



**VISTA PATCH MONITOR**  
**SUPPLEMENT TO PATCH DESCRIPTION**

Kernel Toolkit Patch XT\*7.3\*98

September 2005

Revised January 2006



# Revision History

## Documentation History

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

Date	Description	Author
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**Table i: Documentation History**

## Patch History

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

## Revision History

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# Orientation



This supplemental documentation is intended for use in conjunction with the release of the VistA Patch Monitor, Kernel Toolkit Patch XT\*7.3\*98. It outlines the details of the work involved in this patch for VA facilities. It is organized into the following major parts:

1. Introduction
2. Package Installation
3. Menu Options
4. Setting Up a New Installation or Recovering Patches
5. Implementation and Maintenance (Technical Manual Information)

## How to Use this Manual

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

- Various symbols are used throughout the documentation to alert the reader to special information. The following table describes these symbols:

Symbol	Description
	Used to inform the reader of general information including references to additional reading material
	<b>Used to caution the reader to take special notice of critical information</b>

**Table ii: Documentation symbol descriptions**

- Descriptive text is presented in a proportional font (as represented by this font). "Snapshots" of computer online displays (i.e., character-based screen captures/dialogs) and computer source code are shown in a non-proportional font.
  - User's responses to online prompts are highlighted in bold typeface.
  - The "<Enter>" found within these snapshots indicates that the user should press the Enter key on their keyboard.
  - Author's comments are displayed in italics or as "callout" boxes.



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

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

- Conventions for displaying TEST data in this document are as follows:
  - The first three digits (prefix) of any Social Security Numbers (SSN) will begin with either "000" or "666."
  - Patient and user names will be formatted as follows: [Application Name]PATIENT,[N] and [Application Name]USER,[N] respectively, where "Application Name" is defined in the Approved Application Abbreviations document, located on the [web site] and where "N" represents the first name as a number spelled out and incremented with each new entry.



The list of Approved Application Abbreviations can be found at the following Web site:

[http://vista.med.va.gov/iss/strategic\\_docs.asp#sop](http://vista.med.va.gov/iss/strategic_docs.asp#sop)

## Who Should Read this Manual?

The intended audience for this documentation is all key stakeholders. The primary stakeholder is Health Systems Implementation Training and Enterprise Support (HSITES). Additional stakeholders include Infrastructure & Security Service (ISS), Development & Infrastructure Support (DaIS), Health Systems Design and Development (HSD&D), all Veterans Health Information Systems and Technology Architecture (VistA) sites, and Veterans Affairs Medical Centers (VAMC). This documentation is written with the assumption that the reader is familiar with the following:

- VistA computing environment
- VA FileMan data structures and terminology
- M programming language

No attempt is made to explain how the overall VistA programming system is integrated and maintained. Such methods and procedures are documented elsewhere. We suggest you look at the various VA home pages on the World Wide Web (WWW) for a general orientation to VistA. For example, go to the Veterans Health Administration (VHA) Office of Information (OI) Health Systems Design & Development (HSD&D) Home Page at the following web address:

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

## How to Obtain Technical Information Online

Exported file, routine, and global documentation can be generated using Kernel, MailMan, and VA FileMan utilities.



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

## Help at Prompts

VistA software has online help and commonly used system default prompts. In character-based mode, users are encouraged to enter question marks at any response prompt. Help messages are often provided showing lists of acceptable responses or format requirements. 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 software.

To retrieve online documentation in the form of Help in VistA character-based software:

- Enter a single question mark ("?") at a field/prompt to obtain a brief description. If a field is a pointer, entering one question mark ("?") displays the HELP PROMPT field contents and a list of choices, if the list is short. If the list is long, the user will be asked if the entire list should be displayed. A YES response will invoke the display. The display can be given a starting point by prefacing the starting point with an up-arrow ("^") as a response. For example, **^M** would start an alphabetic listing at the letter M instead of the letter A, while **^127** would start any listing at the 127th entry.
- Enter two question marks ("??") at a field/prompt for a more detailed description. Also, if a field is a pointer, entering two question marks displays the HELP PROMPT field contents and the list of choices.
- Enter three question marks ("???" ) at a field/prompt to invoke any additional Help text that may be stored in Help Frames.



Help messages may not be available for every prompt. If you enter "?" or "???" at a prompt and it does not have a Help message, the system will simply repeat the prompt.

## Obtaining Data Dictionary Listings

Technical information about files and their associated fields is stored in data dictionaries. You can use the List File Attributes option on the Data Dictionary Utilities submenu in VA FileMan to print formatted data dictionaries.



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

## VistA Documentation

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

<http://www.adobe.com/>



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

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

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

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

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

- **Preferred Method**      **download.vista.med.va.gov**
- Albany OIFO              ftp.fo-albany.med.va.gov
- Hines OIFO                ftp.fo-hines.med.va.gov
- Salt Lake City OIFO      ftp.fo-slc.med.va.gov



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



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

# Chapter 1: Introduction

The VistA Patch Monitor is being released in Kernel Toolkit Patch XT\*7.3\*98. This package is designed to assist package support and management personnel in keeping up with VistA patch requirements. It monitors patches as they arrive in the VistA MailMan, records pertinent data and then monitors them on a daily basis through automated processing.

This package will track only patches that are released from the National Patch Module on Forum. It will not track Class III patches, test patches or hand-entered patches from other sources due to its link with the Kernel Installation and Distribution System (KIDS) INSTALL file (#9.7).

Package support and management personnel have a various reporting programs they may use on a daily basis, as well as automatic daily options which report anything from past due to uninstalled patches.

## Package Operation

Patches are usually sent to the **G.PATCHES** mail group, which should be standard at all sites. If this mail group does not exist at a site, any mail group that receives national patches may be used.

In this mail group, a server option, **S.XTPM PATCH SERVER**, is added as a "remote user." When Mailman delivers the message, the server option receives the message, examines it line by line and extracts certain information. This message data then is stored in the **PATCH MONITOR** file (#9.9).

Upon arrival, a patch message is examined to see if it contains the text "\*\*\*INSTALL NAME\*\*" as a line in the message. If it does not, then the message is flagged as "non-KIDS" when first entered. This does not mean it is not really a KIDS patch but rather that there is no KIDS install included in the patch message. This may be because of one of the following two things:

1. The patch may require a host file to be downloaded and installed into the distribution global
2. The patch may not yet be loaded into the distribution global from the MailMan message

At night, a TaskMan option, **XTPM NIGHTLY PATCH MONITOR**, runs after midnight, reviews the **PATCH MONITOR** file (#9.9) and takes certain actions:

1. If any patch is not installed and the current date is not past the compliance date, nothing is done.
2. If the job finds a matching entry in the **INSTALL** file (#9.7), the patch type is set to be a "KIDS" patch. Otherwise, it continues to remain a non-KIDS patch until such a record is found.
3. If the patch is a KIDS patch and there is no installation date in the **INSTALL** file (#9.7) and the current date is past the compliance date, it is added to the mail bulletin that reports all past due patches to the **XTPM PATCH MONITOR** mail group.
4. If the patch is a non-KIDS patch and there is no completion date in the **PATCH MONITOR** file (#9.9) and the current date is past the compliance date, it also is added to the mail bulletin that reports all past due patches to the **XTPM PATCH MONITOR** mail group.
5. Any patch record, whether KIDS or non-KIDS, that has either a completed installation record or a completion date, respectively, will be purged from the **PATCH MONITOR** file (#9.9) if it is so designated in the **PATCH MONITOR PARAMETER** file (#9.95).



If completed patches are not set to be deleted, they will accumulate up to the number of days designated in the PATCH MONITOR PARAMETER file (#9.95), or 30 days if no limit is set. See the PATCH MONITOR PARAMETER file (#9.95) setup for further explanation about data retention and purging of data.

## A Note About Test Patches

There are many sites that regularly participate as test sites and consequently they receive many test patches. The VistA Patch Monitor totally ignores these types of patches and they are not entered into the PATCH MONITOR file (#9.9). However, because they are actual KIDS installs, they can cause problems with date calculations from the INSTALL when the actual patch comes in. Because of this, INSTALL file (#9.7) records for test and COMPLETED/UNRELEASED patches are also ignored for reports, editing and inquiries. For example, if a released patch comes in and it is the fifth installation in the INSTALL file (#9.7) (due to multiple test releases) these previous installation records are ignored and the patch truly appears as uninstalled until installed with the true released KIDS patch.



## Chapter 2: Package Installation

Kernel Toolkit Patch XT\*7.3\*98 is distributed as a Kernel Installation and Distribution (KIDS) file in a regular MailMan (PackMan) message. The installation instructions for Patch XT\*7.3\*98 are organized and described in this chapter as follows:

- I. Pre-Installation Procedure—Actions to be taken before sites install the software.
- II. Installation Procedure—Basic step-by-step instructions for installing the software and sample installation screen capture.
- III. Post-Installation Procedure—Actions to be taken after sites install the software.



Detailed installation instructions can be found in the Kernel Toolkit Patch XT\*7.3\*98 patch description on FORUM.

### Pre-Installation Procedure

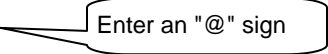
If your site has previously installed the VistA Patch Monitor Class III software, the following steps must be taken into consideration before installing Patch XT\*7.3\*98.

**Step 1.** If the options listed below are installed at your site, use VA TaskMan to unschedule them as shown in Figure 2-1.

