • XUSERCLR (DISPLAY ORDER: 7) • XU DA EDIT • XUDEVEDIT • XUDEV LINEPORT ADDR CURRENT • XUDEV LINEPORT ADDR EDIT • XUDEV LINEPORT ADDR RPT • XUDEV RES-ONE • XUDEV RES-CLEAR
XUTLOOPBAC	Loopback Test of	Action	Entry Action: D ^%ZIS Q:POP X	This option tests a terminal line with the

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
K	Device Port		<pre> ^%ZOSF("EOFF"),^% ZOSF("TYPE- AHEAD"),"F I=65:1:90 U IO W *I R *X:1 U IO(0) W:X>32 \$C(X)" X ^%ZOSF("EON"),^%Z IS("C") </pre>	use of a loopback connection on the line. A loopback connector just ties pins 2, 3 together.
XUTM BACKGROUND PRINT	Print Options that are Scheduled to run	Print		<p>This option prints a list of options from the OPTION SCHEDULING (#19.2) file that have data in one of the background task fields:</p> <ul style="list-style-type: none"> • QUEUED TO RUN AT WHAT TIME • DEVICE FOR QUEUED JOB OUTPUT • RESCHEDULING FREQUENCY • SPECIAL QUEUEING
XUTM BACKGROUND RECOMMENDED	Print Options Recommended for Queueing	Print		This option prints a list of options that have been recommended by the developers for background queueing.
XUTM BVPAIR	Site Parameters Edit	Edit		This option allows the system manager to edit the TASKMAN SITE PARAMETERS (#14.7) file.
XUTM CHECK ENV	Check Taskman's Environment	Run Routine	Routine: ZTMCHK	This option checks TaskMan's environment to make sure that links and global nodes required by TaskMan are present. These checks are the same checks that TaskMan performs every time it is started or restarted.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XUTM CLEAN	Clean Task File	Run Routine	Routine: OPTION^XUTMK	<p>This option cleans out the Task Log for the site manager, removing all entries for tasks that have completed, have been rejected, or have failed with an error. The site manager is asked to specify how old such entries can be before they should be deleted. It then deletes them from ^%ZTSK for all inactive tasks that are older than that.</p> <p> NOTE: This option is <i>not</i> queueable; though, it does create a tasked job to do the actual deletion.</p> <p>ZTMQCLEAN is the queueable version of this option.</p>
XUTM DEL	Delete Tasks	Run Routine	Routine: XUTMD	<p>This option allows users to dequeue their own tasks and delete them from the Task Log. Users can delete either a single task or a range of tasks. Holders of the ZTMQ security key selecting this option can delete any tasks.</p>
XUTM DQ	Dequeue Tasks	Run Routine	Routine: XUTMDQ	<p>This option allows users to dequeue their own tasks. Holders of the ZTMQ security key selecting this option can dequeue any</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				tasks.
XUTM ERROR	Taskman Error Log	Menu		<p>This menu contains options to help the site manager manage TaskMan's log of errors. It includes the following options:</p> <ul style="list-style-type: none"> • XUTM ERROR SHOW (1) • XUTM ERROR LOG CLEAN RANGE (2) • XUTM ERROR PURGE TYPE (3) • XUTM ERROR DELETE (4) • XUTM ERROR SCREEN LIST (5) • XUTM ERROR SCREEN ADD (6) • XUTM ERROR SCREEN EDIT (7) • XUTM ERROR SCREEN REMOVE (8)
XUTM ERROR DELETE	Delete Error Log	Run Routine	Routine: KILL^XUTMKE	This option deletes the Task Error Log.
XUTM ERROR LOG CLEAN RANGE	Clean Error Log Over Range Of Dates	Run Routine	Routine: RANGE^XUTMKE	<p>This option allows the site manager to remove from TaskMan's error log all entries that occur on or between two dates. The site manager enters the two dates, first the earlier date and then the later date, and then the option removes the appropriate entries.</p>
XUTM ERROR PURGE TYPE	Purge Error Log Of Type	Run Routine	Routine: TYPE^XUTMKE	This option provides a way to clean

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
	Of Error			<p>TaskMan's log of errors. The site manager can enter a string, and this option then deletes every entry in the log that contains that string. For example, if the site manager enters "<UNDEF>", then every error that contains this string will be deleted. Two other examples are ZTSK+3^XQ1:4 and E. The first removes all errors that occurred on the line and command indicated while the second removes <i>all</i> errors whose \$ZE value contains an E.</p> <p> NOTE: This does <i>not</i> edit the system's main error log, only TaskMan's Error Log in the ^%ZTSCH global.</p>
XUTM ERROR SCREEN ADD	Add Error Screens	Run Routine	Routine: SCRAD^XUTMKE 2	<p>This option adds more error screens. An error screen is a string of characters that TaskMan compares to the \$ZE value of every error it traps. TaskMan only logs those trapped errors whose \$ZE values do <i>not</i> contain an error screen as a substring. The system manager can choose to have the screen count the number of errors it screens out.</p>

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XUTM ERROR SCREEN EDIT	Edit Error Screens	Run Routine	Routine: SCRED^XUTMKE 2	This option edits error screens. This involves deciding whether or <i>not</i> each edited screen should count the errors that occur while the screen is in place, and whether to reset counters for screens that have already counted some screened errors. The screens themselves are just strings of characters that TaskMan compares against the \$ZE values of all errors it traps. Those errors whose \$ZE values do <i>not</i> contain any screens as substrings are logged, but those that do are <i>not</i> logged.
XUTM ERROR SCREEN LIST	List Error Screens	Run Routine	Routine: SCLIST^XUTMKE 1	This option displays the error screens that are currently in place. An error screen is a string of characters. Any error that TaskMan logs is checked against the list of error screens. If an error occurs whose \$ZE string contains a screen as a substring, then that error is <i>not</i> logged. Some error screens count the number of errors that they prevent from being logged.
XUTM ERROR SCREEN REMOVE	Remove Error Screens	Run Routine	Routine: SCREM^XUTMKE 1	This option removes error screens. Error screens provide the system manager with a way to prevent certain

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<p>errors from being logged.</p> <p>TaskMan traps every error caused by its own code or by the code of the tasks it runs, but the only errors logged in the system error log and in TaskMan's error log are those errors whose \$ZE values do <i>not</i> contain an error screen as a substring. The system manager can decide whether to count the number of errors screened out.</p>
XUTM ERROR SHOW	Show Error Log	Run Routine	Routine: LIST^XUTMKE	This option displays a simple list of the errors recorded by TaskMan.
XUTM INQ	List Tasks	Run Routine	Routine: XUTMQ	This option lists either all tasks currently queued or else all tasks listed in the Task Log.
XUTM MGR	Taskman Management	Menu	Entry Action: W: '\$\$TM^%ZTLOAD *7,!!,"WARNING -- TASK MANAGER DOESN'T SEEM TO BE RUNNING!!!!",!!,* 7	<p>This menu is for site managers. It allows the manipulation of TaskMan. It includes the following options:</p> <ul style="list-style-type: none"> • XUTM SCHEDULE (DISPLAY ORDER: 1) • XUTM BACKGROUND PRINT (DISPLAY ORDER: 7) • XUTM DEL (DISPLAY ORDER: 6) • XUTM REQ (DISPLAY ORDER: 5) • XUTM DQ

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				(DISPLAY ORDER: 4) <ul style="list-style-type: none"> • XUTM UTIL (DISPLAY ORDER: 2) • XU OPTION QUEUE (DISPLAY ORDER: 2) • XUTM INQ (DISPLAY ORDER: 3) • XUTM BACKGROUND RECOMMENDED • XUTM TL CLEAN
XUTM PARAMETER EDIT	Edit Taskman Parameters	Menu		This menu contains the options that edit the TaskMan parameter files. It includes the following options: <ul style="list-style-type: none"> • XUTM BVPAIR • XUTM UCI • XUTM VOLUME
XUTM PROBLEM CLEAR	Problem Device Clear	Run Routine	Routine: CLEAR^XUTMKA	This option clears the Problem Device global.
XUTM PROBLEM DEVICES	Problem Device report	Run Routine	Routine: EN1^XUTMKA	This option runs the XUTMKA routine to produce a list of devices that TaskMan is having problems opening. At the end of the report the Problem Device list is cleared.
XUTM QCLEAN	Queueable Task Log Cleanup	Run Routine	Routine: XUTMK	This option is equivalent to ZTMCLEAN except that this option can be scheduled through the Schedule/Unschedule Options [XUTM SCHEDULE] option to

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				run periodically. This option only keeps completed entries from the last seven (7) days, unless overridden by the DAYS TO KEEP OLD TASKS field in the VOLUME SET file, as well as all queued entries.
XUTM QPROBLEM DEVICES	Queueable Problem Device report	Run Routine	Routines: TASK^XUTMKA	This option is for the queueable version of XUTM PROBLEM DEVICES option. At the end of the report the Problem Device list is cleared.
XUTM REPNT	Repoint waiting tasks to a new port/device	Run Routine	Routine: REPNT^XUTMRP	This option allows the site staff to take all tasks waiting for a given port/LTA device and reschedule them to some new device and/or to a new time. This is useful when a port stops working, and the tasks backed up waiting for it can be sent to another device until it is fixed.
XUTM REQ	Requeue Tasks	Run Routine	Routine: XUTMR	This option requeues a user's own tasks. Users can modify the device that the task is to be run on and also the time that the task is to be run. Holders of the ZTMQ security key selecting this option can requeue any tasks and can also modify the task's priority and partition size.

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
XUTM RESTART	Restart Task Manager	Run Routine	Out of Order Message: Not used in RDP environment Routine: RESTART^ZTMB	This option re-starts TaskMan, if it has failed.
XUTM RP	Change tasks device	Run Routine	Routine: XUTMRP	This option allows site staff to indicate a replacement device and to then repoint and waiting and future tasks to the new device. This is useful when a site renames devices or device becomes dedicated to a special task. This option can also go through the OPTION SCHEDULING (#19.2) file to repoint devices in this file.
XUTM RUN	Remove Taskman from WAIT State	Run Routine	Routine: RUN^ZTMKU	This option places TaskMan in a RUN state, in which TaskMan processes tasks normally, within fifteen seconds.
XUTM SCHEDULE	Schedule/Un schedule Options	ScreenMa n		This option edits the background job fields in the OPTION SCHEDULING (#19.2) file. The result of this action is to schedule or unschedule Task Manager tasks.
XUTM SNAPSHOT	Taskman snapshot	Run Routine	Routine: SNAP^XUTMHR	Schedule this option to grab a snapshot of TaskMan work counts and save them in the TASKMAN SNAPSHOT (#14.72) file. When the Task is

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				scheduled, it takes an entry in the TASK PARAMETERS field. This is how many MINUTES to sample for, “,” and how many SECONDS to wait between samples. It has a limit of 480 minutes (8 hours) and a minimum of 2 seconds to wait. At these limits it would record 14400 samples. It defaults to 60 minutes with a sample every 60 seconds if the TASK PARAMETERS field is <i>not</i> filled in.
XUTM STOP	Stop Task Manager	Run Routine	Routine: STOP^ZTMKU	This option shuts down TaskMan.
XUTM SYNC	SYNC flag file control	Run Routine	Routine: XUTMSYNC	This option runs the SYNC flag file control.
XUTM TL CLEAN	Cleanup Task List	Run Routine	Routine: ASK^XUTMRJD	This option runs the Cleanup Task List.
XUTM UCI	UCI Association Table Edit	Edit		This option allows the system manager to edit the UCI ASSOCIATION (#14.6) file.
XUTM USER	TaskMan User	Run Routine	Routine: XUTMUSE	This option provides end users with information about their current tasks and with the ability to stop or modify and reschedule those tasks.
XUTM UTIL	Taskman Management Utilities	Menu		This menu contains options to assist in managing TaskMan. It includes the following options: <ul style="list-style-type: none"> • XUTM WAIT

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				(DISPLAY ORDER: 5) <ul style="list-style-type: none"> • XUTM RUN (DISPLAY ORDER: 6) • XUTM STOP (DISPLAY ORDER: 7) • XUTM ERROR (DISPLAY ORDER: 8) • XUTM CLEAN (DISPLAY ORDER: 9) • XUTM CHECK ENV (DISPLAY ORDER: 2) • XUTM ZTMON (SYNONYM: MTM) (DISPLAY ORDER: 1) • XUTM PARAMETER EDIT (DISPLAY ORDER: 3) • XUTM SYNC • XUTM RP • XUTM REPNT • XUTM PROBLEM DEVICES • XUTM PROBLEM CLEAR
XUTM VOLUME	Volume Set Edit	Edit		This option allows the system manager to edit the Volume Set file.
XUTM WAIT	Place Taskman in a WAIT State	Run Routine	Routine: WAIT^ZTMKU	This option places TaskMan in a WAIT state, in which TaskMan is active but does <i>not</i> process any

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				tasks, within fifteen seconds.
XUTM ZTMON	Monitor Taskman	Run Routine	Routine: ZTMON	This option continually monitors the status of TaskMan and its queues.
XUTTEST	Send Test Pattern to Terminal	Action	Entry Action: D ^%ZIS I 'POP R "HOW MANY LINES? ,X:DTIME U IO S Y=0 X "F X=X:-1 W ! Q:'X F I=1:1:IOM W \$(I+X#96+32)" X ^%ZIS("C")	This option prints a selected number of nonsense lines on a terminal to test data communications.
XUUSERACC	Diagram Menus	Run Routine	Routine: NORMAL^XQ4	This option displays all of the options available to a given user, including all of the menus and options, according to the security and primary option.
XUUSERACC1	Menu Diagrams (with Entry/Exit Actions)	Run Routine	Routine: FULL^XQ4	This option displays all of the options available to a given user, including all of the menus and options, according to the user's security and primary option. The information displayed includes: <ul style="list-style-type: none"> • Entry Actions • Exit Actions • Prohibited Times • Locks • Option Names • Synonyms
XUUSERACC2	Abbreviated Menu Diagrams	Run Routine	Routine: ABBREV^XQ4	This option provides an abbreviated (Option Names, Menu Text, and Synonyms) display of all the options available to a given

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				user, including all of the menus and options, according to the user's security and primary menu.
XUUSERDISP	Display User Characteristics	Run Routine	Routine: XQUSR	This option displays the user's name, location, and characteristics.
XUUSERHELP	User Help	Action	Entry Action: S XQH="XQ- USERHELP" D EN^XQH	This option displays basic help information for the user.
XUUSEROPT	User Audit Display	Print		This option display sorts by user then by option. It also prompts for print device to generate a hard copy listing.
XUUSERSTATUS	User Status Report	Run Routine	Routine: XUS91	This option produces a report of the users currently signed onto this CPU and this UCI. It shows the option they are running and when they signed on, as well as their device and job numbers.
XUVERSIONEW-HELP	Kernel New Features Help	Action	Entry Action: S XQH="XUDOC NEW FEATURES*" D EN^XQH	This option directs you to a series of help frames describing the new features of Kernel.
XUXREF	List Options by Parents and Use	Run Routine	Routine: XQ31	This option produces a cross-reference listing of all options, showing their parents on the menu tree, detecting bad pointers, and showing which options have no parents. It also shows the uses of the option as a: <ul style="list-style-type: none"> • Primary menu option

Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
				<ul style="list-style-type: none"> • Secondary menu option • Tasked option • Combination of these.
XUXREF-2	Show Users with a Selected primary Menu	Run Routine	Routine: XQ32	<p>This option generates a listing of those users who have a selected option as their Primary menus option or as a Secondary menu option.</p> <p>It does <i>not</i> show all users who might have access to a particular option. It only looks at Primary (signon) menus and top-level secondary menu options.</p>
XUZUSER	User Management	Menu	Entry Action: W *27,*43,!!!!,?20 ,"USER EDIT MENU",! Exit Action: W *27,*43,!!!!!!!!!! !!!!!!!!!!!!!!! !!!!!!!!!!!!!!!	<p>This is a basic user management menu. It includes the following options:</p> <ul style="list-style-type: none"> • XUSERDEACT • XUSERINT • XUSERNEW • XUSERREACT • XUSEREDIT
XUPS ASSESSMENT DETAIL	XUPS ASSESSME NT DETAIL	Run Routine	Routine: DETAIL^XUPSCL R	This option lists NEW PERSON (#200) file entries that have missing DOB, SSN, or SEX, and NEW PERSON (#200) file statistics.
XUPS ASSESSMENT STATS	XUPS ASSESSME NT STATS	Run Routine	Routine: STATS^XUPSCL R	This option lists NEW PERSON (#200) file statistics for the cleanup.
XUPS PREUPDATE	XUPS PREUPDAT	Run Routine	Routine:	This option reports on all of the NEW


Option Name	Option Text	Type	Routine / Action / RPC / Other (Based on Type)	Description
NPF REPORTS	E NPF REPORTS		EN^XUPSPAID Entry Action: S XUPSACT="PRINT" Exit Action: K XUPSACT	PERSON (#200) file entries whose NAME, DOB, and/or SEX is different from their corresponding PAID EMPLOYEE file entries, as well as the NEW PERSON (#200) file entries that will be updated.
XUPS UPDATE NEW PERSON FILE	XUPS UPDATE NEW PERSON FILE DATA	Run Routine	Routine: EN^XUPSPAID Entry Action: S XUPSACT="UPDATE"	This option updates NEW PERSON (#200) file entries with data from the PAID EMPLOYEE file.
XUPS VISTALINK	XUPS VISTALINK	Broker (Client/Server)	RPC: XUPS PERSONQUERY	This is an RPC Broker Client/Server option.
XUS NPI EXTRACT REPORT	XUS NPI EXTRACT REPORT	Run Routine	Routine: TASKMAN^XUSN PIX1	This option compiles the NPI EXTRACT file and emails it to XXX@Q-NPS.VA.GOV
XUS PROC CNT CLUP	XUS Process count cleanup	Run Routine	Routine: CLEAR^XUSCNT (0)	This option is only needed for GT.M sites. For a GT.M site it should be scheduled to run between every 1 to 8 hours. This is the Kernel process count cleanup routine. It checks the entries in XUTL("XUSYS",\$J) to see if they are still active and if <i>not</i> remove the entry.