- [AWB NIGHTLY PATCH MONITOR]
- [AWB UNINSTALLED PATCH BULLETIN]

```
Select Taskman Management Option: Schedule/Unschedule Options

Select OPTION to schedule or reschedule: AWB NIGHTLY PATCH MONITOR <Enter>
Nightly Patch Monitor
...OK? Yes// <Enter> (Yes)
(R)
                                Edit Option Schedule

Option Name: @ 
Menu Text: Nightly Patch Monitor                                TASK ID: 626046
-----

QUEUED TO RUN AT WHAT TIME: AUG 23,2005@24:00

DEVICE FOR QUEUED JOB OUTPUT:

QUEUED TO RUN ON VOLUME SET:

RESCHEDULING FREQUENCY: 1D

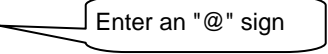
TASK PARAMETERS:

SPECIAL QUEUEING:

-----

WARNING: DELETIONS ARE DONE IMMEDIATELY!
        (EXITING WITHOUT SAVING WILL NOT RESTORE DELETED RECORDS.)
Are you sure you want to delete this entire record (Y/N)? y

Select OPTION to schedule or reschedule: UNINSTALLED PATCH BULLETIN <Enter>
Uninstalled Patch Bulletin
...OK? Yes// <Enter> (Yes)
(R)
                                Edit Option Schedule

Option Name: @ 
Menu Text: Uninstalled Patch Bulletin                                TASK ID: 626047
-----

QUEUED TO RUN AT WHAT TIME: AUG 23,2005@24:00

DEVICE FOR QUEUED JOB OUTPUT:

QUEUED TO RUN ON VOLUME SET:

RESCHEDULING FREQUENCY: 1D

TASK PARAMETERS:

SPECIAL QUEUEING:

-----

WARNING: DELETIONS ARE DONE IMMEDIATELY!
        (EXITING WITHOUT SAVING WILL NOT RESTORE DELETED RECORDS.)
Are you sure you want to delete this entire record (Y/N)? y
```

**Figure 2-1: Unschedule [AWB NIGHTLY PATCH MONITOR] and [AWB UNINSTALLED PATCH BULLETIN]**

**Step 2.** The pre-install routine MERGE^XT73P98 copies data from the existing Class III VistA Patch Monitor V. 2.0 files to the new Class I files, as shown in Table 2-1.

Class III File Name and Number	Class I File Name and Number
PATCH MONITOR #177100.6	PATCH MONITOR #9.9
PATCH MONITOR PARAMETER #177100.7	PATCH MONITOR PARAMETER 9.95

**Table 2-1: Moving Class III data into Class I files**



The post-install routine EN^XT73P98 removes all old files, options, and routines originally exported with the VistA Patch Monitor Class III software.



For more information on the post-installation for Patch XT\*7.3\*98, see the section titled: "Post-Installation Procedure" in this documentation.

## Installation Procedure

These are the steps to install and use this package. They assume that the installer is familiar with a KIDS installation.

- Step 1.** Unload the PackMan mail message into the distribution global.
- Step 2.** Use option 2 to verify the checksums in the package.
- Step 3.** There will be no need to back up previous VistA Patch Monitor packages.
- Step 4.** Use option 6 to install the package.

Figure 2-2 shows a sample installation of Patch XT\*7.3\*98, the VistA PATCH MONITOR.

```
Select Installation Option: 6 <Enter> Install Package(s)
Select INSTALL NAME: XT*7.3*98 <Enter> Loaded from Distribution 2/29/04@16:53:34
=> XT*7.3*98

This Distribution was loaded on Feb 29, 2004@16:53:34 with header of XT*7.3*98
It consisted of the following Install(s):
XT*7.3*98
Checking Install for Package XT*7.3*98

Install Questions for XT*7.3*98

Incoming Files:

    9.9  PATCH MONITOR

    9.95 PATCH MONITOR PARAMETER

Incoming Mail Groups:

Enter the Coordinator for Mail Group 'XTPM PATCH MONITOR': KTUSER, ONE
KO      IRM      COMPUTER SPECIALIST

Enter the Coordinator for Mail Group 'XTPM PATCH MONITOR USER': KTUSER, ONE
KO      IRM      COMPUTER SPECIALIST

Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// Y <Enter> YES

Want KIDS to INHIBIT LOGONS during the install? YES// N NO
Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// N <Enter>
NO

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: <Enter> HOME// <Enter>
```

If you want to print the installation, enter a valid output device at the prompt.

Figure 2-2: Kernel Toolkit Patch XT\*7.3\*98 installation example

## Post-Installation Procedure



The Kernel Toolkit Patch XT\*7.3\*98 post init routine XT73P98 deletes all existing Class III VistA Patch Monitor Version 2.0 files (i.e., Files #177100.6 and 177100.7), options, and routines in the AWB namespace. Patch XT\*7.3\*98 exports and installs all options and files comprising the Class I version of the VistA Patch Monitor in the XTPM namespace.

Once the installation is finished, perform the following tasks in the following order:

- Step 1.** Give the security key **XTPM PATCH MONITOR MGR** to the person designated as package manager. This key is necessary to schedule the Nightly Patch Monitor option because if the person who schedules the option does not have it, the option will not run.

- Step 2.** Give the **XTPM PATCH MONITOR MAIN MENU** to the persons designated as patch support personnel.
- Step 3.** If **S.XTPM PATCH SERVER@your\_facility\_domain** exists as a remote member of the **PATCHES** mail group, edit **S.XTPM PATCH SERVER@your\_facility\_domain** to **S.XTPM PATCH SERVER@your\_facility\_domain**. Or, add **S.XTPM PATCH SERVER@your\_facility\_domain** as a remote member of the **G.PATCHES** mail group. If there is another group at your site that receives patches, you may substitute that group name. If this is not added correctly, no patches will be captured and entered into the **PATCH MONITOR** file (#9.9). For example, use VA FileManager to add the server option as a remote recipient in the **G.PATCHES** mail group, Figure 2-3. This is Field #12 in the **MAIL GROUP** file (#3.8).



**It is recommended that sites only use one central mail group for patches.**

```
Select VA FileMan Option:  Enter or Edit File Entries

INPUT TO WHAT FILE: MAIL GROUP//
EDIT WHICH FIELD: ALL// 12 <Enter> MEMBERS - REMOTE  (multiple)
  EDIT WHICH MEMBERS - REMOTE SUB-FIELD: ALL//
THEN EDIT FIELD:

Select MAIL GROUP NAME:  PATCHES
Select REMOTE MEMBER:  S.XTPM PATCH SERVER@DUBLIN.MED.VA.GOV
```

**Figure 2-3: Add server option as a remote recipient in the G.PATCHES mail group**

- Step 4.** Optionally, follow the instructions in Figure 2-4 to delete any existing mail groups in the **AWB** namespace.

```
Select MAIL GROUP NAME:  AWB PATCH MONITOR USER
NAME:  AWB PATCH MONITOR USER  Replace @
  SURE YOU WANT TO DELETE THE ENTIRE 'AWB PATCH MONITOR USER' MAIL GROUP?  Y
<Enter> (Yes)
SINCE THE DELETED ENTRY MAY HAVE BEEN 'POINTED TO'
BY ENTRIES IN THE 'BULLETIN' FILE, ETC.,
DO YOU WANT THOSE POINTERS UPDATED (WHICH COULD TAKE QUITE A WHILE)? No// <Enter>
(No)

Select MAIL GROUP NAME:  AWB PATCH MONITOR
NAME:  AWB PATCH MONITOR// @
  SURE YOU WANT TO DELETE THE ENTIRE 'AWB PATCH MONITOR' MAIL GROUP?  Y <Enter>
(Yes)
SINCE THE DELETED ENTRY MAY HAVE BEEN 'POINTED TO'
BY ENTRIES IN THE 'BULLETIN' FILE, ETC.,
DO YOU WANT THOSE POINTERS UPDATED (WHICH COULD TAKE QUITE A WHILE)? No// <Enter>
(No)
```

**Figure 2-4: Delete mail groups in the AWB namespace**

**Step 5.** Set up the following two mail groups that come with this package:

- a. **XTPM PATCH MONITOR**—This mail group is for management personnel (Veterans Integrated Service Network [VISN], Chief Information Offices [CIOs], Information Resource Management [IRM], Risk Management chiefs etc.) to receive the delinquent patch bulletin.
- b. **XTPM PATCH MONITOR USER**—This mail group is for package management personnel to receive the daily uninstalled patch bulletin. The average package support person and any VistA managers or supervisors would be included in this mail group.

**Step 6.** Set up your site in the PATCH MONITOR PARAMETER file (#9.95) using the information shown in Table 2-2.


Prompt	Description
"Select PATCH MONITOR PARAMETER SITE NAME:"	Enter the name of your facility. This is a free-text entry of up to 35 characters.
"Select MAIL GROUPS:"	Enter the mail group or groups that will receive the daily monitor bulletins about uninstalled patches. These are <i>not</i> the groups to receive the delinquent patch bulletins. This field points to the MAIL GROUP file (#3.8) and all groups entered here must already exist in the MAIL GROUP file (#3.8).
"NUMBER OF DAYS TO KEEP DATA:"	Enter the number of days to keep completed patch data on file. This field is overridden by the field "Delete installed patches." If the field is "Delete Installed Patches" is YES then any number entered in this field is ignored. If the field "Delete Installed Patches" is NO then data will retained for the amount of days entered here. If no value is entered, 30 days are automatically kept. See note below explaining data retention.
"DELETE INSTALLED PATCHES?:"	Enter Y to allow the nightly job to delete all installed patches if they are completed or N to retain them the number of days specified in the field "Number of days to keep data." This field overrides the "Number of days to keep data" field. If this field is NO the number of days of patches are kept is determined by the field "Number of Days to Keep Data," or 30 days is kept if no there is no entry in the field. See note as follows.

**Table 2-2: Site setup in the PATCH MONITOR PARAMETER file (#9.95)**

## Explanatory Note About Data Retention

It is entirely up to a site whether or not patch installation data is retained for statistical reporting purposes. A site may wish to retain data and have a full compliment of reporting for statistics on past periods or it may wish to simply keep up with the current patching scenario and only make sure patches are installed on a timely basis and nothing more.

The site should weigh this decision carefully so as not to delete data unless it realizes the ramifications of it.

 You may go to item 6 unless you wish to set up Reporting Groups at this time.

Prompt (continued...)	Description (continued...)
"Select REPORTING GROUP:"	Enter a free text name of a reporting group.

**Table 2-3: Site setup in the PATCH MONITOR PARAMETER file (#9.95) (continued...)**

Figure 2-5 shows an example of a reporting group that has already been set up:


```
REPORTING GROUP: KERNEL// Name of group
Select NAME SPACE: XT Namespace to report.
Are you adding 'TOOLKIT' as a new NAME SPACE (the 2ND for this REPORTING GROUP)?
No// YES
```

**Figure 2-5: Example of a reporting group that has already been set up**

You may add as many name spaces as you wish. It should be noted that this field is a “free text” pointer to the PACKAGE file (#9.4) so the packages must exist in that file or they cannot be added. Any mixture of name spaces may be added.

**Step 7.** Use VA TaskMan to set up the following options with the following parameters:

- XTPM NIGHTLY PATCH MONITOR:
  - Time: 05:00
  - Rescheduling Frequency: 1D

 The person scheduling the XTPM NIGHTLY PATCH MONITOR option must have the XTPM PATCH MONITOR MGR security key or the option will not run. This is the intended function.

- XTPM UNINSTALLED PATCH BULLETI:

- Time: 08:00
- Rescheduling Frequency: D@0800 (weekdays at 8 AM)

An example of setting up the TaskMan parameters for both options is shown in Figure 2-6.

```
Option Name: XTPM NIGHTLY PATCH MONITOR
Menu Text: Nightly Patch Monitor                                TASK ID:
-----
QUEUED TO RUN AT WHAT TIME: FEB 29, 2004 05:00
DEVICE FOR QUEUED JOB OUTPUT:
QUEUED TO RUN ON VOLUME SET:
RESCHEDULING FREQUENCY: 1D
TASK PARAMETERS:
SPECIAL QUEUEING:
=====
Option Name: XTPM UNINSTALLED PATCH BULLETI
Menu Text: Uninstalled Patch Bulletin                            TASK ID:
-----
QUEUED TO RUN AT WHAT TIME: FEB 29, 2004 08:00
DEVICE FOR QUEUED JOB OUTPUT:
QUEUED TO RUN ON VOLUME SET:
RESCHEDULING FREQUENCY: D@0800
TASK PARAMETERS:
SPECIAL QUEUEING:
```

**Figure 2-6: Set up scheduling frequency for XTPM NIGHTLY PATCH MONITOR and XTPM UNINSTALLED PATCH BULLETI**



The following is a sample Uninstalled Patch Report MailMan message, which is the bulletin sent to the site listing what patches are uninstalled.

```

Subj: Uninstalled Patch Report for TEST.CHEYENNE.MED.VA.GOV for JAN 11,[#616]
01/11/06@08:54 16 lines
From: POSTMASTER In 'IN' basket. Page 1 *New*
-----

The following patches are uninstalled at this site:

Patch #      Subject                Priority      Recpt Date    Compliance Date
-----      -
OR*3*50      Unsigned Orders Sear    Mandatory    JAN 3,2006    JAN 31,2006
XU*8.0*391   Limit %ZIS page leng    Mandatory    JAN 9,2006    JAN 11,2006
XU*8.0*393   HF routine checksums    Mandatory    JAN 3,2006    JAN 31,2006

Total: 3
    
```

**Figure 2-7: Sample Uninstalled Patch Report MailMan message**

```

Subj: Patch Monitor Report for TROY ISC SUPPORT ACCOUNT for JAN 13,2006
[#184380] 01/13/06@05:00 4 lines
From: POSTMASTER In 'WASTE' basket. Page 1
-----

No Delinquent Patches were found.

Enter message action (in WASTE basket): Ignore//
    
```

**Figure 2-8: Sample "No Delinquent Patches were found" MailMan message**



# Chapter 3: Menu Options

The VistA Patch Monitor is comprised of sixteen menu options, organized into the following four menus:

## **Patch Monitor Main Menu [XTPM PATCH MONITOR MAIN MENU]**

- 1 Patch Processing ... [XTPM PATCH PROCESSING]
- 2 Patch Report ... [XTPM PATCH REPORTS]
- 3 Patch Monitor Management ... [XTPM PATCH MANAGEMENT]

## **Patch Processing [XTPM PATCH PROCESSING]**

- 1 Patch Inquiry [XTPM PATCH INQUIRY]
- 2 Edit Patch Information [XTPM EDIT PATCH]
- 3 Mark a Non-KIDS Patch as Complete [XTPM COMPLETE A NON-KIDS PATCH]

## **Patch Reports [XTPM PATCH REPORTS]**

- 1 Complete Patch Installation History [XTPM COMPLETE PATCH HISTORY]
- 2 Uninstalled Patches by Compliance Date [XTPM UNINSTALLED BY COMPLIANCE]
- 3 Uninstalled Patch Listing - Alphabetical [XTPM UNINSTALLED PATCHES]
- 4 Patches Due in the Next Seven Days [XTPM PATCHES DUE NEXT 7 DAYS]
- 5 Past Due Patch Report [XTPM PAST DUE PATCH REPORT]
- 6 Patch Statistics by Reporting Group [XTPM PATCH STATISTICS]
- 7 Patch Statistics by Compliance Date [XTPM PATCH STATS BY COMPLIANCE]

## **Patch Monitor Management [XTPM PATCH MANAGEMENT]**

- 1 Edit the Patch Monitor Parameter File [XTPM EDIT PATCH MONITOR PARAMS]
- 2 Rerun the Nightly Patch Monitor [XTPM RERUN NIGHTLY]  
\*\*> Locked with XTPM PATCH MONITOR MGR

Patch Processing	[XTPM PATCH PROCESSING]
------------------	-------------------------

The Patch Processing menu holds all options necessary to do additional patch processing.

```

Select Patch Monitor Main Menu Option: 1 <Enter> Patch Processing

  1      Patch Inquiry
  2      Edit Patch Information
  3      Mark a Non-Kids Patch as Complete

Select Patch Processing Option:
    
```

**Figure 3-1: Patch Processing menu**

Patch Inquiry	[XTPM PATCH INQUIRY]
---------------	----------------------

This option provides a view of all information on a patch record, which is all the information from the PATCH MONITOR file (#9.9) , including the computed fields:

- DATE INSTALLED (#9)
- INSTALLED BY (#10)

Table 3-1 lists the prompt used for interacting with this option along with its description.

Prompt	Description
"Enter Patch Name:"	Enter the name of the patch. This is usually same as the install name. The patch name may be ONC*1*23 but the install name may be ONC*1.0*23.

**Table 3-1: Patch Inquiry option—prompt and description**

Figure 3-2 shows an example of the output from the Patch Inquiry option. The inquiry is sent only to the screen.

```

Patch Inquiry for DUBLIN, GA.

-----
PATCH NAME: ONC*2.11*38                DATE OF RECEIPT: FEB 24, 2004
PRIORITY: MANDATORY                    PARENT PACKAGE: ONC - ONCOLOGY
SEQUENCE NUMBER: 38                   PACKAGE VERSION: 2.11
PATCH SUBJECT: DATE OF FIRST CONTACT  INSTALL NAME: ONC*2.11*38
COMPLIANCE DATE: MAR 25, 2004
DATE INSTALLED (c): FEB 28,2004       INSTALLED BY (c): MARTIN,THOMAS
-----
    
```

**Figure 3-2: Patch Inquiry option—output**

<b>Edit Patch Information</b>	<b>[XTPM EDIT PATCH]</b>
-------------------------------	--------------------------

This option allows you to edit the fields of a patch record that were extracted from the mail message. These are items that may need to be changed for various reasons.

Table 3-2 lists the prompts used for interacting with this option along with a description of each.

<b>Prompt</b>	<b>Description</b>
"Select PATCH MONITOR PATCH NAME:"	Enter the patch name to edit.
"COMPLIANCE DATE:"	Enter the compliance date assigned to the patch.  NOTE: This date would normally be changed only if the compliance date was changed nationally.
"NON-KIDS PATCH?"	Enter 1 or Y if it is a non-KIDS patch or zero or N if not.  NOTE: This field is not normally changed unless indicated for some type of problem.  If it is really a KIDS patch, and the field is already set to YES, you may enter an @ to remove the YES.
"DATE COMPLETED"	This is the date a NON-KIDS patch was completed. This date affects reports only on non-KIDS patches. If inadvertently changed on a KIDS patch, there will be no effects. This field will only be asked if the field "NON-KIDS PATCH?" is set to YES.
"NON-KIDS PATCH COMPLETED BY"	This is the name of the person who completed the non-KIDS patch. When no value is present, the automatic default is the user who is performing the edits.  NOTE: It should be noted that if the field NON-KIDS PATCH is YES and that answer is deleted by entering an @ sign, then the fields DATE COMPLETED and NON-KIDS PATCH COMPLETED BY will be deleted automatically. This is the way it was intended to work.

**Table 3-2: Edit Patch Information option—prompts and description of each**

<b>Mark a Non-Kids Patch as Complete</b>	<b>[XTPM COMPLETE A NON-KIDS PATCH]</b>
--	---

Using this option will allow you to complete a non-KIDS patch. KIDS patches have a computed field link to the INSTALL file (#9.7) but non-KIDS patches will never have an install record because they do not get processed in the usual manner a KIDS patch is processed. This must be done manually by entering a completion date. After this date is entered, all reports will reflect this date.

Table 3-3 lists the prompts used for interacting with this option along with a description of each.

<b>Prompt</b>	<b>Description</b>
"Select PATCH MONITOR PATCH NAME:"	Enter the install name of the patch.
"NON-KIDS INSTALL DATE:"	Enter the date the patch was completed by hand. Time is not permitted.

**Table 3-3: Mark a Non-KIDS Patch as Complete option—prompts and description of each**

Patch Reports	[XTPM PATCH REPORTS]
---------------	----------------------

This menu has the reports that comprise a large part of the VistA Patch Monitor.

```
Select Patch Monitor Main Menu Option: 2 <Enter> Patch Reports

 1      Complete Patch Installation History
 2      Uninstalled Patches by Compliance Date
 3      Uninstalled Patch Listing - Alphabetical
 4      Patches Due in the Next Seven Days
 5      Past Due Patch Report
 6      Patch Statistics by Reporting Group
 7      Patch Statistics by Compliance Date

Select Patch Reports Option:
```

**Figure 3-3: Patch Reports menu**

Complete Patch Installation History	[XTPM COMPLETE PATCH HISTORY]
-------------------------------------	-------------------------------

This option gives a report of all patches currently in the PATCH MONITOR file (#9.9) and their associated installation history. The output is grouped by compliance date.

Table 3-4 lists the prompt used for interacting with this option along with its description.

Prompt	Description
"DEVICE: HOME//"	Enter the device for the output of the report. It may be either to any printer or to the user's workstation screen.