5.3.2 Toolkit


The following options are distributed with the Kernel Toolkit software “**XT**” namespace; listed alphabetically:

Table 25: Options—Exported Toolkit Options


Option Name	Option Text	Type	Routine	Description
XT-BLD RTN LIST	Routine Summary List	Run Routine	Routine: BUILD^XTRUTL	This option creates a list of routines in a build with before and after checksums, and second line data. This list can be used in a cut and paste operation when preparing a patch.
XT-KERMIT EDIT	Edit KERMIT holding file	Edit		This option allows the user to edit their own holding file. They can change the name, Transfer mode, authorized viewers, and the data.
XT-KERMIT MENU	Kermit menu	Menu	Entry Action: D INIT^XTKERM4 Exit Action: D CLEAN^XTKERM4	This is the top-level menu for Kermit functions. It gives access to the send, receive, and edit options. It includes the following options: <ul style="list-style-type: none"> • XT-KERMIT RECEIVE (SYNONYM: R) • XT-KERMIT SEND (SYNONYM: S) • XT-KERMIT EDIT (SYNONYM: E) • XT-KERMIT SPOOL DL
XT-KERMIT RECEIVE	Receive KERMIT file	Run Routine	Routine: R^XTKERMIT	This option receives a file over the terminal line from a remote system in the KERMIT protocol.
XT-KERMIT SEND	Send KERMIT file	Run Routine	Routine: S^XTKERMIT	This option sends a file from the host via the terminal line to a remote

Option Name	Option Text	Type	Routine	Description
				system in the KERMIT protocol.
XT-KERMIT SPOOL DL	Download a Spool file entry	Run Routine	Routine: KERMIT^ZISPL	This option downloads (sends) a spool document from the SPOOL DOCUMENT (#3.51) file to a local PC using the KERMIT protocol.
XT-NUMBER BASE CHANGER	Number base changer	Run Routine	Routine: XTBASE	This option runs a number base calculator. It allows input in base 2, 8, 10, 16 , and displays the number in all 4 bases. It is locked with the XUPROGMODE security key.
XT-OPTION TEST	Test an option not in your menu	Action	ENTRY ACTION: S DIC=19,DIC(0)="A EMQZ",DIC("A")=" Option entry to test: ",DIC("S")="I \$P(^ (0),U)'["XU PROG"" D ^DIC K DIC I Y>0 S XQY=+Y,XQUR=\$P(Y ,U,2),XQDIC="U", XQY0=^DIC(19,XQY ,0),^("T")=^XUTL ("XQ",\$J,"T")-1 G M0^XQ	This option is for in-house testing of options only. It allows the selection of an option from the OPTION (#19) file and then executes it.  CAUTION: No security checks are performed; therefore, this option should only be given to developers.
XT-PURGE ERRORS	Clean Error Trap	Run Routine	Routine: XTERPUR	This option deletes old errors from the Error Trap. This option is locked with the XUPROGMODE security key.
XT-ROUTINE COMPARE	Compare two routines	Run Routine	Routine: XTRCMP	This option compares two routines located in the current account and prints a list of differences. It uses the MailMan compare

Option Name	Option Text	Type	Routine	Description
				routine to do the work.
XT-RTN CS EDT	Old Checksum Edit	Edit		This option edits the CHECKSUM field in the ROUTINE (#9.8) file that is used by the Routine Summary List.
XT-RTN CS UPDATE	Old Checksum Update from Build	Run Routine	Routine: UPDATE^XTRU TL	This option updates the old checksum of the routine in a build with the routines current checksum value. This option should be run after a patch has been released and before any new editing of the routines takes place.
XT-VARIABLE CHANGER	Variable changer	Run Routine	Routine: XTVCHG	This option runs the XTVCHG routine that does a fair job of changing all occurrences of a variable to another. It changes DOs and GOTOs also, but does <i>not</i> change the TAG. This option is locked with the XUPROGMODE security key.
XT-VERSION NUMBER	Version Number Update	Run Routine	Routine: XTVNUM	This option runs the XTVNUM routine that updates or sets the version number into a set of routines.
XTCM MAIN	Capacity Planning	Menu		This menu holds all the currently available capacity management functions. It includes the following options: <ul style="list-style-type: none"> • KMPS SAGG MANAGER • KMP MAIL GROUP EDIT (SYNONYM: CMG) • KMPR RUM


Option Name	Option Text	Type	Routine	Description
				MANAGER MENU (SYNONYM: RUM) <ul style="list-style-type: none"> • KMPD CM TOOLS MANAGER MENU (SYNONYM: TLS)
XTFCE	Flow Chart from Entry Point	Run Routine	Routine: XTFCE	This option produces a flow chart on the terminal screen of the processing performed from the specified entry point to the termination of processing resulting from that entry point. It also permits the user to expand the code in other routines or entry points referenced by DO or GOTO commands.
XTFCR	Flow Chart Entire Routine	Run Routine	Routine: XTFCR	This option produces a flow chart of the processing performed within a routine.
XTLATSET	VAX DSM Device Set-up	Run Routine	Routine: XTLATSET Entry Action: <pre> S DIR(0)="Y",DIR(" A")="Want to proceed",DIR("A" ,1)="Do not use unless you are in the startup account",DIR("A" ,2)="where the correct VMS files are present!",DIR("B ")="No",DIR("?") ="See option description" D ^DIR K DIR S:Y'=1!\$D(DIRUT) XQUIT="" </pre>	 CAUTION: Do not run this option without first understanding how it works and what will result. It assumes the existence of a SYSPRINT.COM file, which is a VMS command file originally distributed by the DHCP Cookbook team. The LAT\$STARTUP file is also involved in the process.

Option Name	Option Text	Type	Routine	Description
				<p>This option runs the XTLATSET routine. The purpose is to allow system managers to keep the Kernel and VMS device tables synchronized with the least amount of effort. Those who prefer to use the VMS editor to modify the VMS device tables according to changes in the Kernel DEVICE (#3.5) file will <i>not</i> want to use this option.</p> <p>This option can be used when first moving Kernel to a VMS environment. It can be used thereafter to rebuild the files if they are <i>not</i> in sync. When running this option, it is critical to be in the configuration that has a complete Kernel DEVICE (#3.5) file, one with all the VMS devices used by any other configuration. The VMS files that are built are automatically used at the next VMS startup.</p> <p>This option runs the XTLATSET routine to build VMS command files to coordinate the Kernel and VMS device tables. It reads from the Kernel's DEVICE (#3.5) file for _LTA devices and writes three VMS command files:</p> <ul style="list-style-type: none"> • LT_LOAD.COM file sets up printers in LATCP. • The LT_PRT.DAT

Option Name	Option Text	Type	Routine	Description
				<p>file is read by SYSPRINT.COM to set VMS parameters for printers and other devices and can optionally set up VMS spooling.</p> <ul style="list-style-type: none"> The TSC_LOAD.COM file establishes printer parameters to be used in the DEC server's device tables. <p>This option is locked with the XUMGR security key.</p> <div>  <p>CAUTION: This option should be used with care. The process should be reviewed beforehand to be sure that other VMS device settings are <i>not</i> altered in an unexpected way. It is assumed that the system has been configured with knowledge of the DHCP Cookbook recommendations.</p> </div>
XTLKLKUP	Multi-Term Lookup (MTLU)	Run Routine	Routine: A^XTLKTICD	This is a test lookup option. It tests what has been entered and how the package does the lookup.

Option Name	Option Text	Type	Routine	Description
XTLKMODKY	Keywords	Action	Entry Action: S XTLKOP="Keywords" " D KE^XTLKEFOP K XTLKOP	This is the option that allows the user to enter/edit the LOCAL KEYWORD (#8984.1) file.
XTLKMODPAR K	Delete Entries From Look-up	Run Routine	Routine: DD^XTLKEFOP	This option is used to delete entries out of the LOCAL LOOKUP (#8984.4) file. There cannot be any Keywords, Shortcuts, or Synonyms associated with the file to be deleted, in order to do this. This option is locked with the XTLKZMGR security key.
XTLKMODPAR S	Add Entries To Look-Up File	Run Routine	Routine: LL^XTLKEFOP	This option sets entries into the LOCAL LOOKUP (#8984.4) file. This option is locked with the XTLKZMGR security key.
XTLKMODSH	Shortcuts	Action	Entry Action: S XTLKOP="Shortcut s" D SH^XTLKEFOP K XTLKOP	This option is to enter/edit Shortcuts in the LOCAL SHORTCUT (#8984.2) file.
XTLKMODSY	Synonyms	Action	Entry Action: S XTLKOP="Synonyms" " D SY^XTLKEFOP K XTLKOP	This option is to enter/edit Synonyms in the LOCAL SYNONYM (#8984.3) file.
XTLKMODUTL	Add/Modify Utility	Menu		This is a menu for the enter/edit options of the KEYWORD, SHORTCUT, and SYNONYM files. It includes the following options (listed in display order): <ul style="list-style-type: none"> • XTLKMODSH (1; SYNONYM: SH) • XTLKMODKY (2; SYNONYM: KE)


Option Name	Option Text	Type	Routine	Description
				<ul style="list-style-type: none"> • XTLKMODSY (3; SYNONYM: SY)
XTLKPRTUTL	Print Utility	Action	Entry Action: D A^XTLKPRT	This option is used to print out the Keywords, Shortcuts, and Synonyms.
XTLKUSER2	Multi-Term Lookup Main Menu	Menu		<p>This is the main option for the MTLU package. It includes the following options:</p> <ul style="list-style-type: none"> • XTLKPRTUTL • XTLKLKUP • XTLKUTILITIES
XTLKUTILITIES	Utilities for MTLU	Menu		<p>This is the utilities menu for MTLU. It includes the following options:</p> <ul style="list-style-type: none"> • XTLKMODUTL • XTLKMODPARS (SYNONYM: ST) • XTLKMODPARK (SYNONYM: KL) <p>This menu is locked with the XTLKZMGR security key.</p>
XTMENU	Application Utilities	Menu		<p>This menu contains utilities that can be used by an application programmer. It includes the following options:</p> <ul style="list-style-type: none"> • XTLKUSER2 • XDR MAIN MENU
XTMOVE	Move Routines across Volume Sets	Run Routine	Routine: %ZTMOVE	<p>This option runs the %ZTMOVE routine. It moves routines from one volume set to another. A specified set of routines can be moved to a specified UCI on a different volume set in one step (automatically) or in two steps. The second step requires use of the Bring in Sent Routines</p>

Option Name	Option Text	Type	Routine	Description
				<p>[XTMOVE-IN] option in the destination UCI/Volume Set. This second option brings in the sent routines by running IN^%ZTMOVE. This option is locked with the XUPROGMODE security key.</p>
XTMOVE-IN	Bring in Sent Routines	Run Routine	Routine: IN^%ZTMOVE	<p> CAUTION: This option is only to be used after invoking the Move Routines across Volume Sets [XTMOVE] option.</p> <p>When in the destination UCI/Volume Set, this option installs the routines that were previously sent. This option is locked with the XUPROGMODE security key.</p>
XTOOLS	Programmer tools	Menu		<p>This is a menu to link and document programmer tools that are part of Kernel. Not all of the items will make sense to use from a menu. It includes the following options:</p> <ul style="list-style-type: none"> • XT-VERSION NUMBER • XT-VARIABLE CHANGER • XT-NUMBER BASE CHANGER • XT-ROUTINE COMPARE • XTFCR

Option Name	Option Text	Type	Routine	Description
				(SYNONYM: FCR) <ul style="list-style-type: none"> • XTFCE (SYNONYM: FCE) This menu is locked with the XUPROGMODE security key.
XTQUEUEABLE OPTIONS	Toolkit Queueable Options	Menu		This menu, which has no parent, collects together all of the parentless Toolkit options that are intended to be scheduled through the TaskMan Schedule/Unschedule Options [XUTM SCHEDULE] option.
XTRDEL	Delete Routines	Run Routine	Routine: %ZTRDEL	This option runs the %ZTRDEL routine to delete one or more routines. This option is locked with the XUPROGMODE security key.
XTRGRPE	Group Routine Edit	Run Routine	Routine: XTRGRPE	This option calls the XTRGRPE routine to edit a group of routines. Once several routines are identified, the Kernel %Z editor is called. This option is locked with the XUPROGMODE security key.
XTRMONITOR	Monitor Routines for Changes	Run Routine	Routine: XTRMON	This option schedules the XTRMON routine to Monitor routines for changes. It uses the ROUTINE MONITOR field in the KERNEL SYSTEM PARAMETERS (#8989.3) file to control if all routines or just

Option Name	Option Text	Type	Routine	Description
				selected N-spaces should be monitored. The checksum that is calculated is stored in the routine file along with the date that it changed. It also goes through the ROUTINE (#9.8) file and checks that all of the routines are still in the UCI. This keeps the ROUTINE (#9.8) file current for KIDS. The output of the routine is the XTRMON bulletin that is sent to the attached mail group.
XTSUMBLD	Build an 'NTEG' routine for a package	Run Routine	Routine: XTSUMBLD	This option gets a package namespace from the PACKAGE (#9.4) file. It then lists routines from the user. It then builds a <namespace>NTEG routine that has a checksum for each of the routines. This routine can be run to see if there has been any change to a routine since the NTEG routine was built.
XTSUMBLD-CHECK	Calculate and Show Checksum Values	Run Routine	Routine: CHCKSUM^XTSUMBLD	This option calls CHCKSUM^XTSUMBLD to calculate and show the checksum value for one or more routines in the current account. This value is referenced in the Patch Module description for routine patches.
XTV EDIT VERIF PACKAGE	Edit Verification Package File	Edit		This option is used to enter or edit files and namespaces in the PACKAGE (#9.4) file.
XTV MENU	Verifier Tools	Menu		This menu contains

Option Name	Option Text	Type	Routine	Description
	Menu			<p>options that are available as tools for verification during program development. It includes the following options:</p> <ul style="list-style-type: none"> • XTVR COMPARE (DISPLAY ORDER: 20) • XTVR UPDATE (DISPLAY ORDER: 5) • XTVG COMPARE • XTVG UPDATE • XTV EDIT VERIF PACKAGE • XTVR MOST RECENT CHANGE DATE • XTVR RESTORE PREV ROUTINE
XTVG COMPARE	Global Compare for selected package	Run Routine	Routine: XTVGC2	This option is used to produce a listing of changes in the global structure, including file protection and templates, and a previously stored version of the package (using the Accumulate Global [XTVGC UPDATE] option).
XTVG UPDATE	Accumulate Globals for Package	Run Routine	Routine: XTVGC1	This option accumulates the current globals for a package for comparison with subsequent versions. The global data is accumulated for the ^DIC(fn,0 , the ^DD(fn , nodes where fn is an included file number), and the Edit, Print, and Sort templates for the files indicated as related to the package in the

Option Name	Option Text	Type	Routine	Description
				PACKAGE (#9.4) file.
XTVR COMPARE	Routine Compare - Current with Previous	Run Routine	Routine: XTVRC2	This option compares one or more current routines to previous versions that have been recorded using the Update with current routines option. Differences between the current version and the indicated number of prior versions are noted.
XTVR MENU	Verifier Tools Menu	Menu		This menu contains options that are available as tools for verification during program development. It includes the following options: <ul style="list-style-type: none"> • XTVR COMPARE (DISPLAY ORDER: 20) • XTVR UPDATE (DISPLAY ORDER: 5)
XTVR MOST RECENT CHANGE DATE	Last Routine Change Date Recorded	Run Routine	Routine: XTVRC1A	This option lists the most recent date on which a change was recorded for the selected routines. The date piece of the first line of the routine and version and patch information are also displayed. The version number can be changed, and the routine recorded after that date, but the last change date recorded is that date involving a change in more than the second (version number) line. <div>  CAUTION: The </div>

Option Name	Option Text	Type	Routine	Description
				Update Routine option <i>must</i> have been used one or more times to record the routine and changes to the routine.
XTVR RESTORE PREV ROUTINE	UNDO Edits (Restore to Older Version of Routine)	Run Routine	Routine: XTVRCRE	This option restores a routine back to a previous version that is available in the previous version edits shown by the Routine Compare option. The user <i>must</i> specify a routine name to be used for the restored routine that is <i>not</i> currently used, so that no current routine is destroyed as a result of saving the newly restored routine. After checking that the restored routine is the desired version, the user can rename it as desired.
XTVR UPDATE	Update with current routines	Run Routine	Routine: XTVRC1	This option records the text of the routines indicated in the file used to maintain changes in routines. Only the last version entered is kept completely, previous entries reflect only the changes in lines added and/or deleted to make the next version. This option is used to record the current routine structure, so that it can be compared with future versions of the routine using the Routine Compare - Current with Previous option.

6 Archiving and Purging

6.1 Archiving

There are no software-specific archiving procedures or recommendations for Kernel or Kernel Toolkit.

6.2 Purging

Kernel provides a number of options to facilitate the purging of Kernel files and the cleanup of Kernel-produced globals. [Table 26](#) contains a list of the purging options. The recommended scheduling frequency is shown for some options; all such options are queueable. The Clear All Users at Startup option requires special queueing.



REF: The location of a detailed discussion of each option is given in [Table 26](#); unless otherwise noted, the reference given is to a chapter in the *Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide*.

Table 26: Options—Kernel Purging Options

Purging Option	Frequency	References for More Information
Audited Options Purge		Menu Manager: System Management” chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide & Security Tools Manual</i>
Automatic Deactivation of Users	1 day	Signon/Security: System Management chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Clean Error Log over Range of Dates		TaskMan: System Management—Operation Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Clean Old Job Nodes in ^XUTL	7 days	Menu Management: System Management Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Clean Task File		TaskMan: System Management—Operation Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Clear All Users at Startup		Signon/Security: System Management Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>

Purging Option	Frequency	References for More Information
Clean Error Trap		Error Processing Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Deactivate a User		Signon/Security: System Management Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Delete Error Log		TaskMan: System Management—Operation Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Delete Old (>14 d) Alerts	1 day	Alerts Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Failed Access Attempts Log Purge		Signon/Security: System Management Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide & Security Tools Manual</i>
Programmer Mode Entry Log Purge		Signon/Security: System Management Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide & Security Tools Manual</i>
Purge Error Log of Type of Error		TaskMan: System Management—Operation Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Purge Inactive Users' Attributes		Signon/Security: System Management Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Purge Log of Old Access and Verify Codes	(up to site)	Signon/Security: System Management Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide & Security Tools Manual</i>
Purge of ^%ZUA Global	15 days	Signon/Security: System Management Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>
Purge Old Spool Documents	7 days	Spooling Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>

Purging Option	Frequency	References for More Information
Purge Sign-on Log	1 day	Signon/Security: System Management Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide & Security Tools Manual</i>
Queueable Task Log Cleanup	1 day	TaskMan: System Management—Operation Chapter in the <i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i>



REF: The “KIDS: System Management—Installations” chapter in the *Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide* contains recommendations for purging the INSTALL (#9.7) and BUILD (#9.6) files.