**Table 3-4: Complete Patch Installation History option—prompt and description**

Menu Options

```

COMPLETE PATCH INSTALLATION HISTORY                FEB 29,2004  15:59  PAGE 1
COMPLIANCE  DATE
DATE        INSTALLED  PATCH NAME      SUBJECT
-----
12/07/03    12/02/03    PSO*7*153      TPB PROJECT - HL7 FIX/FAX #/PROVIDER ERR
12/07/03    12/04/03    SD*5.3*318     Transitional Pharmacy Benefit Deferred A
12/11/03    12/11/03    PRS*4*88       DECEMBER 26,2003 HOLIDAY
12/15/03    12/10/03    OR*3*206       CPRS GUI Version 22.16
12/17/03    12/02/03    PSX*2*49       NTE|5 SEGMENTS CORRECTION
12/18/03    12/17/03    PRS*4*86       SR 03-634 FLEXIBLE SPENDING ACCOUNTS
12/19/03    12/04/03    EAS*1*40       LTC COPAYMENT PHASE IV
. . . . .
. . . . .
. . . . .
02/04/03    02/02/04    IB*2*215       OIG/IVM 60-DAY BILL DROP
03/20/04    02/26/04    OR*3*208       ADD PCE OUTPATIENT ENCOUNTERS TO DOD REP
03/20/04    02/24/04    PSD*3*44       MODIFICATION OF 'DR' STRING IN ROUTINE P
03/20/04    02/24/04    TIU*1*176      TIU E-SIG DISPLAY ENHANCEMENTS
-----
COUNT                      126

(Note: This only a partial report display, due to the actual length of the
report.)
    
```

**Figure 3-4: Complete Patch Installation History option—output**

<b>Uninstalled Patches by Compliance Date</b>	<b>[XTPM UNINSTALLED BY COMPLIANCE]</b>
---	---

This option will give a total view of all uninstalled patches, listed and grouped by compliance date.

Table 3-5 lists the prompt used for interacting with this option along with its description.

Prompt	Description
"DEVICE://"	Enter the output device to receive the output. This may be any printer or the workstation screen.

**Table 3-5: Uninstalled Patches by Compliance Date option—prompt and description**



```

UNINSTALLED PATCHES BY COMPLIANCE DATE          FEB 29,2004  15:49  PAGE 1
COMPLIANCE
DATE          PATCH NUMBER          DATE RCV  PATCH SUBJECT
-----
03/08/04     RMIM*1*2          02/06/04  FIX FOR COMPLETING CONSULTS AND MULTIPLE
03/08/04     RMIM*1*1          10/08/03  FIM GUI UPDATE 1
03/12/04     HL*1.6*84         02/10/04  CACHE/VMS MULTILISTENER & REMOVE TASK FR
03/13/04     IB*2*252          02/11/04  MODIFICATIONS TO IB*2*184
03/13/04     IVM*2*93          02/11/04  INTERIM ADDRESS ENHANCEMENTS FOLLOW UP
03/15/04     DG*5.3*560        02/13/04  INTERIM ADDRESS ENHANCEMENTS FOLLOW UP
03/19/04     LA*5.2*69         02/17/04  Lab Utility API's
03/20/04     EAS*1*44          02/18/04  1010EZ WEB PROCESSING VET SELECTION
03/22/04     HL*1.6*109        02/20/04  Improve Performance and Monitoring of HL
03/26/04     SD*5.3*324        02/24/04  UNDEF VAR ERROR IN TREND OF FACILITIES R
04/10/04     OR*3*176          02/26/04  FILE UPDATES FOR NON-VA MEDS PROJECT
COUNT          11
    
```

**Figure 3-5: Uninstalled Patches by Compliance Date option—output**

<b>Uninstalled Patch Listing - Alphabetical</b>	<b>[XTPM UNINSTALLED PATCHES]</b>
---	-----------------------------------

This option will output a complete listing of all uninstalled patches in alphabetical order by patch name.

Table 3-6 lists the prompt used for interacting with this option along with its description.

Prompt	Description
"DEVICE://"	Enter the output device to receive the output. This may be any printer or the workstation screen.

**Table 3-6: Uninstalled Patch Listing - Alphabetical option—prompt and description**

Uninstalled Patch Report for DUBLIN, GA. for FEB 29,2004				Page: 1
Patch #	Subject	Priority	Recpt Date	Compliance Date
-----	-----	-----	-----	-----
DG*5.3*560	INTERIM ADDRESS ENHA	Mandatory	FEB 13,2004	MAR 15,2004
EAS*1*44	1010EZ WEB PROCESSIN	Mandatory	FEB 18,2004	MAR 20,2004
HL*1.6*109	Improve Performance	Mandatory	FEB 20,2004	MAR 22,2004
HL*1.6*84	CACHE/VMS MULTILISTE	Mandatory	FEB 10,2004	MAR 12,2004
IB*2*252	MODIFICATIONS TO IB*	Mandatory	FEB 11,2004	MAR 13,2004
IVM*2*93	INTERIM ADDRESS ENHA	Mandatory	FEB 11,2004	MAR 13,2004
LA*5.2*69	Lab Utility API's	Mandatory	FEB 17,2004	MAR 19,2004
OR*3*176	FILE UPDATES FOR NON	Mandatory	FEB 26,2004	APR 10,2004
SD*5.3*324	UNDEF VAR ERROR IN T	Mandatory	FEB 24,2004	MAR 26,2004
Total: 9				

**Figure 3-6: Uninstalled Patch Listing - Alphabetical option—output**

<b>Patches Due in the Next Seven Days</b>	<b>[XTPM PATCHES DUE NEXT 7 DAYS]</b>
---	---------------------------------------

This option will allow package support personnel to look all patches, which will be due within the next seven days.

Table 3-7 lists the prompt used for interacting with this option along with its description.

Prompt	Description
"Device://"	Enter the output device to receive the output. This may be any printer or the workstation screen.

**Table 3-7: Patches Due in the Next Seven Days option—prompt and description**

```

UNINSTALLED PATCHES DUE IN THE NEXT SEVEN DAYS
                                FEB 29,2004  15:44   PAGE 1
COMPLIANCE
DATE          PATCH NUMBER      DATE RCV  PATCH SUBJECT
-----
03/03/04     XU*8.0*504           02/03/04  Test patch entry

(Note: This is not a real patch)
    
```

**Figure 3-7: Patches Due in the Next Seven Days option—output**

<b>Past Due Patch Report</b>	<b>[XTPM PAST DUE PATCH REPORT]</b>
------------------------------	-------------------------------------

This option gives a report of all patches that are past the assigned compliance date.

Table 3-8 lists the prompt used for interacting with this option along with its description.

Prompt	Description
"DEVICE: HOME//"	Enter the device for the output of the report. It may be either to any printer or to the user's workstation screen.

**Table 3-8: Past Due Patch Report option—prompt and description**

```

Past Due Patch Report for DUBLIN, GA. for MAR 04,2004
                                                Page: 1

Patch #      Subject                Priority    Recpt Date    Compliance
-----      -
LA*5.2*369   Lab Program API's          Mandatory   FEB 17,2004   MAR 1,2004

(Note: This is not a real patch)
    
```

**Figure 3-8: Past Due Patch Report option—output**

<b>Patch Statistics by Reporting Group</b>	<b>[XTPM PATCH STATISTICS]</b>
--	--------------------------------

The Patch Statistics program reports installation statistics for any group of packages previously set up in the PATCH MONITOR PARAMETER file (#9.95) as reporting groups. The displayed information is grouped by package namespace.

Table 3-9 lists the prompts used for interacting with this option along with a description of each.

<b>Prompt</b>	<b>Description</b>
"Select REPORTING GROUP:"	Enter the name of the group you wish to report. You may use a ? to show what groups are currently defined.
"Do you want a new form/screen between REPORTING GROUPS? Yes/"	Enter Yes to have each group reported on a separate screen (workstations) or page (printers). Enter No to have them print one after the other, with no spacing in between.
"Enter BEGINNING Compliance date:"	Enter the beginning compliance date to report.
"and ENDING Compliance date:"	Enter the ending compliance date to report.
"DEVICE: HOME/"	Enter the output device, either a workstation screen or a printer.

**Table 3-9: Patch Statistics By Reporting Group option—prompts and description of each**

See output example on the next page.

## Patch Statistics Output example:

Compliance Date	Patch Number	Release Date	Install Date	Priority	# Days Delinquent
-----					
Report group: KERNEL					
FEB 29,2004		Patch Statistical Report for DUBLIN, GA.			
		Date range: FEB 1,2004 to FEB 29,2004			
					Page: 1
FEB 27,2004	DI*22*123	JAN 27,2004	JAN 30,2004	Mandatory	
FEB 12,2004	XT*7.3*75	JAN 12,2004	JAN 14,2004	Mandatory	
FEB 22,2004	XT*7.3*68	JAN 22,2004	JAN 29,2004	Mandatory	
FEB 11,2004	XU*8*335	FEB 9,2004	FEB 11,2004	Emergency	
FEB 13,2004	XU*8*270	JAN 13,2004	JAN 14,2004	Mandatory	
FEB 13,2004	XU*8*294	JAN 13,2004	JAN 14,2004	Mandatory	
Totals patches received for date range: 6					
Total patches installed past compliance date: 0					
Delinquent patch % : 0.00 %					
Compliance % : 100.00 %					

Figure 3-9: Patch Statistics By Reporting Group option—output

<b>Patch Statistics by Compliance Date</b>	<b>[XTPM PATCH STATS BY COMPLIANCE]</b>
--	---

The statistics program reports installation statistics for any compliance date range. It is similar to the previous option that reported by report group. There is no special grouping on this report but by compliance date.

Table 3-10 lists the prompts used for interacting with this option along with a description of each.

Prompt	Description
"Enter BEGINNING Compliance date:"	Enter the beginning compliance date to report.
"and ENDING Compliance date:"	Enter the ending compliance date to report.
"DEVICE: HOME//"	Enter the output device, either a workstation screen or a printer.

Table 3-10: Patch Statistics By Compliance Date option—prompts and description of each

See output example on the next page.

Patch Statistics By Compliance Date Output example:

FEB 29,2004		Patch Statistical Report for DUBLIN, GA.			Page: 1
By Compliance Date		Date range: FEB 1,2004 to FEB 29,2004			
Compliance Date	Patch Number	Release Date	Install Date	Priority	# Days Delinquent
FEB 27,2004	DI*22*123	JAN 27,2004	JAN 30,2004	Mandatory	
FEB 12,2004	XT*7.3*75	JAN 12,2004	JAN 14,2004	Mandatory	
FEB 22,2004	XT*7.3*68	JAN 22,2004	JAN 29,2004	Mandatory	
FEB 11,2004	XU*8*335	FEB 9,2004	FEB 11,2004	Emergency	
FEB 13,2004	XU*8*270	JAN 13,2004	JAN 14,2004	Mandatory	
FEB 13,2004	XU*8*294	JAN 13,2004	JAN 14,2004	Mandatory	
Totals patches received for date range: 6					
Total patches installed past compliance date: 0					
Delinquent patch % : 0.00 %					
Compliance % : 100.00 %					

**Figure 3-10: Patch Statistics By Compliance Date option—output**

Patch Monitor Management	[XTPM PATCH MANAGEMENT]
--------------------------	-------------------------

This menu has the management options for the application.

```
Select Patch Monitor Management Option: 3 <Enter> Patch Monitor Management

 1      Edit the Patch Monitor Parameter File [XTPM EDIT PATCH MONITOR PARAMS]
 2      Rerun the Nightly Patch Monitor [XTPM RERUN NIGHTLY]
        **> Locked with XTPM PATCH MONITOR MGR

Select Patch Monitor Management Option:
```

**Figure 3-11: Patch Monitor Management menu**

Edit the Patch Monitor Parameter File	[XTPM EDIT PATCH MONITOR PARAMS]
---------------------------------------	----------------------------------

This option allows the package manager to edit various parameters that control parts of this package. Each is described below.

Table 3-11 lists the prompts used for interacting with this option along with a description of each.

Prompt	Description
"Select PATCH MONITOR PARAMETER SITE NAME:"	Enter the name of your facility. This is a free-text entry of up to 35 characters.
"Select MAIL GROUPS:"	Enter the mail group or groups that will receive the daily monitor bulletins about uninstalled patches. These are <i>not</i> the groups to receive the delinquent patch bulletins. This field points to the MAIL GROUP file (#3.8) and all groups entered here must already exist in the MAIL GROUP file (#3.8).
"NUMBER OF DAYS TO KEEP DATA:"	Enter the number of days to keep completed patch data on file. This field is overridden by the field "Delete installed patches." If the field is "Delete Installed Patches" is YES then any number entered in this field is ignored. If the field "Delete Installed Patches" is NO then data will retained for the amount of days entered here. If no value is entered, 30 days are automatically kept. See note below explaining data retention.
"DELETE INSTALLED PATCHES?:"	Enter Y to allow the nightly job to delete all installed patches if they are completed or N to retain them the number of days specified in the field "Number of days to keep data." This field overrides that field. If this field is NO the number of days of patches are kept is determined by the field "Number of Days to Keep Data," or 30 days is kept if no there is no entry in the field. See note below.

**Table 3-11: Edit the Patch Monitor Parameter File option—prompts and description of each**



## Explanatory Note About Data Retention

It is entirely up to a site whether or not patch installation data is retained for statistical reporting purposes. A site may wish to retain data and have a full compliment of reporting for statistics on past periods or it may wish to simply keep up with the current patching scenario and only make sure patches are installed on a timely basis and nothing more.

The site should weigh this decision carefully so as not to delete data unless it realizes the ramifications of it.

<b>Rerun the Nightly Patch Monitor</b>	<b>[XTPM RERUN NIGHTLY]</b>
--	-----------------------------

This option is the user version of the regular nightly job. It is used to rerun a failed job or it may be run at any time that is deemed necessary. It will update all patch installation information and produce a bulletin sent to designated mail groups. Any reports may then be run with the confidence that they will be up to date.

This manual option is locked with the XTPM PATCH MONITOR MGR security key

There are no prompts and no output.



## Chapter 4: Setting Up a New Installation or Recovering Patches

When a site installs the patch monitor for the first time, it may wish to go back and have past patches entered into the PATCH MONITOR file (#9.9). In addition, a site may wish to recover patches for some reason. This is easily accomplished.

A user who receives patches on a regular basis and who has **VistA MailMan** patches on file for the time period desired, may simply forward the patches (any range or number) to the server option **S.XTPM PATCH SERVER**. The following example assumes the user is familiar with the VistA Mailman.

1. Identify the patches to be sent to the file by their sequence number in the **VistA MailMan**.
2. Use the **Forward** command to send the range of messages. Example: 1-5,6,7,10-20,23,5,31. At the “**and send to:**” prompt, enter **S.XTPM PATCH SERVER**.

The patches process at a very fast rate and will appear in the file in a few moments.

If a user recovers patches in this manner, it should be understood that:

1. This should be done during a work day.
2. KIDS patches will be processed in the normal fashion when the nightly job runs.



**Important!! Non-KIDS patches must be completed manually before the nightly job runs or they will be reported as delinquent and cause confusion.**



# Chapter 5: Implementation and Maintenance (Technical Manual Information)

Kernel Toolkit Patch XT\*7.3\*98 is a Kernel Installation and Distribution System (KIDS) software release.



For installation and site setup instructions, see the VistA Patch Monitor, Kernel Toolkit Patch XT\*7.3\*98 located on the VistA Documentation Library at:

<http://www.va.gov/vdl/Infrastructure.asp?appID=12>

## Software Dependencies

Kernel Toolkit Patch XT\*7.3\*98 requires a standard VistA operating environment in order to function correctly. Check your VistA environment for software and versions installed.

## Scheduled Options/Background Jobs

<b>Option Name</b>	XTPM NIGHTLY PATCH MONITOR
<b>Menu Text</b>	Nightly Patch Monitor
<b>Description</b>	This option is the user version of the regular nightly job. It is used to rerun a failed job or it may be run at any time that is deemed necessary, It will update all patch installation information and produce a bulletin sent to designated mail groups. Any reports may then be run with the confidence that they will be totally up to date. Recommended scheduling frequency is daily (1D at 05:00 – weekdays at 5 AM). This manual option is locked with the XTPM PATCH MONITOR MGR security key. Personnel scheduling the XTPM NIGHTLY PATCH MONITOR option must have the XTPM PATCH MONITOR MGR security key or the option will not run. There are no prompts and no output.

**Table 5-1: Scheduled background job—XTPM NIGHTLY PATCH MONITOR**

<b>Option Name</b>	XTPM UNINSTALLED PATCH BULLETI
<b>Menu Text</b>	Uninstalled Patch Bulletin
<b>Description</b>	This is a run routine option that creates a daily bulletin for IRM to keep up-to-date on uninstalled patches. Recommended scheduling frequency is daily (i.e., D@0800 -- weekdays at 8 AM). <b>NOTE:</b> If there are no uninstalled patches, no bulletin will be sent.

**Table 5-2: Scheduled background job—XTPM UNINSTALLED PATCH BULLETI**

## Routines

The following routines are exported with Kernel Toolkit Patch XT\*7.3\*98 in the XTPM namespace:

- XTPMKPCF—Computed fields and other oddities for Patch Monitor
- XTPMKPP—Patch Monitor purging.
- XTPMKPTC—Patch Monitor functions
- XTPMNEX7—Patches due in next 7 days
- XTPMSTA2—Print patch statistics by compliance date
- XTPMSTAT—Print patch statistics by report group

Second line of all routines looks like this:

```
::7.3;TOOLKIT;**98**; Apr 25, 1995
```