7 Callable Entry Points

This chapter lists all of the callable entry points (i.e., Application Program Interfaces [APIs]) that are available for general use with Kernel and Kernel Toolkit (i.e., supported or controlled subscription).



NOTE: A set of nodes is created during Kernel’s installation that contains operating system-specific code. These nodes are descendent from `^%ZOSF`. Most can be executed in application code.

REF: Each operating system node is described in the “Operating System Interface: Programmer Tools” chapter in the *Kernel 8.0 & Kernel Toolkit 7.3 Developer’s Guide*.

[Table 27](#) lists the Kernel and Kernel Toolkit APIs. It includes the routine name, tag entry point, Integration Control Registration (ICR) number, if any, and a brief description.



REF: Every API and executable node is described in detail in the *Kernel 8.0 & Kernel Toolkit 7.3 Developer’s Guide*. Refer to the appropriate section in that manual for details, including input and output parameters/variables for each API.

Table 27: Kernel and Kernel Toolkit APIs (Callable Entry Points)—Supported and Controlled Subscription

Routine	Entry Point	ICR #	Description
MXMLDOM	\$\$ATTRIB	3561	XML—Get Attribute Name
	\$\$CHILD	3561	XML—Get Child Node
	\$\$CMNT	3561	XML—Extract Comment Text (True/False)
	CMNT	3561	XML—Extract Comment Text (True/False)
	DELETE	3561	XML—Delete Document Instance
	\$\$EN	3561	XML—Initial Processing, Build In-memory Image
	\$\$NAME	3561	XML—Get Element Name
	\$\$PARENT	3561	XML—Get Parent Node
	\$\$SIBLING	3561	XML—Get Sibling Node
	\$\$TEXT	3561	XML—Get Text (True/False)
	TEXT	3561	XML—Get Text (True/False)
	\$\$VALUE	3561	XML—Get Attribute Value
MXMLPRSE	EN	4149	XML—Event Driven API
MXMLUTL	\$\$SYMENC	4153	XML—Encoded Strings in Messages

Routine	Entry Point	ICR #	Description
	\$\$XMLHDR	4153	XML—Message Headers
XGF	CHGA	3173	Screen Change Attributes
	CLEAN	3173	Screen/Keyboard Exit and Cleanup
	CLEAR	3173	Screen Clear Region
	FRAME	3173	Screen Frame
	INITKB	3173	Keyboard Setup Only
	IOXY	3173	Screen Cursor Placement
	PREP	3173	Screen/Keyboard Setup
	\$\$READ	3173	Read Using Escape Processing
	RESETKB	3173	Exit XGF Keyboard
	RESTORE	3173	Screen Restore
	SAVE	3173	Screen Save
	SAY	3173	Screen String
	SAYU	3173	Screen String with Attributes
	SETA	3173	Screen Video Attributes
	WIN	3173	Screen Text Window
XIPUTIL	CCODE	3618	FIPS Code Data
	\$\$FIPS	3618	FIPS Code for ZIP Code
	\$\$FIPSCHK	3618	Check for FIPS Code
	POSTAL	3618	ZIP Code Information
	POSTALB	3618	Active ZIP Codes
XLFCRC	\$\$CRC16	3156	Cyclic Redundancy Code 16
	\$\$CRC32	3156	Cyclic Redundancy Code 32
XLFDT	\$\$%H	10103	Convert Seconds to \$H
	\$\$DOW	10103	Day of Week
	\$\$DT	10103	Current Date (FM Date Format)
	\$\$FMADD	10103	VA FileMan Date Add
	\$\$FMDIFF	10103	VA FileMan Date Difference
	\$\$FMTE	10103	Convert FM Date to External Format
	\$\$FMTH	10103	Convert FM Date to \$H
	\$\$FMTHL7	10103	Convert FM Date to HL7 Date

Routine	Entry Point	ICR #	Description
	\$\$HADD	10103	\$H Add
	\$\$HDIFF	10103	\$H Difference
	\$\$HL7TFM	10103	Convert HL7 Date to FM Date
	\$\$HTE	10103	Convert \$H to External Format
	\$\$HTFM	10103	Convert \$H to FM Date Format
	\$\$NOW	10103	Current Date & Time (FM Format)
	\$\$SCH	10103	Next Scheduled Runtime
	\$\$SEC	10103	Convert \$H /FM date to Seconds
	\$\$TZ	10103	Time Zone Offset (GMT)
	\$\$WITHIN	NONE	Checks Dates/Times Within Schedule
XLFHYPER	\$\$ACOSH	10144	Hyperbolic Arc-cosine
	\$\$ACOTH	10144	Hyperbolic Arc-cotangent
	\$\$ACSCH	10144	Hyperbolic Arc-cosecant
	\$\$ASECH	10144	Hyperbolic Arc-secant
	\$\$ASINH	10144	Hyperbolic Arc-sine
	\$\$ATANH	10144	Hyperbolic Arc-tangent
	\$\$COSH	10144	Hyperbolic Cosine
	\$\$COTH	10144	Hyperbolic Cotangent
	\$\$CSCH	10144	Hyperbolic Cosecant
	\$\$SECH	10144	Hyperbolic Secant
	\$\$SINH	10144	Hyperbolic Sine
	\$\$TANH	10144	Hyperbolic Tangent
XLFIPV	SSCONVERT	5844	Convert any IP Address to Standardized IP Address
	\$\$FORCEIP4	5844	Convert any IP Address to IPv4
	\$\$FORCEIP6	5844	Convert any IP Address to IPv6
	\$\$VALIDATE	5844	Validate IP Address Format
	\$\$VERSION	5844	Show System Settings for IPv6
XLFMSMT	\$\$BSA	3175 & 10143	Body Surface Area
	\$\$LENGTH	3175 & 10143	Convert Length

Routine	Entry Point	ICR #	Description
	\$\$TEMP	3175 & 10143	Convert Temperature
	\$\$VOLUME	3175 & 10143	Convert Volume
	\$\$WEIGHT	3175 & 10143	Convert Weight
XLFMTH	\$\$ABS	10105	Absolute Value
	\$\$ACOS	10105	Arc-cosine (Radians)
	\$\$ACOSDEG	10105	Arc-cosine (Degrees)
	\$\$ACOT	10105	Arc-cotangent (Radians)
	\$\$ACOTDEG	10105	Arc-cotangent (Degrees)
	\$\$ACSC	10105	Arc-cosecant (Radians)
	\$\$ACSCDEG	10105	Arc-cosecant (Degrees)
	\$\$ASEC	10105	Arc-secant (Radians)
	\$\$ASECDEG	10105	Arc-secant (Degrees)
	\$\$ASIN	10105	Arc-sine (Radians)
	\$\$ASINDEG	10105	Arc-sine (Degrees)
	\$\$ATAN	10105	Arc-tangent (Radians)
	\$\$ATANDEG	10105	Arc-tangent (Degrees)
	\$\$COS	10105	Cosine (Radians)
	\$\$COSDEG	10105	Cosine (Degrees)
	\$\$COT	10105	Cotangent (Radians)
	\$\$COTDEG	10105	Cotangent (Degrees)
	\$\$CSC	10105	Cosecant (Radians)
	\$\$CSCDEG	10105	Cosecant (Degrees)
	\$\$DECDMS	10105	Conv. Decimals to Degrees:Minutes:Seconds
	\$\$DMSDEC	10105	Conv. Degrees:Minutes:Seconds to Decimal
	\$\$DTR	10105	Convert Degrees to Radians
	\$\$E	10105	e—Natural Logarithm
	\$\$EXP	10105	e—Natural Logarithm to the Nth Power
	\$\$LN	10105	Natural Log (Base e)

Routine	Entry Point	ICR #	Description
	\$\$LOG	10105	Logarithm (Base 10)
	\$\$MAX	10105	Maximum of 2 Numbers
	\$\$MIN	10105	Minimum of 2 Numbers
	\$\$PI	10105	PI
	\$\$PWR	10105	X to the Y Power
	\$\$RTD	10105	Convert Radians to Degrees
	\$\$SD	10105	Standard Deviation
	\$\$SEC	10105	Secant (Radians)
	\$\$SECDEG	10105	Secant (Degrees)
	\$\$SIN	10105	Sine (Radians)
	\$\$SINDEG	10105	Sine (Degrees)
	\$\$SQRT	10105	Square Root
	\$\$TAN	10105	Tangent (Radians)
	\$\$TANDEG	10105	Tangent (Degrees)
XLFNAME	\$\$BLDNAME	3065	Build Name from Component Parts
	\$\$CLEANC	3065	Name Component Std. Routine
	\$\$FMNAME	3065	Convert HL7 Formatted Name to Name
	\$\$HLNAME	3065	Convert Name to HL7 Formatted Name
	NAMECOMP	3065	Component Parts from Standard Name
	\$\$NAMEFMT	3065	Formatted Name from Name Components
	STDNAME	3065	Name Standardization Routine
XLFNAME2	DELCOMP	3066	Delete Name Components Entry (Controlled Subscription)
	UPDCOMP	3066	Update Name Components Entry (Controlled Subscription)
XLFNSLK	\$\$ADDRESS	3056	Conversion (Domain Name to IP Addresses)
	MAIL	3056	Get IP Addresses for a Domain Name
XLFSHAN	\$\$AND	6157	Bitwise Logical AND
	\$\$CPUTIME	6157	Return System and User CPU Time
	\$\$ETIMEMS	6157	Return Elapsed Time in Milliseconds

Routine	Entry Point	ICR #	Description
	\$\$FILE	6157	Returns SHA Hash for Specified FileMan File or Subfile Entry
	\$\$GLOBAL	6157	Returns SHA Hash for a Global
	\$\$HOSTFILE	6157	Returns SHA Hash for Specified Host File
	\$\$LSHAN	6157	Returns SHA Hash for a Long Message
	\$\$OR	6157	Bitwise Logical OR
	\$\$ROUTINE	6157	Returns SHA Hash for a VistA Routine
	\$\$SHAN	6157	Returns SHA Hash for a Message
	\$\$XOR	6157	Bitwise Logical XOR
XLFSTR	\$\$CJ	10104	Center Justify String
	\$\$INVERT	10104	Invert String
	\$\$LJ	10104	Left Justify String
	\$\$LOW	10104	Convert String to Lowercase
	\$\$REPEAT	10104	Repeat String
	\$\$REPLACE	10104	Replace Strings
	\$\$RJ	10104	Right Justify String
	\$\$SENTENCE	10104	Convert String to Sentence Case
	\$\$STRIP	10104	Strip a String
	\$\$TITLE	10104	Convert String to Title Case
	\$\$TRIM	10104	Trim String
	\$\$UP	10104	Convert String to Uppercase
XLFUTL	\$\$BASE	2622	Convert Between Two Bases
	\$\$CCD	2622	Append Check Digit
	\$\$CNV	2622	Convert Base 10 to Another Base
	\$\$DEC	2622	Convert Another Base to Base 10
	\$\$VCD	2622	Verify Integrity
^XPAR	ADD	2263	Add Parameter Value
	CHG	2263	Change Parameter Value
	DEL	2263	Delete Parameter Value
	EN	2263	Add, Change, Delete Parameters
	ENVAL	2263	Return All Parameter Instances

Routine	Entry Point	ICR #	Description
	\$\$GET	2263	Return an Instance of a Parameter
	GETLST	2263	Return All Instances of a Parameter
	GETWP	2263	Return Word-Processing Text
	NDEL	2263	Delete All Instances of a Parameter
	PUT	2263	Add/Update Parameter Instance
	REP	2263	Replace Instance Value
XPAREDIT	BLDLST	2336	Return All Entities of a Parameter
	EDIT	2336	Edit Instance and Value of a Parameter
	EDITPAR	2336	Edit Single Parameter
	EN	2336	Parameter Edit Prompt
	GETENT	2336	Prompt for Entity Based on Parameter
	GETPAR	2336	Select Parameter Definition File
	TED	2336	Edit Template Parameters (No Dash Dividers)
	TEDH	2336	Edit Template Parameters (with Dash Dividers)
XPDID	EXIT	2172	Progress Bar Emulator: Restore Screen, Clean Up Variables, and Display Text
	INIT	2172	Progress Bar Emulator: Initialize Device and Draw Box Borders
	TITLE	2172	Progress Bar Emulator: Display Title Text
	UPDATE	2172	Update KIDS Install Progress Bar
XPDIJ	EN	2243	Task Off KIDS Install (Controlled Subscription)
XPDIP	\$\$PKGPAT	2067	Update Patch History
XPDKEY	DEL	1367	Delete Security Key
	\$\$LKUP	1367	Look Up Security Key Value
	\$\$RENAME	1367	Rename Security Key
XPDMENU	\$\$ADD	1157	Add Option to Menu
	DELETE	1157	Delete Menu Item
	LKOPT	1157	Look Up Option IEN
	LOCK	1157	Set LOCK Field in OPTION File

Routine	Entry Point	ICR #	Description
	OUT	1157	Edit Option's Out of Order Message
	RENAME	1157	Rename Option
	RLOCK	1157	Set REVERSE/NEGATIVE Field in OPTION File
	\$\$TYPE	1157	Get Option Type
XPDPROT	\$\$ADD	5567	Add Child Protocol to Parent Protocol
	\$\$DELETE	5567	Delete Child Protocol from Parent Protocol
	FIND	5567	Find All Parents for a Protocol
	\$\$LKPROT	5567	Look Up Protocol IEN
	OUT	5567	Edit Protocol's Out of Order Message
	RENAME	5567	Rename Protocol
	\$\$TYPE	5567	Get Protocol Type
XPDUTL	BMES	10141	Output Message with Blank Line
	\$\$COMCP	10141	Complete Checkpoint
	\$\$CURCP	10141	Get Current Checkpoint Name/IEN
	\$\$INSTALDT	10141	Return All Install Dates/Times
	\$\$LAST	10141	Last Software Patch
	MES	10141	Output a Message
	\$\$NEWCP	10141	Create a Checkpoint
	\$\$OPTDE	10141	Disable/Enable an Option
	\$\$PARCP	10141	Get Checkpoint Parameter
	\$\$PATCH	10141	Verify Patch Installation
	\$\$PKG	10141	Parse Software Name from Build Name
	\$\$PRODE	10141	Disable/Enable a Protocol
	\$\$RTNUP	10141	Update Routine Action
	\$\$UPCP	10141	Update Checkpoint
	\$\$VER	10141	Parse Version from Build Name
	\$\$VERCP	10141	Verify Checkpoint
	\$\$VERSION	10141	PACKAGE File Current Version
XQ92	NEXT	10077	Restricted Times Check

Routine	Entry Point	ICR #	Description
XQALBUTL	AHISTORY	2788	Get Alert Tracking File Information
	ALERTDAT	2788	Get Alert Tracking File Information
	DELSTAT	3197	Get User Information and Status for Recent Alert
	NOTIPURG	3010	Purge Alerts Based on Code
	\$\$PENDING	2788	Pending Alerts for a User
	\$\$PKGPEND	2788	Pending Alerts for a User in Specified Software
	PTPURG	3010	Purge Alerts Based on Patient
	RECIPURG	3010	Purge User Alerts
	USERDATA	2788	Get User Information for an Alert
	USERLIST	2788	Get Recipient Information for an Alert
XQALERT	ACTION	10081	Process an Alert
	DELETE	10081	Clear Obsolete Alerts (Single)
	DELETEA	10081	Clear Obsolete Alerts (All)
	GETACT	10081	Return Alert Variables
	PATIENT	10081	Get Alerts for a Patient
	SETUP	10081	Send Alerts
	\$\$SETUP1	10081	Send Alerts
	USER	10081	Get Alerts for a User
XQALFWD	FORWARD	3009	Forward Alerts
XQALSURO	\$\$CURRSURO	2790	Get Current Surrogate for Alerts
	\$\$GETSURO	3213	Get Current Surrogate Information
	REMOVESURO	2790	Remove Surrogates for Alerts
	SETSURO1	3213	Establish a Surrogate for Alerts
	SUROFOR	3213	Return a Surrogate's List of Users
	SUROLIST	3213	List Surrogates for a User
XQCHK	\$\$ACCESS	10078	User Option Access Test
	OP	10078	Current Option Check
XQDATE	^XQDATE	10079	Convert \$H to VA FileMan Format (Obsolete) (Use \$\$FMTE^XLFD or \$\$HTFM^XLFD)

Routine	Entry Point	ICR #	Description
XQH	EN	10074	Display Help Frames (Clear Screen)
	EN1	10074	Display Help Frames
XQH4	ACTION	10080	Print Help Frame Tree
XQOR	EN	10101	Navigating Protocols
	EN1	10101	Navigating Protocols (Entry/Exit Actions Not Executed)
	MSG	10101	Enable HL7 Messaging
XQORM	EN	10140	Menu Item Display and Selection
	XREF	10140	Force Menu Recompile
XQORM1	DISP	10102	Display Menu Selections From Help Code
XTHC10	\$\$GETURL	5553	Return URL Data Using HTTP
XTHCURL	\$\$ENCODE	5554	Encodes a Query String
	\$\$MAKEURL	5554	Creates a URL from Components
	\$\$PARSEURL	5554	Parses a URL
XTHCUTL	\$\$DECODE	5555	Decodes a String
XTID	GETIREF	4631	Get IREF (Term/Concept)
	\$\$GETMASTR	4631	Get Master VUID Flag (Term/Concept)
	\$\$GETSTAT	4631	Get Status Information (Term/Concept)
	\$\$GETVUID	4631	Get VUID (Term/Concept)
	\$\$SCREEN	4631	Get Screening Condition (Term/Concept)
	\$\$SETMASTR	4631	Set Master VUID Flag (Term/Concept)
	\$\$SETSTAT	4631	Set Status Information (Term/Concept)
	\$\$SETVUID	4631	Set VUID (Term/Concept)
XTIDTRM	\$\$GETRPLC	5078	Get Immediate Replacement Term (Term/Concept)
	\$\$RPLCLST	5078	Get List of Replacement Terms, w/Optional Status Date and History (Term/Concept)
	\$\$RPLCMNT	5078	Get Final Replacement Term (Term/Concept)
	\$\$RPLCTRL	5078	Get Replacement Trail for Term, with Replaced “BY” and Replacement “FOR” Terms (Term/Concept)