## Data Dictionaries Exported with XT\*7.3\*98 for New VistA Files

VistA File and Number	Global Location	Data?												
PATCH MONITOR (#9.9)	^XPD(9.9)	No												
<p>STANDARD DATA DICTIONARY #9.9 -- PATCH MONITOR FILE</p> <p style="text-align: right;">AUG 26,2005@19:55:10 PAGE 1</p> <p>STORED IN ^XPD(9.9, (57 ENTRIES) SITE: SF CIOFO, KERNEL PATCH ACCOUNT UCI: NXT,KDE (VERSION 7.3)</p> <table> <thead> <tr> <th>DATA ELEMENT</th> <th>NAME TITLE</th> <th>GLOBAL LOCATION</th> <th>DATA TYPE</th> </tr> </thead> <tbody> <tr> <td colspan="4">-----</td> </tr> <tr> <td colspan="4"> <p>This file contains VistA patch information which is stored by a server option when a patch arrives to G.PATCHES at a site. The server extracts certain information and stores it here.</p> <p>A night-time program will then check the file, match it against the install file. If the current date is past the compliance date for patch installation (typically 30 days for regular patches, three days for emergency patches) it will do one of two things:</p> <ol style="list-style-type: none"> <li>1. If the patch has been installed since last run and the parameter file is set in field 3 to delete installed patches, it will delete the entry from this file, regardless of the number of days in field 2. If the parameter file is set to leave patches, it is not deleted.</li> <li>2. If the patch has NOT been installed, its information will be saved and reported via a mail message to a group.</li> </ol> <p>The person(s) who are in charge of monitoring patches at the site or perhaps for the VISN will be responsible for following up on delinquent patches.</p> <p style="margin-left: 40px;">DD ACCESS: @ RD ACCESS: # WR ACCESS: @ DEL ACCESS: @ LAYGO ACCESS: @ AUDIT ACCESS: #</p> <p>CROSS REFERENCED BY: PATCH NAME(B), DATE OF RECEIPT(C), COMPLIANCE DATE(D), NON-KIDS INSTALL DATE(E)</p> <p>CREATED ON: JUL 21,2005 by TRAN,BA</p> <p>9.9,.01 PATCH NAME 0;1 FREE TEXT (Required)</p> <p>INPUT TRANSFORM: K:\$L(X)&gt;20!(\$L(X)&lt;3)!'(X'?1P.E) X LAST EDITED: JUL 21, 2005 HELP-PROMPT: Answer must be 3-20 characters in length. DESCRIPTION: This is the name of the patch as it comes in the mail message.</p> <p style="margin-left: 40px;">Examples: RMIM*1*1 DG*5.3*211</p> <p>CROSS-REFERENCE: 9.9^B 1)= S ^XPD(9.9,"B", \$E(X,1,30),DA)=" " 2)= K ^XPD(9.9,"B", \$E(X,1,30),DA)</p> </td> </tr> </tbody> </table>			DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE	-----				<p>This file contains VistA patch information which is stored by a server option when a patch arrives to G.PATCHES at a site. The server extracts certain information and stores it here.</p> <p>A night-time program will then check the file, match it against the install file. If the current date is past the compliance date for patch installation (typically 30 days for regular patches, three days for emergency patches) it will do one of two things:</p> <ol style="list-style-type: none"> <li>1. If the patch has been installed since last run and the parameter file is set in field 3 to delete installed patches, it will delete the entry from this file, regardless of the number of days in field 2. If the parameter file is set to leave patches, it is not deleted.</li> <li>2. If the patch has NOT been installed, its information will be saved and reported via a mail message to a group.</li> </ol> <p>The person(s) who are in charge of monitoring patches at the site or perhaps for the VISN will be responsible for following up on delinquent patches.</p> <p style="margin-left: 40px;">DD ACCESS: @ RD ACCESS: # WR ACCESS: @ DEL ACCESS: @ LAYGO ACCESS: @ AUDIT ACCESS: #</p> <p>CROSS REFERENCED BY: PATCH NAME(B), DATE OF RECEIPT(C), COMPLIANCE DATE(D), NON-KIDS INSTALL DATE(E)</p> <p>CREATED ON: JUL 21,2005 by TRAN,BA</p> <p>9.9,.01 PATCH NAME 0;1 FREE TEXT (Required)</p> <p>INPUT TRANSFORM: K:\$L(X)&gt;20!(\$L(X)&lt;3)!'(X'?1P.E) X LAST EDITED: JUL 21, 2005 HELP-PROMPT: Answer must be 3-20 characters in length. DESCRIPTION: This is the name of the patch as it comes in the mail message.</p> <p style="margin-left: 40px;">Examples: RMIM*1*1 DG*5.3*211</p> <p>CROSS-REFERENCE: 9.9^B 1)= S ^XPD(9.9,"B", \$E(X,1,30),DA)=" " 2)= K ^XPD(9.9,"B", \$E(X,1,30),DA)</p>			
DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE											
-----														
<p>This file contains VistA patch information which is stored by a server option when a patch arrives to G.PATCHES at a site. The server extracts certain information and stores it here.</p> <p>A night-time program will then check the file, match it against the install file. If the current date is past the compliance date for patch installation (typically 30 days for regular patches, three days for emergency patches) it will do one of two things:</p> <ol style="list-style-type: none"> <li>1. If the patch has been installed since last run and the parameter file is set in field 3 to delete installed patches, it will delete the entry from this file, regardless of the number of days in field 2. If the parameter file is set to leave patches, it is not deleted.</li> <li>2. If the patch has NOT been installed, its information will be saved and reported via a mail message to a group.</li> </ol> <p>The person(s) who are in charge of monitoring patches at the site or perhaps for the VISN will be responsible for following up on delinquent patches.</p> <p style="margin-left: 40px;">DD ACCESS: @ RD ACCESS: # WR ACCESS: @ DEL ACCESS: @ LAYGO ACCESS: @ AUDIT ACCESS: #</p> <p>CROSS REFERENCED BY: PATCH NAME(B), DATE OF RECEIPT(C), COMPLIANCE DATE(D), NON-KIDS INSTALL DATE(E)</p> <p>CREATED ON: JUL 21,2005 by TRAN,BA</p> <p>9.9,.01 PATCH NAME 0;1 FREE TEXT (Required)</p> <p>INPUT TRANSFORM: K:\$L(X)&gt;20!(\$L(X)&lt;3)!'(X'?1P.E) X LAST EDITED: JUL 21, 2005 HELP-PROMPT: Answer must be 3-20 characters in length. DESCRIPTION: This is the name of the patch as it comes in the mail message.</p> <p style="margin-left: 40px;">Examples: RMIM*1*1 DG*5.3*211</p> <p>CROSS-REFERENCE: 9.9^B 1)= S ^XPD(9.9,"B", \$E(X,1,30),DA)=" " 2)= K ^XPD(9.9,"B", \$E(X,1,30),DA)</p>														



	<p>INPUT TRANSFORM: K:\$L(X)&gt;50!(\$L(X)&lt;3) X  LAST EDITED: JUL 21, 2005  HELP-PROMPT: Answer must be 3-50 characters in length.  DESCRIPTION: This is the subject of the patch.</p>
9.9,7	<p>INSTALL NAME 0;8 FREE TEXT</p> <p>INPUT TRANSFORM: K:\$L(X)&gt;35!(\$L(X)&lt;3) X  LAST EDITED: JUL 21, 2005  HELP-PROMPT: Answer must be 3-35 characters in length.  DESCRIPTION: The installation information may or may not be in the INSTALL file for a patch. This may be because of:</p> <ul style="list-style-type: none"> <li>a. The package is new and may not yet be loaded but already has patches issued.</li> <li>b. The patch is a non-kids patch for executables, etc.</li> </ul>
9.9,8	<p>COMPLIANCE DATE 0;9 DATE</p> <p>INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y&lt;1 X  LAST EDITED: JUL 21, 2005  HELP-PROMPT: This is the date the patch must be installed by.  DESCRIPTION: This is the date by which the patch must be installed.</p> <p>CROSS-REFERENCE: 9.9^D  1)= S ^XPD(9.9,"D", \$E(X,1,30),DA)=""  2)= K ^XPD(9.9,"D", \$E(X,1,30),DA)  Index by Compliance Date.</p>
9.9,9	<p>DATE INSTALLED ; COMPUTED</p> <p>MUMPS CODE: D ^XTPMKPCF  ALGORITHM: D ^XTPMKPCF  LAST EDITED: AUG 02, 2005  DESCRIPTION: This is a computed field, driven by a mumps routine AWBCKPCF. This is a special routine to calculate the date installed from the INSTALL file. It reads the index backwards to find the last installed version by taking the \$O(^XPD(9.7,"B",[INSTALL NAME],999999999),-1)</p> <p>This is done because there may be several test versions on file in INSTALL file which may affect the true installation date determination</p>
9.9,10	<p>INSTALLED BY ; COMPUTED</p> <p>MUMPS CODE: D WHO^XTPMKPCF  ALGORITHM: D WHO^XTPMKPCF  LAST EDITED: AUG 02, 2005  DESCRIPTION: This is a computed field driven also by the routine AWBCKPCF at entry point WHO. It tells</p>

		who installed the patch.
9.9,11	NON-KIDS PATCH?	0;10 SET
	LAST EDITED:	'1' FOR YES; JUL 21, 2005
	HELP-PROMPT:	Enter 1 if a Non-KIDS patch.
	DESCRIPTION:	This field determines what happens in various areas of the package. A patch can be KIDS or non-KIDS. The data on a patch record can be either NULL (KIDS patch) or 1 (Non-KIDS patch).  The field can actually be only set to a 1 or the information deleted (NULL).
9.9,12	NON-KIDS INSTALL DATE	0;11 DATE
	INPUT TRANSFORM:	S %DT="EX" D ^%DT S X=Y K:Y<1 X
	LAST EDITED:	JUL 21, 2005
	HELP-PROMPT:	Enter the date this NON-KIDS patch was completed.
	DESCRIPTION:	Non-KIDS patches are those which do not have an accompanying KIDS install in the Packman message because: <ul style="list-style-type: none"> <li>o It may have an accompanying host file (too large for a mail message) or</li> <li>o It may be a patch message referring to a .zip, .exe or other file which will not put an entry into the INSTALL file.</li> </ul> Because of this, there is no install record to extract the install date and it must be entered (i.e., completed) by filling in this field.
	CROSS-REFERENCE:	9.9^E 1)= S ^XPD(9.9,"E",\$(X,1,30),DA)="" 2)= K ^XPD(9.9,"E",\$(X,1,30),DA) Index by Non-Kids Install Date.
9.9,13	NON-KIDS PATCH COMPLETED BY	0;12 POINTER TO NEW PERSON FILE (#200 )
	LAST EDITED:	JUL 21, 2005
	HELP-PROMPT:	This is the name of the person who completed the non-KIDS patch.
	DESCRIPTION:	This is a pointer to file 200 to record who completed the non-KIDS patch.
	FILES POINTED TO	FIELDS
	NEW PERSON (#200)	NON-KIDS PATCH COMPLETED BY (#13)
	INPUT TEMPLATE(S):	



```

XTPM COMPLETE NON-KIDS PATCH JUL 21, 2005@06:43 USER #0
XTPM EDIT PATCH JUL 21, 2005@07:57 USER #0

PRINT TEMPLATE(S):
CAPTIONED USER #0
XTPM COMPLETE PATCH HISTORY JUL 21, 2005@08:06 USER #0
COMPLETE PATCH INSTALLATION HISTORY
XTPM UNINSTALLED BY COMPLIANCEJUL 21, 2005@09:30 USER #0
UNINSTALLED PATCHES BY COMPLIANCE DATE

SORT TEMPLATE(S):
XTPM COMPLETE PATCH HISTORY JUL 21, 2005@08:02 USER #0
SORT BY: @COMPLIANCE DATE;S1// (COMPLIANCE DATE not null)
WITHIN COMPLIANCE DATE, SORT BY: PATCH NAME// (PATCH NAME not null)
Prints a complete patch installation history.

XTPM UNINSTALLED BY COMPLIANCEJUL 21, 2005@09:27 USER #0
SORT BY: @COMPLIANCE DATE;S// (COMPLIANCE DATE from Jan 1,1901 to Dec 31,2499@24
:00)
WITHIN COMPLIANCE DATE, SORT BY: PATCH NAME// (PATCH NAME not null)
WITHIN PATCH NAME, SORT BY: $$ (NON-KIDS PATCH?="YES":NON-KIDS INSTALL DATE,1
:DATE INSTALLED)="";L1// ($S(NON-KIDS PATCH?="YES":NON-KIDS INSTALL DATE,1:DAT
E INSTALLED)="")
Uninstalled patches by compliance date.

FORM(S)/BLOCK(S):