Routine	Entry Point	ICR #	Description
	\$\$RPLCVALS	5078	Get Field Values of Final Replacement Term (Term/Concept)
	\$\$SETRPLC	5078	Set Replacement Term (Term/Concept)
XTKERM4	RFILE	2075	Add Entries to Kermit Holding File
XTKERMIT	RECEIVE	10095	Load a File into the Host
	SEND	10095	Send Data from Host
XTLKKWL	XTLKKWL	10122	Perform Supported VA FileMan Calls on Files Configured for MTLU
XTLKMGR	DK	10153	Delete Keywords from the Local Keyword File
	DLL	10153	Delete an Entry from the Local Lookup File
	DSH	10153	Delete Shortcuts from the Local Shortcut File
	DSY	10153	Delete Synonyms from the Local Synonym File
	K	10153	Add Keywords to the Local Keyword File
	L	10153	Define a File in the Local Lookup File
	LKUP	10153	General Lookup Facility for MTLU
	SH	10153	Add Shortcuts to the Local Shortcut File
	SY	10153	Add Terms and Synonyms to the Local Synonym File
XUA4A71	\$\$EN	3178	Convert String to Soundex
XUA4A72	\$\$CODE2TXT	1625	Get HCFA Text
	\$\$GET	1625	Get Specialty and Subspecialty for a User
	\$\$IEN2CODE	1625	Get VA Code
XUAF4	\$\$ACTIVE	2171	Institution Active Facility (True/False)
	CDSYS	2171	Coding System Name
	CHILDREN	2171	List of Child Institutions for a Parent
	\$\$CIRN	2171	Institution CIRN-enabled Field Value
	F4	2171	Institution Data for a Station Number
	\$\$ID	2171	Institution Identifier

Routine	Entry Point	ICR #	Description
	\$\$IDX	2171	Institution IEN (Using Coding System & ID)
	\$\$IEN	2171	IEN for Station Number
	\$\$LEGACY	2171	Institution Realigned/Legacy (True/False)
	\$\$LKUP	2171	Institution Lookup
	LOOKUP	2171	Look Up Institution Identifier
	\$\$MADD	2171	Institution Mailing Address
	\$\$NAME	2171	Institution Official Name
	\$\$NNT	2171	Institution Station Name, Number, and Type
	\$\$NS	2171	Institution Name and Station Number
	\$\$O99	2171	IEN of Merged Station Number
	\$\$PADD	2171	Institution Physical Address
	PARENT	2171	Parent Institution Lookup
	\$\$PRNT	2171	Institution Parent Facility
	\$\$RF	NONE	Realigned From Institution Information
	\$\$RT	NONE	Realigned To Institution Information
	SIBLING	2171	Sibling Institution Lookup
	\$\$STA	2171	Station Number for IEN
	\$\$TF	2171	Treating Facility (True/False)
	\$\$WHAT	2171	Institution Single Field Information
XUDHGUI	DEVICE	3771	GUI Device Lookup
XUDHSET	\$\$RES	2232	Set Up Resource Device
XUHUI	OPKG	3589	Monitor New Style Cross-referenced Fields
XULMU	CLEANUP	5832	Lock Manager: Execute the Housecleaning Stack
	SETCLEAN	5832	Lock Manager: Register a Cleanup Routine
	UNCLEAN	5832	Lock Manager: Remove Entries from the Housecleaning Stack
	ADDPAT	5832	Lock Manager: Add Patient Identifiers for a Computable File Reference

Routine	Entry Point	ICR #	Description
	PAT	5832	Lock Manager: Get a Standard Set of Patient Identifiers
XUMF	\$\$IEN	3795	Institution IEN (Using IFN, Coding System, & ID)
XUMFI	MAIN	2171	HL7 Master File Message Builder (Controlled Subscription)
XUMFP	MAIN	2171	Master File Parameters (Controlled Subscription)
XUP	\$\$DTIME	4409	Reset DTIME for USER
XUPARAM	\$\$GET	2542	Get Parameters
	\$\$KSP	2541	Return Kernel Site Parameter
	\$\$LKUP	2542	Look Up Parameters
	SET	2542	Set Parameters
XUPROD	PROD	4440	Production Vs. Test Account
XUPS	\$\$IEN	4574	Get IEN Using VPID in File #200
	\$\$VPID	4574	Get VPID Using IEN in File #200
XUPSQRY	EN1	4575	Query New Person File
XUS	H	10044	Programmer Halt
XUS1A	SET	3057	Output Message During Signon
XUS2	AVHLPTXT	4057	Get Help Text (Controlled Subscription)
XUSAP	\$\$CREATE	4677	Create Application Proxy User
XUSCLEAN	KILL	10052	Clear all but Kernel Variables
	TOUCH	10052	Notify Kernel of Tasks that Run 7 Days or Longer
XUSER	\$\$ACTIVE	2343	Status Indicator
	\$\$DEA	2343	Get DEA Number. Modified with Kernel Patch XU*8.0*580 for ePCS.
	\$\$DETOX	2343	Get Detox/Maintenance ID Number Added with Kernel Patch XU*8.0*580 for ePCS.
	DIV4	2533	Get User Divisions (Controlled Subscription)
	\$\$LOOKUP	2343	NEW PERSON File Lookup

Routine	Entry Point	ICR #	Description
	\$\$NAME	2343	Get Name of User
	\$\$PROVIDER	2343	Providers in NEW PERSON File
	\$\$SDEA	2343	Check for Prescribing Privileges Added with Kernel Patch XU*8.0*580 for ePCS.
	\$\$VDEA	2343	Check if User Can Sign Controlled Substance Orders Added with Kernel Patch XU*8.0*580 for ePCS.
XUSERNEW	\$\$ADD	10053	Add New User
XUSERSIG	^XUSERSIG	936	Set Up Electronic Signature Code (Controlled Subscription)
	SIG	10050	Verify Electronic Signature Code
XUSERSIG1	\$\$CHKSUM	1557	Build Checksum for Global Root
	\$\$CMP	1557	Compare Checksum to \$Name_Value
	\$\$DE	1557	Decode String
	\$\$EN	1557	Encode ESBLOCK
	\$\$ESBLOCK	1557	Electronic Signature (E-Sig) Fields Required for Hash
XUSHSH	\$\$AESDECR	6189	Returns Plaintext String Value for AES Encrypted Ciphertext Entry
	\$\$AESENCR	6189	Returns AES Encrypted Ciphertext for String Entry
	\$\$B64DECD	6189	Returns Decoded Value for a Base64 String Entry
	\$\$B64ENCD	6189	Returns Base64 Encoded Value for a String Entry
	\$\$RSADECR	6189	Returns Plaintext String Value for RSA Encrypted Ciphertext Entry
	\$\$RSAENCR	6189	Returns RSA Encrypted Ciphertext for String Entry
	\$\$SHAHASH	6189	Returns SHA Hash for a String Entry
XUSHSHP	DE	10045	Decrypt Data String
	EN	10045	Encrypt Data String
	HASH	10045	Hash Electronic Signature Code

Routine	Entry Point	ICR #	Description
XUSNPI	\$\$CHKDGT	4532	Validate NPI Format
	\$\$NPI	4532	Get NPI from Files #200 or #4
	\$\$QI	4532	Get Provider Entities
XUSRB	\$\$CHECKAV	2882	Check Access/Verify Codes (Controlled Subscription)
	CVC	4054	VistALink-Change User's Verify Code (Controlled Subscription)
	\$\$INHIBIT	3277	Check if Logons Inhibited
	INTRO	4054	VistALink-Get Introductory Text (Controlled Subscription)
	\$\$KCHK	2120	Check If User Holds Security Key (Controlled Subscription)
	LOGOUT	4054	VistALink-Log Out User From M (Controlled Subscription)
	OWNSKEY	3277	Verify Security Keys Assigned to a User
	SETUP	4054	VistALink-Set Up User's Partition in M (Controlled Subscription)
	VALIDAV	4054	VistALink-Validate User Credentials (Controlled Subscription)
XUSRB1	\$\$DECRYPT	2241	Decrypt String
	\$\$ENCRYPT	2240	Encrypt String
XUSRB2	DIVGET	4055	Get Divisions for Current User (Controlled Subscription)
	DIVSET	4055	Set Division for Current User (Controlled Subscription)
	USERINFO	4055	Get Demographics for Current User (Controlled Subscription)
XUSRB4	\$\$HANDLE	4770	Return Unique Session ID String
XUSTAX	\$\$TAXIND	4911	Get Taxonomy Code from File #200 (Controlled Subscription)
	\$\$TAXORG	4911	Get Taxonomy Code from File #4 (Controlled Subscription)
XUTMDEVQ	\$\$DEV	1519	Force Queueing—Ask for Device
	EN	1519	Run a Task (Directly or Queued)
	\$\$NODEV	1519	Run a Task (Force Queueing—No Device Selection)

Routine	Entry Point	ICR #	Description
	\$\$QQ	1519	Double Queue—Direct Queuing in a Single Call
	\$\$REQQ	1519	Schedule Second Part of a Task
XUTMOPT	DISP	1472	Display Option Schedule
	EDIT	1472	Edit an Option's Scheduling
	OPTSTAT	1472	Obtain Option Schedule
	RESCH	1472	Set Up Option Schedule
XUTMTP	EN	3521	Display HL7 Task Information (Controlled Subscription)
XUVERIFY	^XUVERIFY	10051	Verify Access and Verify Codes
	\$\$CHECKAV	10051	Check Access/Verify Codes
	WITNESS	1513	Return IEN of Users with A/V Codes & Security Keys (Controlled Subscription)
XUWORKDY	^XUWORKDY	10046	Workday Calculation (Obsolete)
	\$\$EN	10046	Number of Workdays Calculation
	\$\$WORKDAY	10046	Workday Validation
	\$\$WORKPLUS	10046	Workday Offset Calculation
%ZIS	^%ZIS	10086	Standard Device Call
	HLP1	10086	Display Brief Device Help
	HLP2	10086	Display Device Help Frames
	HOME	10086	Reset Home Device IO Variables
	\$\$REWIND	10086	Rewind Devices
%ZISC	^%ZISC	10089	Close Device
%ZISH	CLOSE	2320	Close Host File
	\$\$DEFDIR	2320	Get Default Host File Directory
	\$\$DEL	2320	Delete Host File
	\$\$FTG	2320	Load Host File into Global
	\$\$GATF	2320	Copy Global to Host File (Append Existing global Nodes)
	\$\$GTF	2320	Copy Global to Host File
	\$\$LIST	2320	List Directory
	\$\$MV	2320	Rename Host File

Routine	Entry Point	ICR #	Description
	OPEN	2320	Open Host File
	\$\$PWD	2320	Get Current Directory
	\$\$STATUS	2320	Return End-of-File (EOF) Status
%ZISP	PKILL	3172	Kill Special Printer Variables
	PSET	3172	Set Up Special Printer Variables
ZISPL	DSD	1092	Delete Spool Data File Entry (Controlled Subscription)
	DSDOC	1092	Delete Spool Document File Entry (Controlled Subscription)
%ZISS	ENDR	10088	Set Up Specific Screen Handling Variables
	ENS	10088	Set Up Screen Handling Variables
	GKILL	10088	KILL Graphic Variables
	GSET	10088	Set Up Graphics Variables
	KILL	10088	KILL Screen Handling Variables
%ZISTCP	CALL	2118	Make TCP/IP Connection (Remote System)
	CLOSE	2118	Close TCP/IP Connection (Remote System)
%ZISUTL	CLOSE	2119	Close Device with Handle
	OPEN	2119	Open Device with Handle
	RMDEV	2119	Delete Data Given a Handle
	SAVDEV	2119	Save Data Given a Handle
	USE	2119	Use Device Given a Handle
%ZOSF	^%ZOSF	NONE	Operating System-dependent Logic Global
%ZOSV	\$\$ACTJ	10097	Number of Active Jobs
	\$\$AVJ	10097	Number of Available Jobs
	DOLRO	3883	Display Local Variables (Controlled Subscription)
	\$\$EC	10097	Get Error Code
	GETENV	10097	Current System Information
	GETPEER	4056	VistALink-Get IP Address for Current Session (Controlled Subscription)

Routine	Entry Point	ICR #	Description
	\$\$LGR	10097	Last Global Reference
	LOGRSRC	10097	Record Resource Usage (RUM)
	\$\$OS	10097	Get Operating System Information
	SETENV	10097	Set VMS Process Name (Caché/OpenVMS Systems)
	SETNM	10097	Set VMS Process Name: Parameter Passing (Caché/OpenVMS Systems)
	T0 (Obsolete)	10097	(Obsolete) Start RT Measure
	T1 (Obsolete)	10097	(Obsolete) Stop RT Measure
	\$\$VERSION	10097	Get OS Version Number or Name
%ZTER	^%ZTER	1621	Kernel Standard Error Recording Routine
	APPERROR	1621	Set Application Error Name in Kernel Error Trap Log
	\$\$NEWERR	1621	Verify Support of Standard Error Trapping (Obsolete)
	UNWIND	1621	Quit Back to Calling Routine
%ZTLOAD	^%ZTLOAD	10063	Queue a Task
	\$\$ASKSTOP	10063	Stop TaskMan Task
	DESC	10063	Find Tasks with a Description
	DQ	10063	Unschedule a Task
	ISQED	10063	Return Task Status
	\$\$JOB	10063	Return a Job Number for a Task
	KILL	10063	Delete a Task
	OPTION	10063	Find Tasks for an Option
	PCLEAR	10063	Clear Persistent Flag for a Task
	\$\$PSET	10063	Set Task as Persistent
	REQ	10063	Requeue a Task
	RTN	10063	Find Tasks that Call a Routine
	\$\$\$	10063	Check for Task Stop Request
	STAT	10063	Task Status
	\$\$TM	10063	Check if TaskMan is Running
	ZTSAVE	10063	Build ZTSAVE Array

8 Direct Mode Utilities

This chapter lists all Kernel and Kernel Toolkit direct mode utilities. Direct mode utilities can be used from programmer mode, but developers *cannot* call them from within applications.



REF: Every direct mode utility is described in the *Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide* and *Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide*. Refer to the indicated section in that manual for details on the use of the utility.

The direct mode utilities in [Table 28](#) are listed in routine order and by tag within each routine:

Table 28: Direct Mode Utilities

Direct Mode Utility	Description	Reference Documentation
D ^%G	List Global option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Miscellaneous: Developer Tools
(obsolete) D ^%INDEX Use: D ^XINDEX	To run %INDEX	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Routine Tools and Toolkit: Developer Tools
D ^%RR	Input Routines option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools
D ^%RS	Output Routines option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools
D ^XQ1	Test an Option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Menu Manager: Programmer Tools
D ^XTER	Display Error Trap	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Error Processing: Developer Tools
D ^XTERPUR	Purge Error Log	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Error Processing: Developer Tools
D ^XTFCR	Flow Chart from Entry Point option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Routine Tools
D ^XTRCMP	Compare Two Routines option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools
D TAPE^XTRCMP	Compare Routines on Tape to Disk option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools

Direct Mode Utility	Description	Reference Documentation
D ^XTRGRPE	Group Routine Edit option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools
D CHCKSUM^XTSUMBLD	Integrity checking utility	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools
D ^XTVCHG	Variable Changer option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools
D ^XTVNUM	Version Number Update option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools
D ENABLE^XUFILE3	Enable File Access Security System	<i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i> ; File Access Security
D ^XUINCON	Run File Access Security Conversion	<i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i> ; File Access Security
D ^XUP	Programmer Sign-On	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Signon/Security: Programmer Tools
D ^XUS	User Sign-On, No Error Trapping	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Signon/Security: Programmer Tools
D H^XUS	Programmer Halt	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Signon/Security: Programmer Tools
D ^XUSCLEAN	Programmer Halt	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Signon/Security: Programmer Tools
X ^%Z	Routine Edit option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Miscellaneous: Developer Tools
D ^%ZTBKC	Global Block Count	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Operating System Interface: Developer Tools
D ^ZTEDIT	Install ^%Z editor	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Miscellaneous: Developer Tools
D ^%ZTER	Record an error	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools

Direct Mode Utility	Description	Reference Documentation
D ^ZTMB	Start TaskMan	<i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i> ; TaskMan: System Management—Configuration
D RESTART^ZTMB	Restart TaskMan	<i>Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide</i> ; TaskMan: System Management—Configuration
D ^ZTMCHK	Check TaskMan's Environment	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools
D ^ZTMGRSET	Update ^%ZOSF Nodes	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Operating System Interface: Developer Tools
D RUN^ZTMKU	Remove TaskMan from a WAIT state	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; TaskMan Developer Tools
D STOP^ZTMKU	Stop TaskMan	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; TaskMan Developer Tools
D WAIT^ZTMKU	Place TaskMan in a WAIT state	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; TaskMan Developer Tools
D ^ZTMON	Monitor TaskMan	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; TaskMan Developer Tools
D ^%ZTPP	List Routines option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools
D ^%ZTRDEL	Delete Routines option	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Toolkit: Developer Tools
D ^ZU	User Sign-On	<i>Kernel 8.0 & Kernel Toolkit 7.3 Developer's Guide</i> ; Signon/Security: Developer Tools

9 Remote Procedure Calls (RPCs)


[Table 29](#) lists the Remote Procedure Calls (RPCs) in the Kernel and Kernel Toolkit namespaces as stored in the REMOTE PROCEDURE (#8994) file (listed alphabetically by RPC name):



NOTE: The Kernel and Kernel Toolkit namespaces include: “XDR*,” “XI*,” “XPAR*,” “XPD*,” “XQ*,” “XT,” and “XU*.”