```

**Table 5-3: Data dictionary (new PATCH MONITOR file #9.9)**

Vista File and Number	Global Location	Data?
PATCH MONITOR PARAMETER (#9.95)	^XPD(9.95	No
<pre> STANDARD DATA DICTIONARY #9.95 -- PATCH MONITOR PARAMETER FILE                                 AUG 26,2005@19:55:25 PAGE 1 STORED IN ^XPD(9.95, (2 ENTRIES) SITE: SF CIOFO, KERNEL PATCH ACCOUNT UCI: NXT,KDE (VERSION 7.3)  DATA          NAME          GLOBAL          DATA ELEMENT       TITLE         LOCATION       TYPE ----- This is the parameter file that controls certain functions of the Patch Monitor software:      .01          SITE NAME     1            MAIL GROUPS (multiple)     2            NUMBER OF DAYS TO KEEP DATA     3            DELETE INSTALLED PATCHES?  Site name: Free text name of the facility.  Mail groups: groups that wish to receive the uninstalled bulletin.  Number of days to keep data: number of days to allow data to remain, provided field 3 is answered NO. If field 3 is answered YES, this field is ignored.  Delete installed patches? - YES allows the nightly job to remove patches shown as installed. NO does not remove them. If this field is answered YES, field 2 is ignored.                  DD ACCESS: @                 RD ACCESS: #                 WR ACCESS: @                 DEL ACCESS: @                 LAYGO ACCESS: @                 AUDIT ACCESS: #  CROSS REFERENCED BY: SITE NAME(B)          CREATED ON: JUL 21,2005 by TRAN,BA  9.95,.01      SITE NAME          0;1 FREE TEXT (Required)                  INPUT TRANSFORM: K:\$L(X)&gt;30!(\$L(X)&lt;3)!'(X'?1P.E) X                 LAST EDITED:     JUL 21, 2005                 HELP-PROMPT:     Enter the name of your site.                 DESCRIPTION:     The free text name of the facility that is                                 tracking the patches.                  CROSS-REFERENCE: 9.95^B                                 1)= S ^XPD(9.95,"B", \$E(X,1,30),DA)="                                 2)= K ^XPD(9.95,"B", \$E(X,1,30),DA)  9.95,1        MAIL GROUPS        1;0 POINTER Multiple #9.951                  DESCRIPTION:     This is a multiple field that has all the mail                                 groups you wish to send an uninstalled patch                                 bulletin to. </pre>		

9.951,.01	MAIL GROUPS	0;1 POINTER TO MAIL GROUP FILE (#3.8) (Multiply asked)
	LAST EDITED:	JUL 21, 2005
	DESCRIPTION:	The name of a mail group that wishes to receive uninstalled patch bulletins.
	CROSS-REFERENCE:	9.951^B 1)= S ^XPD(9.95,DA(1),1,"B",SE(X,1,30),DA)=" " 2)= K ^XPD(9.95,DA(1),1,"B",SE(X,1,30),DA)
9.95,2	NUMBER OF DAYS TO KEEP DATA	0;2 NUMBER
	INPUT TRANSFORM:	K:+X'=X!(X>99999)!(X<7)!(X?.E1"."1N.N) X
	LAST EDITED:	JUL 21, 2005
	HELP-PROMPT:	Enter a number from 7 to 99999 for the number of days to keep data, if you are not deleting when patches are installed.
	DESCRIPTION:	If the site wishes to keep the data recording patch installations on file, this field keeps the number of days the site wishes to keep on file. This field is not used if field 3, DELETE INSTALLED PATCHES? is answered 1 or YES.
9.95,3	DELETE INSTALLED PATCHES?	0;3 SET
		'0' FOR No; '1' FOR Yes;
	LAST EDITED:	JUL 21, 2005
	HELP-PROMPT:	Enter 1 or YES to allow the night-time job to remove installed patches, or 0 or NO to leave them for future tracking.
	DESCRIPTION:	If the site wishes, patches that are installed may be deleted by the night time job. This is only if they wish NOT to track timely installation.  If this field is answered 1 or YES, field 2, NUMBER OF DAYS TO KEEP DATA is ignored.
9.95,4	REPORTING GROUP	2;0 Multiple #9.954
9.954,.01	REPORTING GROUP	0;1 FREE TEXT (Multiply asked)
	INPUT TRANSFORM:	K:\$L(X)>15!(\$L(X)<3) X
	LAST EDITED:	JUL 21, 2005
	HELP-PROMPT:	Enter the name of a reporting group for statistics. [3-15 characters]
	DESCRIPTION:	Statistical reporting group name.
	CROSS-REFERENCE:	9.954^B 1)= S ^XPD(9.95,DA(1),2,"B",SE(X,1,30),DA)=" " 2)= K ^XPD(9.95,DA(1),2,"B",SE(X,1,30),DA)
9.954,1	NAME SPACE	1;0 Multiple #9.9541

9.9541,.01	NAME SPACE	0;1 FREE TEXT (Multiply asked)
	INPUT TRANSFORM:	K:\$L(X)>4!(\$L(X)<2) X D:\$D(X) PKGLOOK^XTPMKPC F
	LAST EDITED:	AUG 02, 2005
	HELP-PROMPT:	Enter the name space to report. This is cross-checked against the Package file (#9.4). [2-4 characters]
	NOTES:	XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER
	CROSS-REFERENCE:	9.9541^B 1)= S ^XPD(9.95,DA(2),2,DA(1),1,"B",\$(X,1,30), DA)=" "  2)= K ^XPD(9.95,DA(2),2,DA(1),1,"B",\$(X,1,30), DA)
	FILES POINTED TO	FIELDS
	MAIL GROUP (#3.8)	MAIL GROUPS:MAIL GROUPS (#.01)
	INPUT TEMPLATE(S):	XTPM EDIT PATCH MONITOR PARAMSJUL 21, 2005@11:46 USER #0
	PRINT TEMPLATE(S):	
	SORT TEMPLATE(S):	
	FORM(S)/BLOCK(S):	

**Table 5-4: Data dictionary (new PATCH MONITOR PARAMETER file #9.95)**

## Options Exported with Kernel Toolkit Patch XT\*7.3\*98

Option and Menu Text	Description
XTPM COMPLETE A NON-KIDS PATCH Mark a Non-Kids Patch as Complete	This option allows the completion of a non-kids patch, which is defined as not having any KIDS installs, but rather a .ZIP, .EXE, or other type patch (e.g., a DBA patch).
XTPM COMPLETE PATCH HISTORY Complete Patch Installation History	Provides a complete patch installation history.
XTPM EDIT PATCH Edit Patch Information	<p>This option will allow you to edit the fields:</p> <ul style="list-style-type: none"> <li>• COMPLIANCE DATE (#8)</li> <li>• NON-KIDS PATCH? (#11)</li> <li>• NON-KIDS INSTALL DATE (#12)</li> </ul> <p>The only fields that may be edited are ones that are not:</p> <ul style="list-style-type: none"> <li>• extracted from the patch message</li> <li>• computed fields may be edited.</li> </ul>
XTPM EDIT PATCH MONITOR PARAMS Edit the Patch Monitor Parameter File	Edits the parameter file for the Patch Monitor.
XTPM NIGHTLY PATCH MONITOR Nightly Patch Monitor	This background job is a Taskman routine that checks File #9.9 for delinquent patches. It generates a mail message to the mail group G.PATCH MONITOR.
XTPM PAST DUE PATCH REPORT Past Due Patch Report	Provides a quick report for delinquent patches for a site.
XTPM PATCH INQUIRY Patch Inquiry	Provides an inquiry from the PATCH MONITOR File (#9.9), including computed fields.
XTPM PATCH MANAGEMENT Patch Monitor Management	Patch monitor management menu.
XTPM PATCH MONITOR MAIN MENU Patch Monitor Main Menu	This is the main menu comprising all the options for the VistA Patch Monitor. This nightly job is locked with the XTPM PATCH MONITOR MGR key.
XTPM PATCH PROCESSING Patch Processing	Patch processing menu. Has all necessary to process patches.
XTPM PATCH REPORTS Patch Report	Patch monitor reporting menu.
XTPM PATCH SERVER Patch Monitor Server	This is a server option to unload patch messages into the PATCH MONITOR file (#9.9).
XTPM PATCH STATISTICS	This is a statistical report that gives information about patch installation timeliness.

Option and Menu Text	Description
Patch Statistics by Reporting Group	It is activated by setting up groups of packages to monitor in the PARAMETER file.
XTPM PATCH STATS BY COMPLIANCE Patch Statistics by Compliance Date	Prints statistics by compliance date.
XTPM PATCHES DUE NEXT 7 DAYS Patches Due in the Next Seven Days	Uninstalled patches, due within the next seven days.
XTPM RERUN NIGHTLY Rerun the Nightly Patch Monitor	This is a TaskMan routine that checks File #9.9 for delinquent patches. It generates a mail message to the mail group G.PATCH MONITOR.  This option is locked with XTPM PATCH MONITOR MGR
XTPM UNINSTALLED BY COMPLIANCE Uninstalled Patches by Compliance Date	Uninstalled patches by compliance date.
XTPM UNINSTALLED PATCH BULLETI Uninstalled Patch Bulletin	Daily bulletin for IRM to keep up-to-date on uninstalled patches.  <b>NOTE:</b> If there are no uninstalled patches, no bulletin is sent.
XTPM UNINSTALLED PATCHES Uninstalled Patch Listing - Alphabetical	Provides a list of all uninstalled patches for a site.

**Table 5-5: Options exported with Kernel Toolkit Patch XT\*7.3\*98**



```

**ENTRY ACTION:
W @IOF,!, "Edit the Patch
Monitor Parameter File",!!!!
**EXIT ACTION:
W @IOF,!!

-----2 Rerun the Nightly Patch
Monitor [XTPM RERUN NIGHTLY]
**LOCKED: XTPM PATCH MONITOR
MGR**
    
```

**Figure 5-1: Menu diagram**

## VA FileMan Templates

### Print Templates

The following print templates, including file name and number, are exported with Kernel Toolkit Patch XT\*7.3\*98:

Print Template	RD	WR	File Name and Number
XTPM COMPLETE PATCH HISTORY	@	@	PATCH MONITOR (#9.9)
XTPM UNINSTALLED BY COMPLIANCE	@	@	PATCH MONITOR (#9.9)

**Table 5-6: VA FileMan print templates exported with Kernel Toolkit Patch XT\*7.3\*98**

### Sort Templates

The following sort templates, including file name and number and description, are exported with Kernel Toolkit Patch XT\*7.3\*98:

Sort Template	RD	WR	File Name and Number	Description
XTPM COMPLETE PATCH HISTORY	@	@	PATCH MONITOR (#9.9)	SORT BY: @COMPLIANCE DATE;S1// (COMPLIANCE DATE not null) WITHIN COMPLIANCE DATE, SORT BY: PATCH NAME// (PATCH NAME not null) Prints a complete patch installation history.
XTPM UNINSTALLED BY COMPLIANCE	@	@	PATCH MONITOR (#9.9)	SORT BY: @COMPLIANCE DATE;S1// (COMPLIANCE DATE from Jan 1,1901 to Dec 31,2499@24:00) WITHIN COMPLIANCE DATE, SORT BY:



Sort Template	RD	WR	File Name and Number	Description
				PATCH NAME// (PATCH NAME not null) WITHIN PATCH NAME, SORT BY: \$\$ (NON-KIDS PATCH?="YES":NON-KIDS INSTALL DATE,1:DATE INSTALLED)="";L1// (\$\$(NON-KIDS PATCH?=""YES"":NON-KIDS INSTALL DATE,1:DATE INSTALLED)="") Uninstalled patches by compliance date.