Table 29: Remote Procedure Calls (RPCs)—Kernel and Kernel Toolkit


RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
XDR ADD POTENTIAL PATIENT DUP Availability: AGREEMENT	5271	ENTRY^XQALGUI	<ul style="list-style-type: none"> • FILE NUMBER: File number for the file to which the potential duplicate records belong. For example, if the two potential duplicate entries are on the PATIENT file, this value is set to 2. • TO_IEN: Internal Entry Number (IEN) of one of the potential duplicate records. For example, this could be a DFN from the PATIENT (#2) file. • FROM_IEN: Internal Entry Number (IEN) of one of the potential duplicate records. For example, this could be a DFN from the PATIENT (#2) file. 	Returns: <ul style="list-style-type: none"> • Success: IEN from the DUPLICATE RECORD (#15) file. If no errors occur, and if either an existing record is found, or a new record is added. • Failure: -1^Error Message—If any errors occur. 	This RPC adds a record to the VistA DUPLICATE RECORD (#15) file, or find an existing record for the pair of potential duplicates passed to the RPC. This was written to allow MPI to add potential duplicate patients to the file when potential duplicates are detected by the Person Service Identity Management (PSIM) probabilistic search.
XDR UPD SUPPR EMAIL	None	ADD^XDRDADDS	<ul style="list-style-type: none"> • FILE NUMBER: File 	Returns:	This API remotely sets the

RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
Availability: AGREEMENT			<p>number for the file that is the .01 field of a record in the DUPLICATE RESOLUTION (#15.1) file. This is the record that is to be updated by this RPC.</p> <ul style="list-style-type: none"> • VALUE: <i>Must</i> be set to 1 or 0. This value will be put into the SUPPRESS NEW DUP. • EMAIL field. 	<ul style="list-style-type: none"> • Success: 0—If no errors occurred. • Failure: -1^Error Message—If errors occurred. 	<p>SUPPRESS NEW DUP EMAIL (#99) field in the DUPLICATE RESOLUTION (#15.1) file.</p> <p>SUPPRESS NEW DUP EMAIL is set to 1 (Yes) to suppress the email that is normally sent when a new record is added to the DUPLICATE RECORD file by PSIM (i.e., by a call from routine XDRDADDS).</p> <p>If SUPPRESS NEW DUP EMAIL is set to 0 (No) or NULL, the email is sent.</p>
XQAL GUI ALERTS Availability: PUBLIC	None	ENTRY^XQALGUI	DATA: Subscripted, and the subscript contains the actual variable name (and can be a global reference), while the value for the variable is the value associated with that DATA element.	Array: Contains the return values for the type of call.	This RPC handles the XUAlert component.
XU EPC EDIT Agreement: RESTRICTED	None	ENTRY^XUEPCSE D	DATA	Single Value	<p>This RPC stores information on editing changes in the NEW PERSON (#200) file related to the electronic prescribing of controlled substances.</p> <p> NOTE: This RPC was released with Kernel Patch XU*8.0*580.</p>
XULM GET LOCK TABLE	5832	LOCKS^XULMRPC	<ul style="list-style-type: none"> • LOCKGBL: This is 	Returns:	The Lock Manager uses this

RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
			<p>the global reference of the location where the lock table should be returned. Maximum data length: 245.</p> <ul style="list-style-type: none"> • RESULT: Global location to place the result. Maximum data length: 200. 	<ul style="list-style-type: none"> • 0 on failure. • 1 on success. 	RPC to obtain the lock table on a specific node. The lock table is returned in a global.
XULM KILL PROCESS	5832	KILLPROC^XULM RPC	<ul style="list-style-type: none"> • PID: This is the PID of the process to be KILLED. Maximum data length: 250. • RETURN: This is the global location to return the result. The result should be returned in ^XTMP, since it is translated between nodes. Maximum data length: 200. 		The Lock Manager uses this RPC to terminate a process.
XUPS PERSONQUERY Availability: PUBLIC	None	EN1^XUPSQRY	<ul style="list-style-type: none"> • XUPSLNAM: Required if lookup by name. • XUPSFNAM • XUPSSSN • XUPSPROV • XUPSSTN • XUPSMNM • XUPSDATE 	Array: Output data stored in a global array.	This RPC performs a person lookup.

RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
			<ul style="list-style-type: none"> XUPSPVID: Required if lookup by VPID. 		
XUS ALLKEYS Agreement: PUBLIC	6287	ALLKEYS^XUSRB	<ul style="list-style-type: none"> IEN: This is the IEN or DUZ of the user in question. If <i>not</i> passed in, the RPC will use the current DUZ. FLAG: Not in use at this time. 	Returns: <ul style="list-style-type: none"> Success: Returns a list of the names of the Security KEYS the user holds. Failure: Returns -1 if failed for some reason. 	This RPC returns all the KEYS that a user holds. If the FLAG is set to some value, the list of KEYS will be screened to only be those for J2EE use. For KAAJEE.
XUS AV CODE Agreement: RESTRICTED	1630	VALIDAV^XUSRB	AVCODE: accessCode_", "_verifyCode in unencrypted form.	Array: It returns an array of values.	This RPC checks if an ACCESS/VERIFY code pair is valid.
XUS AV HELP Agreement: RESTRICTED	None	AVHELP^XUSRB	None	Array: Returns instructions on entering new access/verify codes.	This RPC returns instructions on entering new Access/Verify codes.
XUS CCOW VAULT PARAM Agreement: RESTRICTED	None	CCOWPC^XUSRB4	None	Returns a value for use with the CCOW vault.	This RPC returns a value for use with the CCOW vault.
XUS CVC Agreement: RESTRICTED	6296	CVC^XUSRB	None		This RPC allows the user to change their Verify code.
XUS DIVISION GET Agreement: RESTRICTED	5198	DIVGET^XUSRB2	IEN: If passed, this will be the user to get the division info on.	Returns a list of divisions for a user.	This RPC returns a list of divisions for a user.
XUS DIVISION SET Agreement: RESTRICTED	5199	DIVSET^XUSRB2	DIV	Returns: <ul style="list-style-type: none"> Success: 1 if the value was accepted. Failure: 0 if the input was <i>not</i> OK. 	This RPC sets the user's selected Division in DUZ(2) during signon.
XUS GET CCOW TOKEN	None	CCOW^XUSRB4	None	Array	This RPC gets a token to save


RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
Agreement: RESTRICTED					in the CCOW context to aid in signon.
XUS GET TOKEN Agreement: RESTRICTED	6813	ASH^XUSRB4	None	Returns: A handle to a token that signs on a new process.	This RPC returns a handle to a token that signs on a new process.
XUS GET USER INFO Agreement: RESTRICTED	2857	USERINFO^XUSRB2	None	Array: Returns information about a user after logon.	This RPC returns information about a user after logon.
XUS GET VISITOR Agreement: SUBSCRIPTION	5532	GETVISIT^XUSBS E1	TOKEN	Single Value	This controlled-subscription RPC is used by the Broker Security Enhancement (BSE) to check a user's credentials based on a BSE TOKEN that was passed to identify and authenticate a visiting user. The remote VistA system calls this RPC on the authenticating VistA system to validate if the visiting user is permitted to visit, and if so, obtain the authenticated user's demographics.
XUS INTRO MSG Agreement: RESTRICTED	1631	INTRO^XUSRB	None	Returns: Introductory text.	This RPC returns the INTRO message from the KERNEL SYSTEM PARAMETERS (#8989.3) file.
XUS KEY CHECK Agreement: PUBLIC	6286	OWNSKEY^XUSRB	KEY: <ul style="list-style-type: none"> If key is a single value, it holds the one key to check. If key is an array, then the result is an array that matches the key 	Array. Returns: <ul style="list-style-type: none"> 1—If the user has the key. 0—If the user does <i>not</i> have the key. 	This RPC checks if the user (DUZ) holds a security key or an array of keys. If a single security KEY is sent, the result is returned in R(0) . If an array is sent down, then the return array has the same order as


RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
			list with values that match the status of the key check for each key.		the calling array.
XUS MVI ENRICH NEW PERSON	1059	UPDATE^XUMVIE NU	<ul style="list-style-type: none"> PARAM: Input array: <code>PARAM ("WHO") =Station Number of requesting station</code> <code>PARAM ("NPI") =National Provider Identifier</code> Required elements only when FLAG input parameter is A: <code>PARAM ("NAME") =surname first name middle name suffix full .01 name</code> Optional elements (only pass those elements you want to update): <code>PARAM ("ADDRESS DATA") =street address 1 street address 2 street address 3 city state zip code office phone fax number</code> 	Returns: <ul style="list-style-type: none"> Success: DUZ of New Person File entry edited or added. Returned if there were no issues adding or editing the entry. DUZ^-1^ErrorMessage Returned if entry was edited, but some data was not valid and could not be filed. Failure: -1^ErrorMessage Returned, for example, if required data was <i>not</i> passed; entry could not be added when FLAG="A", or entry could <i>not</i> be found based on the NPI when FLAG="U". 	This controlled subscription RPC is used exclusively by the Master Veteran Index (MVI) software to update enriched data in the NEW PERSON (#200) file.  NOTE: This RPC was released with Kernel Patch XU*8.0*711.

RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
			<p>PARAM("SubjectOrga n")=subject organization Default: "Department Of Veterans Affairs" PARAM("SubjectOrga nID")=subject organization id Default: "urn:oid:2.16.840.1.11 3883.4.349" PARAM("ADUPN")=adu pn PARAM("AuthWriteMe dOrders")=1 or 0 for YES/NO Default if WHO is 200PIEV and a DEA# is sent: 1 (for YES) PARAM("DEA",<seq#> , "DEA")=Drug Enforcement Agency (DEA) # PARAM("DEA",<seq#> , "Detox")= detox number PARAM("DEA",<seq#> , "DEAExpire")=expi ration date (can be future) PARAM("DEA",<seq#> , "SchedIINarc")=1 or 0 for YES/NO PARAM("DEA",<seq#> , "SchedIINonNarc") =1 or 0 for YES/NO PARAM("DEA",<seq#> , "SchedIINarc")=1</p>		

RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
			or 0 for YES/NO PARAM("DEA",<seq#> ,"SchedIIINonNarc")=1 or 0 for YES/NO PARAM("DEA",<seq#> ,"SchedIV")=1 or 0 for YES/NO PARAM("DEA",<seq#> ,"SchedV")=1 or 0 for YES/NO PARAM("DEGREE")=de grees (codes delimited by a space) PARAM("EMAIL")=ema il address PARAM("GENDER")=M or F PARAM("Inactivate")=inactive date (can be future) PARAM("NonVAPrescr iber")=1 or 0 for YES/NO Default if WHO is 200PIEV: 1 (for YES) PARAM("NTUSERNAME")=network user name PARAM("PersonClass ",<seq#>,"PersonCl ass")=X12 code value PARAM("PersonClass ",<seq#>,"PersonCl assActive")=date Default if not currently		

RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
			<p>active: TODAY PARAM("PersonClass", <seq#>, "PersonClassExpire")=date PARAM("ProviderClass")=a value from the PROVIDER CLASS (#7) file PARAM("ProviderType")=provider type code provider type value PARAM("Remarks")=remarks Default if WHO is 200PIEV: "NON-VA PROVIDER" PARAM("SECID")=sec id PARAM("TaxID")=tax id PARAM("Termination")=termination date <i>(cannot be future)</i> PARAM("Title")=value from TITLE file (#3.1) Default if WHO is 200PIEV: "NON-VA PROVIDER" PARAM("UniqueUserID")=unique user id</p> <ul style="list-style-type: none"> • FLAG: This flag controls whether the RPC is adding a new entry to the NEW 		

RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
			PERSON (#200) file or updating an existing entry. Possible values are: <ul style="list-style-type: none"> ○ U—Update an existing entry ○ A—Add a new entry 		
XUS PKI SET UPN Agreement: RESTRICTED	5823	SETUPN^XUSER2	UPN: This is the SUBJECT ALTERNATIVE NAME from the PIV card.	Single Value	This RPC sets the SUBJECT ALTERNATIVE NAME (#501.2) field in the NEW PERSON (#200) file.
XUS PKI GET UPN Agreement: PUBLIC	5816	GETUPN^XUSER2	None	Single Value	This RPC gets the SUBJECT ALTERNATIVE NAME (#501.2) field from the NEW PERSON (#200) file. It is used to check that the correct PIV card has been put into the reader.
XUS SEND KEYS Agreement: RESTRICTED	1633	SENDKEYS^XUSR B	None	Array: strings that are used in the hashing algorithm. The strings that are returned are picked up from Z^XUSRB .	This RPC returns an array of strings that are used in the hashing algorithm. The strings that are returned are picked up from Z^XUSRB .
XUS SET VISITOR Agreement: PUBLIC	5501	SETVISIT^XUSBSE 1	None	Returns: A BSE token string	This RPC is run on the Authenticating VistA M Server. It returns a Kernel Authentication Token that is used to identify the current user.  NOTE: This RPC was added with the Broker

RPC	ICR #	Tag^Routine	Input Parameters	Output/ Return Parameters	Description
					Security Enhancement (BSE) project, which was released with Kernel Patch XU*8.0*404.
XUS SIGNON SETUP Agreement: PUBLIC	1632	SETUP^XUSRB		Array	This RPC establishes the environment necessary for DHCP signon
XWB GET VARIABLE VALUE Agreement: PUBLIC	1629	XWBLIB		Single Value	<p>This RPC accepts the name of a variable that will be evaluated, and its value returned to the server. For example, this RPC can be called with a parameter like DUZ, which will be returned as 123456.</p> <p> NOTE: This is an RPC Broker namespaced RPC but included here as part of Kernel Patch XU*8.0*580.</p>

10 External Relations

10.1 External Relations with Other VistA Software

Kernel establishes external relations with all other VistA software and with the various implementations of ANSI M. Kernel provides a transparent interface between VistA and the host operating system.

All other VistA software depends upon the presence of Kernel, for two main reasons:

- Kernel provides a wealth of application mode entry points that software applications use to solve many common programming problems.
- Kernel provides other VistA applications with portability. In order to achieve independence from any particular vendor's implementation of the M standard, VistA adopted programming standards and conventions that advise software applications to avoid the use of the non-portable features of ANSI M. Though all VistA software depends upon an ANSI M environment, they also depend upon Kernel to replace non-portable features with standard Kernel entry points and services.

10.2 External Relations with M Operating Systems

Kernel itself depends upon the presence of one of the ANSI M environments it supports. Currently, Caché is the centrally procured M operating systems in use at the VA medical centers and the primary ANSI M environment supported by Kernel. As VistA adjusts its strategies for configuring computer sites, the list of ANSI M environments supported by Kernel continues to change.

Operating system interfaces are involved in each aspect of Kernel. Identifying the M operating system upon Kernel installation starts processes that create the appropriate Kernel environment. To begin, the `^%ZOSF` global is built from an operating system-specific routine. By executing nodes of the `^%ZOSF` global, implementation-specific functions that are *not* part of ANSI M are possible. Functions include turning echo on or off, allowing type-ahead, or reporting the current UCI.

Other operating system-specific routines distributed with Kernel include:

- `%ZIS4` for spooling.
- `%ZOSV` for system viewing.
- `%XUCI` for UCI swapping.
- `ZU` for tied terminals.

The `%ZOSV` routine contains code that enables use of the **VIEW** command and **\$VIEW** function to get information from the operating system. Another routine, TaskMan's `%ZTM`, similarly makes possible the use of a protected M procedure, the **JOB** command, to spawn jobs on a mounted volume set.

Kernel allows processors running different operating systems to be linked. The `^%ZOSF` global makes this possible, too. The `^%ZOSF` global is never translated, and thus, can retain processor-specific information.

The Manager account is generally reserved for operating system-specific routines and globals. Part of Kernel, however, *must* also reside in this account to take care of certain input/output procedures. To avoid collision with pre-existing operating system routines and globals, Kernel uses the local **Z** namespace. Globals in the Manager account include:

- **^%ZTSK** and **^%ZTSCH** for TaskMan
- **^%ZUA** for audit data
- **%Z** as the routine editor

Routines include the **%ZTM*** (TaskMan) and **%ZIS*** (Device Handler).

Kernel's use of variables illustrates the way it functions as a buffer between the host operating system and VistA applications. It uses M special variables to create utilities for use by application developers. **\$HOROLOG** is used by VA FileMan in date/time routines such as **%DT** and **%DTC**, **\$JOB** is used by TaskMan, and **\$IO** is used by the Device Handler. In turn, Kernel has key variables that can be referenced by VistA application routines. Perhaps not surprisingly, one of these is **DT** and another is **IO**. As VistA system-wide variables, they are documented in the VistA Standards and Conventions (SAC).

10.3 Required Software

Kernel 8.0 and Kernel Toolkit 7.3 require the following VistA software:

- VA FileMan 22.2
- MailMan 8.0



REF: For more details, see the Kernel Installation Guide and Toolkit Installation Guide.

10.4 DBA Approvals and Integration Control Registration (ICRs)

The Database Administrator (DBA) maintains a list of Integration Control Registrations (ICRs) or mutual agreements between software developers allowing the use of internal entry points or other software-specific features that are *not* available to the general programming public.

To communicate with the underlying operating system files, Kernel has the approval of the DBA to reference the following globals:

- **^%ET**
- **^%IS**
- **^%SY**
- **^CPU**
- **^RTH**
- **^SPOOL**
- **^SYS**

10.4.1 ICRs—Current List for Kernel or Kernel Toolkit as Custodian

To obtain a current list of ICR to which the Kernel (XU) or Kernel Toolkit (XT) software is a custodian, perform the following procedure:

1. Sign on to the **FORUM** system.
2. Go to the **DBA** menu [DBA].
3. Select the **Integration Agreements Menu** option [DBA IA ISC].
4. Select the **Custodial Package Menu** option [DBA IA CUSTODIAL MENU].
5. Choose the **ACTIVE by Custodial Package** option [DBA IA CUSTODIAL].
6. When prompted for a package, enter **XU** or **Kernel**; **XT** or **Toolkit**.
7. All current IAs to which the Kernel or Kernel Toolkit software is a custodian are listed.

10.4.2 ICRs—Detailed Information

To obtain detailed information on a specific Integration Control Registration, perform the following procedure:

1. Sign on to the **FORUM** system.
2. Go to the **DBA** menu [DBA].
3. Select the **Integration Agreements Menu** option [DBA IA ISC].
4. Select the **Inquire** option [DBA IA INQUIRY].
5. When prompted for “INTEGRATION REFERENCES,” enter the specific Integration Control Registration number of the ICR you would like to display.
6. The option then lists the full text of the ICR you requested.

10.4.3 ICRs—Current List for Kernel or Kernel Toolkit as Subscriber

To obtain the current list of IAs, if any, to which the Kernel (XU) or Kernel Toolkit (XT) software is a subscriber, perform the following procedure:

1. Sign on to the **FORUM** system.
2. Go to the **DBA** menu [DBA].
3. Select the **Integration Agreements Menu** option [DBA IA ISC].
4. Select the **Subscriber Package Menu** option [DBA IA SUBSCRIBER MENU].
5. Choose the **Print ACTIVE by Subscribing Package** option [DBA IA SUBSCRIBER].
6. When prompted with “START WITH SUBSCRIBING PACKAGE,” enter **XU** or **KERNEL**; **XT** or **TOOLKIT** (uppercase).
7. When prompted with “GO TO SUBSCRIBING PACKAGE,” enter **XU** or **KERNEL**; **XT** or **TOOLKIT** (uppercase).

8. All current IAs to which the Kernel (XU) or Kernel Toolkit (XT) software is a subscriber are listed.

11 Internal Relations

11.1 Independence of Options

All of Kernel's options can be invoked independently. None requires any special setup in order to run successfully.

When rearranging options on menus, care should be taken that security is preserved. In several cases, a menu is locked with a security key, but all the options on that menu are *not* locked with the same key. In other cases, items are assumed to be locked because the parent menu is itself locked. So, if an option were placed on another menu, the security on that option could be lost. This situation exists for some options on the following menus:

- **Audit Menu** (VA FileMan, locked with the XUAUDITING security key)
- **Filegrams** (locked with the XUFILEGRAM security key)
- **KIDS Installation Menu** (locked with the XUPROGMODE security key)
- **KIDS Main Menu** (locked with the XUPROG security key)
- **Programmer Options** (locked with the XUPROG security key)
- **ScreenMan** (locked with the XUSCREENMAN security key)
- **VA FileMan Management** (locked with the XUMGR security key)

12 Software-Wide Variables

[Table 30](#) lists the software-wide key variables that can be assumed to be defined at all times when operating within the menu system, as per Appendix 10-B in of VA's *Veterans Health Administration Manual M-11 (Medical Information Resources Management Office: Operations Document)*:

Table 30: Variables—Defined at All Times

Variable	Description
DUZ	Internal entry number (IEN) from the NEW PERSON (#200) file.
DUZ(0)	User's FILE MANAGER ACCESS CODE string.
DUZ(2)	User's institutional affiliation. It is the internal entry number from the Institution file.
DUZ("AG")	User's agency code.
DT	Current date in VA FileMan internal format.
DTIME	Integer value of the number of seconds the user has to respond to a timed read.
IO	Hardware name (\$I) of the last selected input/output device.
IOF	Contains the code to issue a form feed for the last selected input/output device.
IOM	Column position of the right margin, for the last selected input/output device.
ION	Name of the last selected input/output device from the DEVICE (#3.5) file (.01 field value).
IOSL	Variable indicating the number of lines on the last selected input/output device (e.g., screen or page length).
IOST	The last selected input/output device's subtype from the TERMINAL TYPE (#3.2) file (.01 field value).
IOT	Type of the last selected input/output device, such as TRM for terminal.

In addition to the variables described in Appendix 10-B of the M-11 manual, [Table 31](#) lists the variables defined by Kernel while a user is in the menu system:

Table 31: Variables—Defined While a User is in the Menu System

Variable	Description
DUZ("AUTO")	Current auto-menu flag.
DUZ("LANG")	Contains a pointer to VA FileMan's LANGUAGE (#.85) file, which VA FileMan uses for language-specific displays of prompts, dates and times, and dialogs (from the DIALOG [#.84] file).
IO(0)	\$I value of the home device at the time of the call to the Device Handler

Variable	Description
	(^%ZIS).
IOBS	Contains the code to issue a backspace for last selected input/output device.
IOS	Internal entry number of the last selected input/output device from the DEVICE (#3.5) file.
IOST(0)	The last selected input/output device's subtype from the TERMINAL TYPE (#3.2) file (internal entry number).
IOXY	Value of the XY field from the TERMINAL TYPE (#3.2) file for the last selected input/output device.

[Table 32](#) lists the software-wide variable is defined within the menu system if alpha-beta tracking is taking place:

Table 32: Variables—Defined While a User is in the Menu System with Alpha-Beta Tracking

Variable	Description
XQABTST	Flag that signals whether alpha-beta testing is in effect.

13 SACC Exemptions

[Table 33](#) lists the Standards and Conventions (SAC) exemptions that currently pertain to Kernel and Kernel Toolkit that were granted by the Programming Standards and Conventions Committee (SACC). The table includes the following data:

- Standards Section Number
- Nature of Exemption
- Date Created (Granted)
- Description

Table 33: SAC Exemptions

#	Standards Section Number	Nature of Exemption	Date Created	Description
1	6D	FM compatibility		The ^XUTL global is exempted from VA FileMan compatibility. It is a <i>non</i> -translated, completely re-creatable global used in MenuMan.
2	2D2	* and # READs	08/10/1989	The ZISL* and ^%Z editor can use * and # -readers.
3	6D	FM compatibility	08/10/1989	The following globals are exempt from VA FileMan compatibility: <ul style="list-style-type: none"> • ^%Z • ^%ZTSK • ^%ZTSCH • ^%ZOSF • ^%ZIS("C") and ^%ZIS("H")
4	1	ANSI	05/14/1990	TaskMan routines can use extended global references.
5	2B	Exclusive & Argumentless KILL	05/14/1990	The Submanager of TaskMan can use exclusive KILL commands in the portion of the Submanager that is responsible for recycling the partition.
6	2A	H XUS	05/14/1990	The routine %ZTM can use the HALT command.
7	2A	OPEN, CLOSE device	05/14/1990	TaskMan routines can use direct OPEN and CLOSE commands.
8	1	ANSI	06/18/1990	Kernel can use operating-specific code, which uses many implementation-specific language features.

#	Standards Section Number	Nature of Exemption	Date Created	Description
9	3A	Namespacing	06/18/1990	Kernel can export Z namespaced routines and XUCI* , DIDT* , and DIRCR to be renamed as % routines when installed.
10	2B	Exclusive & Argumentless KILL	06/18/1990	The Kernel login (XUS) and the Error Trap restore variable routines (XTER*) can use exclusive KILL statements.
11	4A	DUZ-array SET & KILL	06/18/1990	The following Kernel routines can SET or KILL the DUZ variable: <ul style="list-style-type: none"> • ZTM* • ZTEDIT3 • XQSMD31 • XQSRV • XQ1 • XQ12
12	2A	OPEN, CLOSE device	06/18/1990	The Device Handler and Kernel Operating-specific code can issue direct OPEN and CLOSE commands.
13	2A	H XUS	06/18/1990	Kernel (Signon/Security) can issue a HALT command in the routines ZU* without using the ^XUSCLEAN entry point.
14	9B	%ZOSF nodes	06/18/1990	Kernel Operating-specific code can make direct calls to operating system routines rather than using the ^%ZOSF global.
15	2D2	* & # READs	11/29/1990	Kernel can use a #255 READ in the ZOSV* routines.
16	2B	Exclusive & Argumentless KILL	02/07/1991	Kernel can use an exclusive KILL in the utility to clean up variables when exiting from an option.
17	8A	Queueing, \$I	07/12/1993	Kernel is granted an exemption for the XUPR-RTN-TAPE-CMP option to be <i>non-queueable</i> .
18	NA	NA	12/07/1994	Permanent exemption for Kernel 8.0 to use the following M language Features:

#	Standards Section Number	Nature of Exemption	Date Created	Description
				<ul style="list-style-type: none"> • Merge Command • \$Order with two arguments • \$Get with two arguments • \$Name • Set \$Extract • Pattern match with alternation • Sorts After operator • Missing parameters in calling list • Set \$X and \$Y • 10k routine size • \$Qlength • \$Qsubscript • \$Principal • All Structured System Variable Names (SSVNs) • M standard Error Processing • Global subscript length <i>not</i> to exceed 240 character (KIDS <i>only</i>) or 200 characters for the remainder of Kernel. Length is determined by algorithm in 1994 draft SAC.
19	NA	NA	12/07/1994	Permanent exemption for Kernel Installation and Distribution System (KIDS) to Set DUZ and DUZ(0) .

14 Global Protection, Translation, and Journaling

An outline of a possible scheme for the management of Kernel globals is presented in this section.

Cookbook recommendations should also be consulted. DSM for OpenVMS sites should refer to the most recent *VAX DSM Systems Guide* (otherwise known as the Cookbook) for recommendations concerning global characteristics.

Kernel's recommendations and the cookbooks' recommendations should serve as examples as you manage your site's global configuration.

14.1 Globals in Production Account

Table 34: Globals in Production Account—Protection, Translation and Journaling Information

Global Name	DSM for OpenVMS Protection	Translate?	Journal? / Comments
^DIC	System: RWP W/G/U: RW	Yes	See <i>VA FileMan Technical Manual</i>
^HOLIDAY	System: RWP W/G/U: RW	Yes	
^TMP	System: RWP W/G/U: RW	Separate Copy per CPU	
^USC	N/A	Yes	The PERSON CLASS file is in the ^USC global. Please be sure to place this global and add it to your translation tables. This is a static file.
^UTILITY	System: RWP W/G/U: RW	Separate Copy per CPU	
^VA	System: RWP W/G/U: RW	Yes	Yes
^XMB	System: RWP W/G/U: RW	Yes	See <i>MailMan Technical Manual</i>
^XMBS	System: RWP W/G/U: RW	Yes	See <i>MailMan Technical Manual</i>
^XPD	System: RWP W/G/U: RW	Yes	
^XTV	System: RWP W/G/U: RW	Yes	Yes

Global Name	DSM for OpenVMS Protection	Translate?	Journal? / Comments
^XTMP	System: RWP W/G/U: RW	Yes	
^XUSEC	System: RWP W/G/U: RW	Yes	
^XUTL	System: RWP W/G/U: RW	<ul style="list-style-type: none"> • ^XUTL = Separate Copy per CPU. • ^XUTL("XGAT R") = Translated. • ^XUTL("XQKB") = Translated. • ^XUTL("XQO") = Translated. • ^XUTL("XQOR M") = Translated. 	
^%ZIS	System: RWP World: RW Group: RW UCI: RWP	<ul style="list-style-type: none"> • Yes 	
^%ZISL	System: RWP World: RW Group: RW UCI: RWP	<ul style="list-style-type: none"> • Yes 	
^%ZOSF	System: RWP World: R Group: R UCI: RWP	<ul style="list-style-type: none"> • Separate Copy per CPU 	
^%ZTER	System: RWP World: RW Group: RW UCI: RWP	<ul style="list-style-type: none"> • Yes 	
^%ZTSCH	System: RWP World: RW Group: RW UCI: RWP	<ul style="list-style-type: none"> • Yes* 	

Global Name	DSM for OpenVMS Protection	Translate?	Journal? / Comments
^%ZTSK	System: RWP World: RW Group: RW UCI: RWP	<ul style="list-style-type: none"> Yes* 	
^%ZUA	System: RWP World: R Group: RW UCI: RW	<ul style="list-style-type: none"> Yes 	Yes

There should be only one copy of the TaskMan globals (**^%ZTSCH** and **^%ZTSK**) within TaskMan's reach. At VA sites, TaskMan's reach is across all CPUs. Other sites should evaluate TaskMan's reach in their configurations. Also, at DSM for OpenVMS sites, these globals should *not* be in a volume set that is cluster-mounted across all systems; instead, master from **two** nodes and DDP server to the other nodes.



REF: For more information about TaskMan's reach, see the *Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide*.

15 Security

15.1 Security Management

To protect the security of VistA systems, distribution of this software for use on any other computer system by VistA sites is prohibited. All requests for copies of Kernel for *non*-VistA use should be referred to the VistA site's local Office of Information Field Office (OIFO).

Otherwise, there are no special legal requirements involved in the use of Kernel.

15.2 Mail Groups, Alerts, and Bulletins

15.2.1 Mail Groups

Kernel and Kernel Toolkit do *not* create or use any specific mail groups, but it does provide fields, files, options, APIs, and utilities for creating/processing mail groups.

15.2.2 Alerts

Kernel and Kernel Toolkit do *not* make use of alerts itself, but it does provide fields, files, options, APIs, and utilities for creating/processing alerts.

15.2.3 Bulletins

Kernel and Kernel Toolkit distribute the following bulletins:

Table 35: Bulletins—Kernel and Kernel Toolkit

Name	Description	Subject	Message	Parameters
XDR ERROR	This bulletin is sent by the Kernel Duplicate Resolution software when an error that halts the process is encountered by a background task. It is only sent if there is an entry in the Duplicate Manager mail group in the DUPLICATE RESOLUTION (#15.1) file.	ERROR DURING DUPLICATE CHECKING OR MERGE	NOWRAP This is to notify you that an error was encountered while trying to either check for duplicates or during the early merge process of the 1 file. From DA/DFN: 2 To DA/DFN: 3 4 5 WRAP 6	<ul style="list-style-type: none"> • 1—File from which the two records come from. • 2—From record's DA/DFN. • 3—To record's DA/DFN. • 4—Internal value of the .01 field of the From Record. • 5—Internal value of the .01 field of the To Record. • 6—Error condition that was encountered.
XDR MERGED	This bulletin is sent by the Kernel Duplicate Resolution software when a Verified Duplicate pair is merged together. This bulletin is sent only if a package merge developer does <i>not</i> have a routine that sends its own customized merge message.	NOTIFICATION OF DUPLICATES MERGED	WRAP The following records from the 1 file have been merged. NOWRAP From record DA/DFN: 2 To record DA/DFN: 3 4 5 WRAP The FROM Record has now been merged to the TO Record. NOWRAP 6	<ul style="list-style-type: none"> • 1—File from which the two records come from. • 2—From record's DA/DFN. • 3—To record's DA/DFN. • 4—Internal value of the .01 field of the From Record. • 5—Internal value of the .01 field of the To Record. • 6—Package

Name	Description	Subject	Message	Parameters
				merge error listing header.
XDR VERIFIED	<p>This bulletin is sent by the Kernel Duplicate Resolution software anytime a pair of Potential Duplicates is reviewed, and the operator determines that the pair is indeed Verified Duplicates.</p> <p>This bulletin is sent only if a package merge developer does <i>not</i> have a routine that sends its own customized verified message.</p>	NOTIFICATION OF VERIFIED DUPLICATES	<p>[WRAP] The following records have been identified as Verified Duplicates of the [1] file: [NOWRAP] From record DA/DFN: [2] To record DA/DFN: [3] [4] [5] [WRAP] The FROM record will be merged to the TO record. Please resolve any package discrepancies so that the merge may proceed.</p>	<ul style="list-style-type: none"> • 1—File from which the two records come from. • 2—From record's DA/DFN. • 3—To record's DA/DFN. • 4—Internal value of the .01 field of the From Record. • 5—Internal value of the .01 field of the To Record.
XQSERVER	This is the standard, or default, bulletin used by the menu system to notify system administrators and users about server request events.	Server Request Notice	<p>[1] A request for execution of a server option has been received. Sender: [2] Option name: [3] Subject: [4] Message #: [5] Comments: [6]</p>	<ul style="list-style-type: none"> • 1—Date and time in human-readable form when the server request was received. • 2—Name of the sender of the server request. • 3—Name of the option that was requested by Mailman. • 4—Subject of the message which requested a

Name	Description	Subject	Message	Parameters
				server. <ul style="list-style-type: none"> • 5—Internal number of the message requesting a server. • 6—Comments appended to the bulleting. These may include errors trapped by the server software and/or the operating system, as well as general purpose messages.
XTRMON	This bulletin is used by the XTRMON routine to send mail messages about routines that change in the set of routines being tracked.	Changes to routines	A check of the routines in 3 on 1 showed that 2 routines changed, Here is the list:	
XU-INSTALL-DONE	This bulletin sends a message back to the developers when an install has been done.	Install of package done.	Package '1 ' version 2 was installed at site 4 by 5 . Timing data: INIT started at 6 Pre-INIT started at 7 Pre-INIT finished at 8 Post-INIT started at 9 and finished at 3 For a TOTAL of	


Name	Description	Subject	Message	Parameters
			10 (hh:mm:ss).	
XUMF ERROR	This bulletin is triggered upon receipt of a Master File Notification message from the Master File Server.	Master File Server - error message	<p>The Master File Server has received a Message Acknowledgement (MSA) segment with an Acknowledgement Code indicating an application error for the following message:</p> <p>HL7 Message ID: 1 </p> <p>Server message: 2 </p> <p>HL7, FM, or other message: 3 </p> <p> 4 </p> <p>This message <i>must</i> be investigated, or the master file related to this message will be out of sync with the national standard table.</p>	<ul style="list-style-type: none"> • 1—Message Control ID. • 2—Message from MFS. • 3—Message from HL7 application, VA FileMan (FM), or other source. • 4—FM error message.
XUMF INSTITUTION	This bulletin notifies the XUMF INSTITUTION mail group that an unsolicited update message has been received and processed by the Master File Server (MFS) mechanism. An INSTITUTION	Master File Server - update notification - INSTITUTION file	<p>The following Master File Notification (MFN) message was received and processed by the Master File Server:</p> <p>HL7 Message ID: 1 </p> <p>The following INSTITUTION (#4) file entry has been 2 :</p> <p>IEN: 3 STATION</p>	<ul style="list-style-type: none"> • 1—Message ID. • 2—Added or Updated. • 3—Internal Entry Number. • 4—STATION NUMBER. • 5—NAME. • 6—OFFICIAL VA NAME. • 7—FACILITY

Name	Description	Subject	Message	Parameters
	(#4) file entry has been added / updated.		<p>NUMBER: 4 </p> <p>UPDATED ENTRY</p> <p>-----</p> <p>NAME: 5 </p> <p>OFFICIAL VA NAME: 6 </p> <p>FACILITY TYPE: 7 </p> <p>INACTIVE FACILITY FLAG: 11 </p> <p>VISN: 13 </p> <p>PARENT FACILITY: 14 </p> <p>STREET ADDR. 1: 19 </p> <p>CITY: 20 </p> <p>STATE: 12 </p> <p>ZIP: 22 </p> <p>ST. ADDR. 1 (MAILING): 23 </p> <p>CITY (MAILING): 24 </p> <p>STATE (MAILING): 25 </p> <p>ZIP (MAILING): 26 </p> <p>OLD VALUES</p> <p>-----</p> <p>NAME: 8 </p> <p>OFFICIAL VA NAME: 9 </p> <p>FACILITY TYPE: 10 </p> <p>INACTIVE FACILITY FLAG: 15 </p> <p>VISN: 17 </p> <p>PARENT FACILITY: 18 </p> <p>STREET ADDR.</p>	<p>TYPE.</p> <ul style="list-style-type: none"> • 8—OLD NAME. • 9—OLD OFFICIAL VA NAME. • 10—OLD FACILITY TYPE. • 11—INACTIVE FACILITY FLAG. • 12—STATE. • 13—VISN. • 14—PARENT FACILITY. • 15—OLD INACTIVE FACILITY FLAG. • 16—OLD STATE. • 17—OLD VISN. • 18—OLD PARENT FACILITY. • 19—STREET ADDR. 1. • 20—CITY. • 22—ZIP. • 23—ST. ADDR. 1 (MAILING). • 24—CITY (MAILING). • 25—STATE (MAILING). • 26—ZIP (MAILING). • 27—OLD STREET

Name	Description	Subject	Message	Parameters
			1: 27 CITY: 28 STATE: 16 ZIP: 29 ST. ADDR. 1 (MAILING): 30 CITY (MAILING): 31 STATE (MAILING): 32 ZIP (MAILING): 33	ADDR. 1. <ul style="list-style-type: none"> • 28—OLD CITY. • 29—OLD ZIP. • 30—OLD ST. ADDR. 1 (MAILING). • 31—OLD CITY (MAILING). • 32—OLD STATE (MAILING). • 33—OLD ZIP (MAILING).
XUPROGMODE	User going into progmode message.	DROPPING INTO PROGRAMMER MODE	User # 1 has dropped into programmer mode on device 2	<ul style="list-style-type: none"> • 1—User name. • 2—Device.
XUS ACCESS CODE VIOLATION	This bulletin is sent by the Syntax check of the ACCESS CODE field of the USER file, whenever someone tries to assign an ACCESS CODE that is already in use for a different user. The bulletin goes to whoever is in the mail group, plus the user who tried to input the code.	A USER HAS SEEN ANOTHER USER'S ACCESS CODE	The user above tried to assign the ACCESS CODE that already belonged to 1 . 1 should change his/her code as soon as possible, since its secrecy has now been compromised.	<ul style="list-style-type: none"> • 1—Name of the USER whose ACCESS CODE was discovered.
XUSECURITY	This bulletin is sent by the signon system if a user uses a terminal that has SECURITY	SIGN-ON DISALLOWED ON SECURED TERMINAL	User 1 tried to sign on to device 2 , which has SECURITY code 3 , but 1 has security code ' 4 '.	<ul style="list-style-type: none"> • 1—Name of User. • 2—Device. • 3—Device's security code.