**Table 5-7: VA FileMan sort templates exported with Kernel Toolkit Patch XT\*7.3\*98**

## Input Templates

The following input templates, including file name and number, are exported with Kernel Toolkit Patch XT\*7.3\*98:

Input Template	RD	WR	File Name and Number
XTPM COMPLETE NON-KIDS PATCH	@	@	PATCH MONITOR (#9.9)
XTPM EDIT PATCH	@	@	PATCH MONITOR (#9.9)
XTPM EDIT PATCH MONITOR PARAMS	@	@	PATCH MONITOR PARAMETER (#9.95)

**Table 5-8: VA FileMan input templates exported with Kernel Toolkit Patch XT\*7.3\*98**

## Archiving

There are no application-specific archiving procedures or recommendations for the Kernel Toolkit Patch XT\*7.3\*98.

## Callable Routines

There are no callable routines exported with Kernel Toolkit Patch XT\*7.3\*98.

## External Interfaces

There are no external interfaces exported with Kernel Toolkit Patch XT\*7.3\*98.

## Mail Groups

Mail Group Name	Description
XTPM PATCH MONITOR	This is a public mail group that receives the delinquent patch notices. Members of this group should be personnel installing patches and who use the Patch Monitor.
XTPM PATCH MONITOR USER	This is a public and unrestricted mail group. Members of this group should be personnel using the Patch Monitor.

**Table 5-9: Mail group exported with Kernel Toolkit Patch XT\*7.3\*98**



Patches are usually sent to the **G.PATCHES** mail group, which should be standard at all sites. If this mail group does not exist at a site, any mail group that receives national patches may be used.

In this mail group, a server option, **S.XTPM PATCH SERVER**, is added as a "remote user." When Mailman delivers the message, the server option receives the message, examines it line by line and extracts certain information. This message data then is stored in the **PATCH MONITOR** file (#9.9).

## External Relations

### Software Dependencies

Kernel Toolkit Patch XT\*7.3\*98 requires a standard VistA operating environment in order to function correctly. Check your VistA environment for software and versions installed.

## Internal Relations

### Namespace

Kernel Toolkit Patch XT\*7.3\*98 uses the **XTPM** and **XPD** namespaces.

## File Numbers

Kernel Toolkit Patch XT\*7.3\*98 file numbers and global locations are listed as follows:

File #	Global
9.9	^XPD(9.9
9.95	^XPD(9.95

**Table 5-10: File list**

## Software-wide Variables

Kernel Toolkit Patch XT\*7.3\*98 contains no software-wide variables.



# Software Security

## Mail Groups

There are no software-specific mail groups release with Kernel Toolkit Patch XT\*7.3\*98 of interest to Information Security Officers (ISO).

## Remote Systems

There are no remote systems involved with the release with Kernel Toolkit Patch XT\*7.3\*98.

## Archiving

There are no software-specific archiving procedures or recommendations for Kernel Toolkit Patch XT\*7.3\*98.

## Interfaces

There are no specialized (*not* VA produced) products (hardware and/or software) embedded within or required by Kernel Toolkit Patch XT\*7.3\*98.

## Electronic Signatures

There are no electronic signatures used in Kernel Toolkit Patch XT\*7.3\*98.

## Menus

There are no options of particular interest to Information Security Officers (ISOs) in Kernel Toolkit Patch XT\*7.3\*98.

## Security Key

Kernel Toolkit Patch XT\*7.3\*98 export the XTPM PATCH MONITOR MGR security key. Give the security key **XTPM PATCH MONITOR MGR** to the person designated as package manager. This key is necessary to schedule the Nightly Patch Monitor option because if the person who schedules the option does not have it, the option *will not* run

## File Security

File #	File Name	DD	RD	WR	DEL	LAYGO	AUDIT
9.9	PATCH MONITOR	@	#	@	@	@	#
9.95	PATCH MONITOR PARAMETER	@	#	@	@	@	#

**Table 5-11: File security**

# Glossary

API	VistA Application Program Interfaces (APIs) are units of programming code provided by a custodial development domain to permit developers outside the custodial domain to accomplish a specified purpose. APIs in VistA may be defined as extrinsic functions, extrinsic special variables, or label references to routines. They allow programmers to carry out standard computing activities without needing to duplicate utilities in their own software. APIs also further DBA goals of system integration by channeling activities, such as adding new users, through a limited number of callable entry points.
CAVHCS	Central Alabama Veterans Health Care System
CIO	Chief Information Office
Class III Software	VistA software that is not released nationally through Enterprise VistA Support (EVS) and not publicly available through the Freedom of Information Act (FOIA).
DaIS	Development & Infrastructure Support
Data Dictionary (DD)	<p>The Data Dictionary is a global containing a description of what kind of data is stored in the global corresponding to a particular file. The data is used internally by VA FileMan for interpreting and processing files.</p> <p>A Data Dictionary contains the definitions of a file's elements (fields or data attributes), relationships to other files, and structure or design. Users generally review the definitions of a file's elements or data attributes; programmers review the definitions of a file's internal structure.</p>
EVS	Enterprise VistA Support
FORUM	The central E-mail system within VistA. It is used by developers to communicate at a national level about programming and other issues. FORUM is located at the Chief Information Office (CIO) Field Office—Washington, DC (162-2).
FTP	File Transfer Protocol
HSD&D	Health Systems Design & Development
HSITES	Health Systems Implementation Training and Enterprise Support
IEN	Internal Entry Number
ISS	Infrastructure & Security Services
Kernel	Set of VistA software routines that function as an intermediary between the host operating system and the VistA application packages such as Laboratory, Pharmacy, etc. The Kernel provides a standard and consistent user and programmer interface between application packages and the underlying M implementation.

## Glossary

KIDS	Kernel Installation and Distribution System
M (ANSI Standard)	A programming language recognized by the American National Standards Institute (ANSI). The acronym M (formerly MUMPS) stands for Massachusetts General Hospital Utility Multi-programming System.
MailMan	VistA software that provides a mechanism for handling electronic communication, whether it's user-oriented mail messages, automatic firing of bulletins or initiation of server-handled data transmissions.
Namespacing	Convention for naming VistA package elements. The database administrator (DBA) assigns unique character strings for package developers to use in naming routines, options, and other package elements so that packages may coexist. The DBA also assigns a separate range of file numbers to each package.
OIFO	Office of Information Field Office
Option	An entry in the OPTION file (#19). As an item on a menu, an option provides an opportunity for users to select it, thereby invoking the associated computing activity. Options may also be scheduled to run in the background, non-interactively, by Task Manager.
OS	Operating System
Programmer Access	Programmer access in VistA is defined as DUZ(0)="@." It grants the privilege to become a programmer in VistA. Referred to as "having the at-sign ('@')" because the at-sign is the DUZ(0) value that grants programmer access. Programmer access allows you to work outside many of the security controls enforced by the XUPROGMode Security key, enables access to all VA FileMan files, access to modify data dictionaries, etc. It is important to proceed with caution when having access to the system in this way.
Routine	Program or a sequence of instructions called by a program that may have some general or frequent use. M (previously referred to as MUMPS) routines are groups of program lines, which are saved, loaded, and called as a single unit via a specific name.
SDD	Software Design Document
Security Key	The purpose of Security Keys is to set a layer of protection on the range of computing capabilities available with a particular software package. The availability of options is based on the level of system access granted to each user.
Servant Site	Servant Sites receive the MailMan messages containing patch installations sent by the Master Site for remote automated installation.
SRS	Software Requirements Specification
TCP/IP	Transmission Control Protocol/Internet Protocol



Template	Means of storing report formats, data entry formats, and sorted entry sequences. A template is a permanent place to store selected fields for use later. Edit sequences are stored in the INPUT TEMPLATE file (#.402), print specifications are stored in the PRINT TEMPLATE file (#.4), and search or sort specifications are stored in the SORT TEMPLATE file (#.401).
VA	The Department of Veterans Affairs, formerly called the Veterans Administration.
VAMC	Veterans Affairs Medical Center
VAPU	VistA Auto Patch Utility
Variable	Character or group of characters, that refers to a value. M (previously referred to as MUMPS) recognizes three types of variables: local variables, global variables, and special variables. Local variables exist in a partition of main memory and disappear at sign-off. A global variable is stored on disk, potentially available to any user. Global variables usually exist as parts of global arrays. The term "global" may refer to either a global variable or a global array. A special variable is defined by systems operations (e.g., \$TEST).
VHA	Veterans Health Administration
VISN	Veterans Integrated Service Network
VistA	Veterans Health Information Systems and Technology Architecture (VistA) of the Veterans Health Administration (VHA), Department of Veterans Affairs (VA). VistA software, developed by VA, is used to support clinical and administrative functions at VA Medical Centers nationwide. It is written in M, and, via the Kernel runs on all major M implementations regardless of vendor. VistA is composed of packages, which undergo a verification process to ensure conformity with namespacing and other VistA standards and conventions.
VistA Auto Patch Utility (VAPU)	Class III software developed in response to the VHA VistA Challenge, reclassified as Class I and released nationally as Kernel Patch XU*8*345. The VistA Auto Patch Utility software automates the Kernel Installation and Distribution System (KIDS) installation steps, giving the VAMCs the ability to automate patch installations.

### VistA Patch Monitor

The VistA Patch Monitor is a package designed to assist package support and management personnel in keeping up with VistA patch requirements. It monitors patches as they arrive in the VistA MailMan, records pertinent data and then monitors them on a daily basis through automated processing.

This package will track only patches that are released from the National Patch Module on Forum. It will not track Class III patches, test patches or hand-entered patches from other sources due to its link with the KIDS INSTALL file (#9.7).

Package support and management personnel have a various reporting programs they may use on a daily basis, as well as automatic daily options which report anything from past due to uninstalled patches.



For a comprehensive list of commonly used infrastructure- and security-related terms and definitions, please visit the ISS Glossary Web page at the following Web address:

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

For a list of commonly used acronyms, please visit the ISS Acronyms Web site at the following Web address:

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

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