Name	Description	Subject	Message	Parameters
	to sign on, and his DUZ(0) code is <i>not</i> found in the terminal's SECURITY code, as the FILE MANAGER ACCESS CODE attempts to sign on.		Use ^UTIO to edit the device's SECURITY, if necessary.	<ul style="list-style-type: none"> • 4—User's security code.
XUSERDEAC	This bulletin is sent to the ISO SECURITY mail group when a user gets deactivated.	XUSER DEACTIVATION	User name : 1 Title: 2 Service: 3 IEN: 4 Station #: 5 was deactivated on 6 .	<ul style="list-style-type: none"> • 1—Name of user who gets deactivated. • 2—Title. • 3—Service. • 4—Internal Entry Number (IEN). • 5—Station Number and Name. • 6—Deactivation Date.
XUSERDIS	This bulletin is sent to the ISO SECURITY mail group when a user has the DISUSER field set to YES .	USER DISUSER	User name : 1 Title: 2 Service: 3 IEN: 4 Station #: 5 was deactivated on 6 .	<ul style="list-style-type: none"> • 1—Name of user who gets deactivated. • 2—Title. • 3—Service. • 4—Internal Entry Number (IEN). • 5—Station Number and Name. • 6—Deactivation Date.
XUSERTERM	This bulletin is issued whenever a message <i>cannot</i> be delivered after the Simple	USER TERMINATION	USER 1 has been terminated as of 2 The error message was '3 '.	<ul style="list-style-type: none"> • 1—Name of the remote site rejecting the message (may be

Name	Description	Subject	Message	Parameters
	Mail Transfer Protocol (SMTP) DATA command is issued. It indicates that the “ Mail From: ” and RCPT (recipient) commands were successfully issued, but that something in the header of the message was rejected, such as duplicate message ID. The error message returned by the remote receiver is included in the bulletin.			<p>intermediate relay).</p> <ul style="list-style-type: none"> • 2—Title and message number of message which was rejected. • 3—Rejection message issued by the rejecting receiver.
XUSIGNON	This bulletin is triggered whenever someone signs on through XUS .	USER SIGNING ON	User 2 has signed on at Device 3 .	<ul style="list-style-type: none"> • 1—User number (‘DUZ’) of user signing on. • 2—Name of user. • 3—Device at which sign-on occurred.
XUSLOCK	This bulletin is triggered when the number of bad signons causes a terminal device or IP address to be “locked out”.	DEVICE LOCKED DUE TO BAD SIGN-ONS	<p>Device 1 has made 2 bad sign-on attempts and has been locked.</p> <p>The device will automatically clear after the Lockout time in the Kernel System Parameters. To make the device</p>	<ul style="list-style-type: none"> • 1—Name of device being locked. • 2—Number of bad signons recorded for the device. • 3—Name of the device to release.

Name	Description	Subject	Message	Parameters
			or IP address useable before the lockout time is up use the “CLEAR TERMINAL” or “Release IP lock” option to make the device available again. Select 3 as the device to release.	
XUSSPKI CRL SERVER	This bulletin is sent when the CRL UPLOAD TASK has a problem.	CRL UPLOAD MESSAGE	At 2 The CRL Upload task reported the following problem. “ 1 ” Be sure that the “CRLService” is running on the server. Try stopping and restarting the service. It should be listening on a specific port.	<ul style="list-style-type: none"> • 1—Error message. • 2—Date time of the message.
XUSSPKI SAN	<p>This bulletin is sent when the SUBJECT ALTERNATIVE NAME (#501.2) field in the NEW PERSON (#200) file has been changed or deleted. The bulletin is sent to users holding the PSDMGR security key.</p> <p> NOTE: Released with Kernel Patch XU*8.0*58</p>	“Subject Alternative Name” field	<p>The “Subject Alternative Name” field in New Person File (#200) has been changed or deleted for: 3 </p> <p>Before: 1 </p> <p>After: 2 </p>	<ul style="list-style-type: none"> • 1—Old value before changed or deleted. • 2—New value. If NULL, value was deleted. • 3—Name of the user.

Name	Description	Subject	Message	Parameters
	0.			
XUSTIME	This bulletin is triggered by the Signon system if the device being used has a "PROHIBITED SIGN-ON TIMES" value, and somebody has tried to sign on during that prohibited time period; the prohibited time frame.	SIGN-ON TO A TERMINAL DURING PROHIBITED TIME	" 2 " attempted to sign on to device 1 with code " 3 ", but the device is locked out during the time period 4 .	<ul style="list-style-type: none"> • 1—Device name (\$I). • 2—User name. • 3—Access code used for sign-on. • 4—Time range during which sign-on is prohibited.
XUTM PROBLEM DEVICES	This bulletin is used by the XUTMKA routine to report devices that TaskMan is having problems opening.	Problem Devices	This is the XUTM PROBLEM DEVICE bulletin; it reports devices that TaskMan is having problems opening. The list shows the \$I value for the device.	None
XUVISIT	This is the default XUESSO bulletin that is issued at the time a new visitor is entered in the NEW PERSON (#200) file. A "visitor" is a user who has been validated at another VA site and is entered in your data base, so that he or she may look up patient data.	A visitor has been added to your New Person File	1 A visitor has been added to your New Person File with no Access or Verify Codes. Name: 2 DUZ: 3 This visitor was authenticated at 4 , (5). This user has a DUZ of 6 on the authenticating system, and a phone number of 7 . This is the bulletin	<ul style="list-style-type: none"> • 1—Title/date of this bulletin. • 2—Name of the visitor. • 3—DUZ of this visitor in the New Person File. • 4—Name of the site where the visitor was authentica

Name	Description	Subject	Message	Parameters
			named XUVISIT.	ted. <ul style="list-style-type: none"> • 5— Number of the site where the visitor was authenticated. • 6— Visitors DUZ at the authenticating site. • 7— Visitor's phone number at the authenticating site.

15.3 Remote Systems

Kernel provides options and utilities for accessing remote (and local) systems.

15.4 Interfaces

Kernel interfaces with the following VA products:

- Kernel Toolkit 7.2 or higher.
- VA FileMan 21.0 or higher.
- MailMan 7.0 or higher.

The Assigning Person Class to Providers software (i.e., Kernel Patches XU*8.0*27, 377, and 531) allows for interfaces with all of the VistA Clinical Software developed in-house. It also allows for interfaces with the QuadraMed Encoder Product Suite, which is a Commercial-Off-The-Shelf (COTS; *non-VA*) software product.



REF: For more information on QuadraMed products, see the QuadraMed website at the following Web address: <http://www.quadramed.com>

Kernel and Kernel Toolkit do *not* embed or require any special interfaces to any other COTS (*non-VA*) products; other than those provided by the underlying operating systems.

15.5 Electronic Signatures

Kernel and Kernel Toolkit do *not* use any electronic signatures within the software itself; however, it does provide fields, files, options, APIs, and utilities for creating and processing electronic signatures.

15.5.1 Electronic Signature Restrictions

As of Patch XU*8.0*679, the system restricts access to electronic signature fields in the NEW PERSON (#200) file for sites that elect to enable this functionality. Prior to Patch XU*8.0*679, any user could access the following fields in the NEW PERSON (#200) file through the Electronic Signature options on the Vista **User's Toolbox** [XUSERTOOLS] menu:

- DEGREE (#10.6)
- SIGNATURE BLOCK PRINTED NAME (#20.2)
- SIGNATURE BLOCK TITLE (#20.3)

If restrictions are enabled, then access to these fields is allowed only for users who are assigned the XUSIG security key.

To enable restrictions, authorized site personnel *must* set the XU SIG BLOCK DISABLE general parameter to a value of **ON (1)**. The parameter definition is stored in the PARAMETER DEFINITION (#8989.51) file, and the parameter data is stored in the PARAMETER (#8989.5) file:

- If the XU SIG BLOCK DISABLE parameter is set to **ON** and the user has the XUSIG security key assigned in the NEW PERSON (#200), then access to the restricted fields is allowed.
- If the XU SIG BLOCK DISABLE parameter is set to **ON**, but the user does *not* have the XUSIG security key assigned, then access to the restricted fields is *not* allowed.
- If the site leaves the XU SIG BLOCK DISABLE parameter set to **OFF (0)**, then access to all electronic signature fields is allowed.

The following two options on the Vista **User's Toolbox** [XUSERTOOLS] menu were affected by Patch XU*8.0*679:

- **Electronic Signature Code Edit** [XUSESIG]
- **Electronic Signature Block Edit** [XUSESIG BLOCK]

If the XU SIG BLOCK DISABLE parameter is set to **ON**, then only supervisors holding the XUSIG security key can update the SIGNATURE BLOCK PRINTED NAME (#20.2) and SIGNATURE BLOCK TITLE (#20.3) fields through the **Electronic Signature Code Edit** [XUSESIG] option, and the SIGNATURE BLOCK PRINTED NAME (#20.2) and DEGREE (#10.6) fields through the **Electronic Signature Block Edit** [XUSESIG BLOCK] option. In addition, the patch enables access to the SIGNATURE BLOCK TITLE (#20.3) field through the **Electronic Signature Block Edit** [XUSESIG BLOCK] option. This allows supervisors holding the XUSIG security key to enter the SIGNATURE BLOCK TITLE (#20.3) for other users after the XU SIG BLOCK DISABLE parameter is set to **ON**.

To maintain valid educational credentials, DEGREE (#10.6) field entries made through the **Electronic Signature Block Edit** [XUSESIG BLOCK] option are restricted to valid degrees stored in the EDUCATION (#20.11) file. To support this functionality, Patch XU*8.0*679 added the **EDUCATION (Degree) File Edit** [XUSESIG DEG] option to the **User Management** [XUSER] menu. The **EDUCATION (Degree) File Edit** [XUSESIG DEG] option, which is locked by the XUSIG security key, enables maintenance of DEGREE field entries in the EDUCATION (#20.11) file. VistA uses these records to validate user entries when appending one or more degrees to an electronic signature. This validation applies even when the XU SIG BLOCK DISABLE parameter is set to **OFF**.



NOTE: Because VistA automatically cross-references DEGREE (#10.6) field entries in the NEW PERSON (#200) with the DEGREE (#6) field in the NAME COMPONENTS (#20) file, any updates made directly to the DEGREE (#6) field in the NAME COMPONENTS (#20) file will also be validated against degrees in the EDUCATION (#20.11) file.

15.6 Security Keys

For a list of security keys exported with Kernel and Kernel Toolkit, use the VA FileMan **Inquire to File Entries** option [DIINQUIRE] as shown in [Figure 18](#).

Figure 18: Security Keys—Obtaining Security Key Information for Kernel

```

Select OPTION: INQUIRE <Enter> TO FILE ENTRIES

OUTPUT FROM WHAT FILE: OPTION// SECURITY <Enter> KEY (119 entries)
Select SECURITY KEY NAME: XU

```



Enter a Kernel or Kernel Toolkit namespace (e.g., XU or XT).


```

1  XUARCHIVE
2  XUAUDITING
3  XUAUTHOR
4  XUEXKEY
5  XUFILEGRAM
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: <Enter>
.
.
.

```

Table 36: Security Keys—Kernel and Kernel Toolkit

Security Key	Description
XDR	This security key allows access to the Duplicate Resolution System.
XDRMGR	<p>This security key allows a user access to the Kernel Duplicate Resolution Manager Utilities.</p>  <p>This security key should only be given to the people responsible for management of the various Duplicate Resolution packages (e.g., Patient Registration).</p>
XQAL-DELETE	This security key permits a user to delete alerts associated with another user. This key <i>must</i> be held in order for the user to have this capability.
XQSMDFM	This security key is required for use of the XQSMD LIMITED FM option to permit users to build some options based on VA FileMan templates.
XTLKZMGR	This security key unlocks the option to create/modify entries in the ICD files.
XTLKZUSER	This security key unlocks the Auto-Coding Utility [XTLKUSER] menu.
XUARCHIVE	This security key is needed to access the Archiving menu or to run any of the archiving options.
XUAUDITING	This security key is needed to access the Auditing menu or to run any of the Auditing options.
XUAUTHOR	This security key allows the holder to edit all existing help frames, using ^E when the frame is displayed, as well as allowing the holder to create new frames from within the menu system.
XUEPCSEDT	<p>This security key is required for individuals who will enter data related to electronic prescribing of controlled substances (eCPS) for providers.</p>  <p>CAUTION: The holder of this key CANNOT also hold the XUORES security key. They are exclusive keys, and should <i>not</i> both be held by an individual at the same time.</p>
XUEXKEY	This security key allows access to the XUEXKEY option.
XUFILEGRAM	This security key is needed to access the Filegram menu or to run any of the Filegram options except the View Filegram option.
XULM LOCKS	Controls access to the Kernel Lock Manager.
XULM SYSTEM LOCKS	Controls access to the system-level locks.
XUMF INSTITUTION	This security key locks the XUMF INSTITUTION option.

Security Key	Description
XUMGR	<p>This security key is for users who need to act as site management staff. This key gives the user access to see information that is normally only available to the user that created it. This is a partial list of its uses:</p> <ul style="list-style-type: none"> • Allows its holders to create “Routine”-type Options in the OPTION file with bracket syntax ([UCI]) for UCI-switching. • Allows its holders to see the list of all spool file entries.
XUORES	<p>This security key is given to Non-VistA persons that are authorized to write orders in the chart.</p> <p>This security key is typically given to licensed Physicians.</p> <div style="display: flex; align-items: center;">  <p>CAUTION: DO NOT give this security key to anyone who has VistA access. Nor assign it to an individual option or menu.</p> </div> <p>Should the person who holds this key become a VistA user then this key should be de-allocated.</p>
XUPROG	Assign this security key to all users allowed to go into programmer options from the Menu system.
XUPROGMODE	This security key locks the Global List and “Programmer Mode options.
XUSCREENMAN	This security key is needed to access the ScreenMan menu.
XUSHOWSSN	This security key allows the user to enter all 9 digits of a person’s Social Security Number (SSN) for look up in the NEW PERSON (#200) file. Any user who does <i>not</i> hold this security key will <i>not</i> be allowed to use a 9 -digit SSN lookup on the NEW PERSON (#200) file .
XUSIG	<p>This security key is required to add and edit Electronic Signature fields using the Electronic Signature code Edit [XUSESIG] option and Electronic Signature Block Edit [XUSESIG BLOCK] options. The following fields in the NEW PERSON (#200) file are affected:</p> <ul style="list-style-type: none"> • DEGREE (#10.6) • SIGNATURE BLOCK PRINTED NAME (#20.2) • SIGNATURE BLOCK TITLE (#20.3)
XUSNPIMTL	This security key allows users to access the NPI (National Provider ID) Menu option [XUS NPI MENU]. This key is normally assigned to the Local NPI Maintenance Team Leader; the person with authority to assign/edit VA Provider NPIs.
XUSPF200	This security key allows special privileges in the NEW PERSON (#200) file. The first of these is that holders of this key do <i>not</i> have to enter a SSN to add a new person to the file.

Security Key	Description
ZTMQ	This security key allows users to use the advanced features of the TaskMan Dequeue Tasks, Requeue Tasks, and Delete Tasks options.

15.7 File Security

File number ranges for Kernel and Kernel Toolkit are as follows:

- 3.05 – 3.084
- 3.1 - 3.54
- 4.00 - 4.11
- 5.00 - 5.00
- 7 - 7.1
- 9.2 - 9.8
- 10
- 11
- 13
- 14.4 - 14.8
- 15 – 15.4
- 19.00 – 19.2
- 40.5
- 49
- 101.00
- 200 – 201
- 8932.10 - 8935.91
- 8980 - 8980.22
- 8984.1 – 8984.4
- 8989.2 – 8989.3
- 8991 – 8992.1

To print File Security Access for files for Kernel, go to the programmer prompt, enter **FileMan**, and do the following:



NOTE: You can sort by Number and select a range of file numbers. ;Lnn gives you control over column width.

Figure 19: File Security—Sample User Dialogue to Obtain File Security

```
Select OPTION: PRINT <Enter> FILE ENTRIES

OUTPUT FROM WHAT FILE: FILE// <Enter>
SORT BY: NAME// NUMBER

Enter a file number range within Kernel.

START WITH NUMBER: FIRST// 1.0
GO TO NUMBER: LAST// 4.6
WITHIN NUMBER, SORT BY: <Enter>

Here the user selected a print template previously created.

FIRST PRINT ATTRIBUTE: [FILE
1 FILE LIST (Aug 01, 1990@18:41) File #1
2 FILE SECURITY ACCESS (Aug 16, 2006@11:23) User #1529 File #1
3 FILE SECURITY CODES File #1
CHOOSE 1-3: 2 <Enter> (Aug 16, 2006@11:23) User #1529 File #1
WANT TO EDIT 'FILE SECURITY ACCESS' TEMPLATE? No// Y <Enter> (Yes)
NAME: FILE SECURITY ACCESS Replace <Enter>
READ ACCESS: @// <Enter>
WRITE ACCESS: @// <Enter>
FIRST PRINT ATTRIBUTE: NUMBER// NUMBER;L6
THEN PRINT ATTRIBUTE: NAME;L25// NAME;L30
THEN PRINT ATTRIBUTE: DD ACCESS;L3// <Enter>
THEN PRINT ATTRIBUTE: RD ACCESS;L3// <Enter>
THEN PRINT ATTRIBUTE: WR ACCESS;L3// <Enter>
THEN PRINT ATTRIBUTE: DEL ACCESS;L3// <Enter>
THEN PRINT ATTRIBUTE: LAYGO ACCESS;L3// <Enter>
THEN PRINT ATTRIBUTE: AUDIT ACCESS;L3// <Enter>
THEN PRINT ATTRIBUTE: <Enter>
Heading (S/C): FILE SECURITY ACCESS Replace <Enter>
STORE PRINT LOGIC IN TEMPLATE: FILE
1 FILE LIST (Aug 01, 1990@18:41) File #1
2 FILE SECURITY ACCESS (Jul 10, 2002@10:25) User #1529 File #1
CHOOSE 1-2: 2 <Enter> (Jul 10, 2002@10:25) User #1529 File #1
TEMPLATE ALREADY STORED THERE.... OK TO REPLACE? Y <Enter> (Yes)

START AT PAGE: 1// <Enter>
DEVICE: <Enter> Telnet terminal
```

[Figure 20](#) lists the *recommended* file security settings for access to Kernel and Kernel Toolkit files.

Figure 20: File Security—Recommended Kernel File Security Access

FILE SECURITY ACCESS		May 16, 2013 11:32					PAGE 1
NAME	NUMBER	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS	AUDIT ACCESS

FAILED ACCESS ATTEMPTS LOG	3.05	@	@	@	@	@	
PROGRAMMER MODE LOG	3.07	@	@	@	@	@	
ERROR LOG	3.075						
ERROR MESSAGES	3.076						
ERROR TRAP SUMMARY	3.077						
SIGN-ON LOG	3.081	@	@	@	@	@	@
LOCKED IP or DEVICE	3.083	@	@	#	@	@	@
FAILED SIGNON ATTEMPTS	3.084	@	@	#	@	@	@
TITLE	3.1	#	@	@	#	@	#
TERMINAL TYPE	3.2	#		#	#	#	#
DA RETURN CODES	3.22						
LINE/PORT ADDRESS	3.23	@	@	@	@	@	@
DEVICE	3.5	#	I	#	#	#	#
SPOOL DOCUMENT	3.51	@	@	@	@	@	@
SPOOL DATA	3.519						
RESOURCE	3.54						
INSTITUTION	4	@		#	@	#	
MASTER FILE PARAMETERS	4.001	@	@	@	@	@	@
MD5 Signature	4.005						
STANDARD TERMINOLOGY VERSION F	4.009	@	@	@	@	@	@
INSTITUTION ASSOCIATION TYPES	4.05	@		@	@	@	@
FACILITY TYPE	4.1	@		#	@	@	@
AGENCY	4.11	@		Y	@	@	@
STATE	5	#	@	#	#	#	@
POSTAL CODE	5.12	@		@	@	@	@
COUNTY CODE	5.13	@		@	@	@	@
PROVIDER CLASS	7	#			#		
SPECIALITY	7.1	#			#		
HELP FRAME	9.2	#			#		#
PACKAGE	9.4	#	I	#	#	#	#
BUILD	9.6	@	#	#	#	#	#
INSTALL	9.7	@	#	@	#	@	#
ROUTINE	9.8	#	I	#	#	#	#
RACE	10	#		d	d	d	
MARITAL STATUS	11	#		d	d	d	
RELIGION	13	#		d	d	d	
TASKS	14.4	@		^	@	@	@
VOLUME SET	14.5						
UCI ASSOCIATION	14.6						
TASKMAN SITE PARAMETERS	14.7						
TASKMAN SNAPSHOT	14.71	@		@	@	@	@
TASKMAN SNAPSHOT	14.72	@				@	@
TASK SYNC FLAG	14.8	@	@	@	@	@	@
DUPLICATE RECORD	15						
DUPLICATE RESOLUTION	15.1	@	#	@	@	#	
XDR MERGE PROCESS	15.2	@					#
XDR REPOINTED ENTRY	15.3	@					#
MERGE IMAGES	15.4	@	@	@	@	@	@
OPTION	19	#	#	#	#	#	#
AUDIT LOG FOR OPTIONS	19.081	@	#	#	#	#	#
SECURITY KEY	19.1	#	#	#	#	#	#
OPTION SCHEDULING	19.2	@	@	@	@	@	@
MENUMAN QUICK HELP	19.8	@	@	@	@	@	@
NAME COMPONENTS	20	@	#	#	#	#	
HOLIDAY	40.5	#	#	Dd	Dd	Dd	#
SERVICE/SECTION	49	#	D	d	d	d	
PROTOCOL	101	@		#	#	#	
NEW PERSON	200	#	#	#	#	#	
PERSON CLASS	8932.1	@		^	@	^	@
PROGRAM OF STUDY	8932.2	@		^	@	^	@

KERMIT HOLDING	8980		#	#	#		
PKI Digital Signatures	8980.2						
PKI CRL URLS	8980.22	#	#	#	#	#	#
LOCAL KEYWORD	8984.1						
LOCAL SHORTCUT	8984.2	@	#	@	@	@	@
LOCAL SYNONYM	8984.3	@	#	@	@	@	@
LOCAL LOOKUP	8984.4	@	#	@	@	@	@
KERNEL PARAMETERS	8989.2	@	@	@	@	@	@
KERNEL SYSTEM PARAMETERS	8989.3	@	@	@	@	@	@
XTV ROUTINE CHANGES	8991	@	@	@	@	@	@
XTV VERIFICATION PACKAGE	8991.19	@	@	@	@	@	@
XTV GLOBAL CHANGES	8991.2	@	@	@	@	@	@
XQAB ERRORS LOGGED	8991.5						
ALERT	8992	@	@	@	@	@	@
ALERT TRACKING	8992.1						



NOTE: This report was reformatted to fit the display area (smaller font).

15.8 Contingency Planning

All sites should develop a local contingency plan to be used in the event of software/hardware problems in a production (live) environment. The contingency plan *must* identify the procedure for maintaining functionality provided by this software in the event of system outage.

15.9 Official Policies

To protect the security of VistA systems, distribution of this software for use on any other computer system by VistA sites is prohibited. All requests for copies of Kernel for *non*-VistA use should be referred to the VistA site's local Office of Information Field Office (OIFO).

User should refer to [VHA Directive 2012-003, Person Class File Taxonomy](#), which redefines established policy for assigning Person Class codes to providers in the Veterans Health Information Systems and Technology Architecture (VistA) NEW PERSON (#200) file.



REF: For software and documentation disclaimers, see the "[Disclaimers](#)" section.

Glossary

Table 37: Glossary of Terms and Acronyms

Term	Definition
ALPHA TESTING	In VA terminology, Alpha testing is when a VistA test software application is running in a site's account.
AUDIT ACCESS	A user's authorization to mark the information stored in a computer file to be audited.
AUDITING	Monitoring computer usage such as changes to the database and other user activity. Audit data can be logged in a number of VA FileMan and Kernel files.
AUTO MENU	An indication to MenuMan that the current user's menu items should be displayed automatically. When AUTO MENU is <i>not</i> in effect, the user <i>must</i> enter a question mark at the menu's select prompt to see the list of menu items.
BETA TESTING	In VA terminology, Beta testing is when a VistA test software application is running in a Production account.
CAPACITY MANAGEMENT	The process of assessing a system's capacity and evaluating its efficiency relative to workload in an attempt to optimize system performance. Kernel provides several utilities.
CARET	A symbol expressed as ^ (caret). In many M systems, a caret is used as an exiting tool from an option. Also, this symbol is sometimes referred to as the "up-arrow" symbol.
CHECKSUM	A numeric value that is the result of a mathematical computation involving the characters of a routine or file.
CIPHER	A system that arbitrarily represents each character as one or more other characters. (See also: ENCRYPTION .)
CMS	Centers for Medicare & Medicaid Services (related to assigning users to Person Class).
COMMON MENU	Options that are available to all users. Entering two question marks (??) at the menu's select prompt will display any SECONDARY MENU OPTIONS available to the signed-on user along with the common options available to all users.
COMPILED MENU SYSTEM (^XUTL GLOBAL)	Job-specific information that is kept on each CPU so that it is readily available during the user's session. It is stored in the ^XUTL global, which is maintained by the menu system to hold commonly referenced information. The user's place within the menu trees is stored, for example, to enable navigation via menu jumping.

Term	Definition
COMPUTED FIELD	This field takes data from other fields and performs a predetermined mathematical function (e.g., adding two columns together). You do <i>not</i> , however, see the results of the mathematical function on the screen. Only when you are printing or displaying information on the screen do you see the results for this type of field.
DEVICE HANDLER	The Kernel module that provides a mechanism for accessing peripherals and using them in controlled ways (e.g., user access to printers or other output devices).
DIFROM	VA FileMan utility that gathers all software components and changes them into routines (namespacel* routines) so that they can be exported and installed in another VA FileMan environment.
DOUBLE QUOTE (“)	A symbol used in front of a Common option’s menu text or synonym to select it from the Common menu. For example, the five-character string “ TBOX selects the User’s Toolbox Common option.
DR STRING	The set of characters used to define the DR variable when calling VA FileMan. Since a series of parameters may be included within quotes as a literal string, the variable’s definition is often called the DR string. To define the fields within an edit sequence, for example, the developer may specify the fields using a DR string rather than an INPUT template.
DUZ(0)	A local variable that holds the FILE MANAGER ACCESS CODE of the signed-on user.
ENCRYPTION	Scrambling data or messages with a cipher or code so that they are unreadable without a secret key. In some cases, encryption algorithms are one directional; that is, they only encode, and the resulting data cannot be unscrambled (e.g., Access and Verify codes).
FILE ACCESS SECURITY SYSTEM	Formerly known as Part 3 of the Kernel Inits. If the File Access Security conversion has been run, file-level security for VA FileMan files is controlled by Kernel’s File Access Security system, <i>not</i> by File Manager Access codes (i.e., FILE MANAGER ACCESS CODE field).
FORCED QUEUING	A device attribute indicating that the device can only accept queued tasks. If a job is sent for foreground processing, the device will reject it and prompt the user to queue the task instead.
GO-HOME JUMP	A menu jump that returns the user to the primary menu presented at signon. It is specified by entering two carets (^ ^) at the menu’s select prompt. It resembles the Rubber-band Jump but without an option specification after the carets.

Term	Definition
HCFA	Health Care Financing Administration (related to assigning users to Person Class).
HELP PROCESSOR	A Kernel module that provides a system for creating and displaying online documentation. It is integrated within the menu system so that help frames associated with options can be displayed with a standard query at the menu's select prompt.
HOST FILE SERVER (HFS)	A procedure available on layered systems whereby a file on the host system can be identified to receive output. It is implemented by the Device Handler's HFS device type.
INDEX (%INDEX)	A Kernel utility used to verify routines and other M code associated with a software application. Checking is done according to current ANSI MUMPS standards and VistA programming standards. This tool can be invoked through an option or from direct mode (>D ^%INDEX).
INIT	Initialization of a software application. INIT* routines are built by VA FileMan's DIFROM and, when run, recreate a set of files and other software components.
JUMP	In VistA applications, the Jump command allows you to go from a particular field within an option to another field within that same option. You can also Jump from one menu option to another menu option without having to respond to all the prompts in between. To jump, type a caret (^) and then type the name of the field or option you wish to jump to. (See also GO-HOME JUMP , PHANTOM JUMP , RUBBER-BAND JUMP , or UP-ARROW JUMP .)
JUMP START	A logon procedure whereby the user enters the " Access code;Verify code;option " to go immediately to the target option, indicated by its menu text or synonym. The jump syntax can be used to reach an option within the menu trees by entering " Access;Verify;^option ".
KERMIT	A standard file transfer protocol. It is supported by Kernel and can be set up as an alternate editor.
MANAGER ACCOUNT	A UCI that can be referenced by non-manager accounts (e.g., production accounts). Like a library, the MGR UCI holds percent routines and globals (e.g., ^%ZOSF) for shared use by other UCIs.
MENU CYCLE	The process of first visiting a menu option by picking it from a menu's list of choices and then returning to the menu's select prompt. MenuMan keeps track of information (e.g., the user's place in the menu trees) according to the completion of a cycle through the menu system.

Term	Definition
MENU MANAGER	The Kernel module that controls the presentation of user activities (e.g., menu choices or options). Information about each user's menu choices is stored in the Compiled Menu System, the ^XUTL global, for easy and efficient access.
MENU SYSTEM	The overall MenuMan logic as it functions within the Kernel framework.
MENU TEMPLATE	An association of options as pathway specifications to reach one or more final destination options. The final options <i>must</i> be executable activities and <i>not</i> merely menus for the template to function. Any user can define user-specific MENU templates via the corresponding Common option.
MENU TREES	The menu system's hierarchical tree-like structures that can be traversed or navigated, like pathways, to give users easy access to various options.
PAC	Programmer Access Code . An optional user attribute that can function as a second level password into programmer mode.
PART 3 OF THE KERNEL INIT	See FILE ACCESS SECURITY SYSTEM .
PATTERN MATCH	A preset formula used to test strings of data. Refer to your system's M Language Manuals for information on Pattern Match operations.
PHANTOM JUMP	Menu jumping in the background. Used by the menu system to check menu pathway restrictions.
PRIMARY MENUS	The list of options presented at signon. Each user <i>must</i> have a PRIMARY MENU OPTION in order to sign on and reach MenuMan. Users are given primary menus by system administrators. This menu should include most of the computing activities the user will need.
PROGRAMMER ACCESS	Privilege to become a programmer on the system and work outside many of the security controls of Kernel. Accessing programmer mode from Kernel's menus requires having the programmer's at-sign security code, which sets the variable DUZ(0)=@ .
PROTOCOL	An entry in the PROTOCOL (#101) file. Used by the Order Entry/Results Reporting (OE/RR) software to support the ordering of medical tests and other activities. Kernel includes several protocol-type options for enhanced menu displays within the OE/RR software.
QUEUING	Requesting that a job be processed in the background rather than in the foreground within the current session. Kernel's TaskMan module handles the queuing of tasks.

Term	Definition
QUEUING REQUIRED	An option attribute that specifies that the option <i>must</i> be processed by TaskMan (the option can only be queued). The option can be invoked, and the job prepared for processing, but the output can only be generated during the specified time periods.
RESOURCE	A method that enables sequential processing of tasks. The processing is accomplished with a RES device type designed by the application programmer and implemented by system administrators. The process is controlled via the RESOURCE (#3.54) file.
RUBBER-BAND JUMP	A menu jump used to go out to an option and then return, in a bouncing motion. The syntax of the jump is two carets (^ ^) followed by an option's menu text or synonym (e.g., ^ ^Print Option File). If the two carets are <i>not</i> followed by an option specification, the user is returned to the primary menu. (See also: GO-HOME JUMP .)
SCHEDULING OPTIONS	A way of ordering TaskMan to run an option at a designated time with a specified rescheduling frequency (e.g., once per week).
SCROLL/NO SCROLL	The Scroll/No Scroll button (also called Hold Screen) allows the user to “ stop ” (No Scroll) the terminal screen when large amounts of data are displayed too fast to read and “ restart ” (Scroll) when the user wishes to continue.
SECONDARY MENU OPTIONS	Options assigned to individual users to tailor their menu choices. If a user needs a few options in addition to those available on the primary menu, the options can be assigned as secondary options. To facilitate menu jumping, secondary menus should be specific activities, <i>not</i> elaborate and deep menu trees.
SECURE MENU DELEGATION (SMD)	A controlled system whereby menus and keys can be allocated by people other than system administrators (e.g., application coordinators) who have been so authorized. SMD is a part of MenuMan.
SERVER OPTION	In VistA, an entry in the OPTION (#19) file. An automated mail protocol that is activated by sending a message to the server with the “ S.server ” syntax. A server option's activity is specified in the OPTION (#19) file and can be the running of a routine or the placement of data into a file.
SIGNON/SECURITY	The Kernel module that regulates access to the menu system. It performs a number of checks to determine whether access can be permitted at a particular time. A log of signons is maintained.

Term	Definition
SPECIAL QUEUEING	An option attribute indicating that TaskMan should automatically run the option whenever the system reboots.
SPOOLER	An entry in the DEVICE (#3.5) file. It uses the associated operating system's spool facility, whether it's a global, device, or host file. Kernel manages spooling so that the underlying OS mechanism is transparent. In any environment, the same method can be used to send output to the spooler. Kernel will subsequently transfer the text to a global for subsequent despooling (printing).
SYNONYM	In VistA, a field in the OPTION (#19) file. Options can be selected by their menu text or synonym.
TASKMAN	The Kernel module that schedules and processes background tasks (aka Task Manager).
TIMED READ	The amount of time Kernel will wait for a user response to an interactive READ command before starting to halt the process.
UP-ARROW JUMP	In the menu system, entering a caret (^) followed by an option name accomplishes a jump to the target option without needing to take the usual steps through the menu pathway.
Z EDITOR (^%Z)	A Kernel tool used to edit routines or globals. It can be invoked with an option, or from direct mode after loading a routine with >X ^%Z.
ZOSF GLOBAL (^%ZOSF)	The Operating System File—a manager account global distributed with Kernel to provide an interface between VistA software and the underlying operating system. This global is built during Kernel installation when running the manager setup routine (ZTMGRSET). The nodes of the global are filled-in with operating system-specific code to enable interaction with the operating system. Nodes in the ^%ZOSF global can be referenced by application developers so that separate versions of the software need <i>not</i> be written for each operating system.



REF: For a list of commonly used terms and definitions, see the OIT Master Glossary VA Intranet Website.

For a list of commonly used acronyms, see the VA Acronym Lookup Intranet Website.

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